VOLUME 1 of 2

094073

Geophysical, Geochemical and Diamond Drilling Assessment Report for the Val, Vera and Rusty Claims Mayo Mining District, Yukon Territory.

Manson Creek Resources Ltd.

This report has been examined by the Geological Evaluation Unit under Section 53 (3) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 290,500.00.

M.B.

for Regional Manager, Exploration and Geological Services for Commissioner Yukon Territory.

Volume 1

Geophysical, Geochemical and Diamond Drilling Assessment Report for the Val, Vera and Rusty Claims Mayo Mining District, Yukon Territory.

Manson Creek Resources Ltd.

Work Performed During the Period: June 7, 1999 to July 30, 1999

Val, Vera, Rusty Claim Block centred at
Latitude 64 18' 30" N
Longitude 134 44' W
(Rusty Mountain)
NTS Sheets 106 C 4,5

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January 2000

MCK-YK-01

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Summary

Mobilization into the project was started on June 7 and the de-mobilization was on July 30, 1999. During the 54 day run time of the 1999 program the following activities were completed.

1. Val Claims-20.35 km of linecutting, Vera Claims-6.65 km of linecutting
2. Val Claims – 27.43 km of Real Section IP including detailed work.
3. Vera Claims – 10.03 km of Real Section IP including detailed work.
4. Val Claims – 5 Diamond Drill Holes for 767.5 m
5. Vera Claims – 2 Diamond Drill Holes for 219.3 m
6. 45 Rock samples were collected.
7. 15 Stream sediment samples.
8. 11 Soil samples.

The Real Section IP was conducted prior to initiating drilling operations. The drill was moved on to the first location (VA99-01) on July 6 and was returned to the Rackla airstrip upon conclusion of drilling (July 28). None of the drill holes completed (VA99-01, VA99-02, VA99-03, VA99-04, VE99-01 and VE99-02 intersected what could be considered economic mineralization.

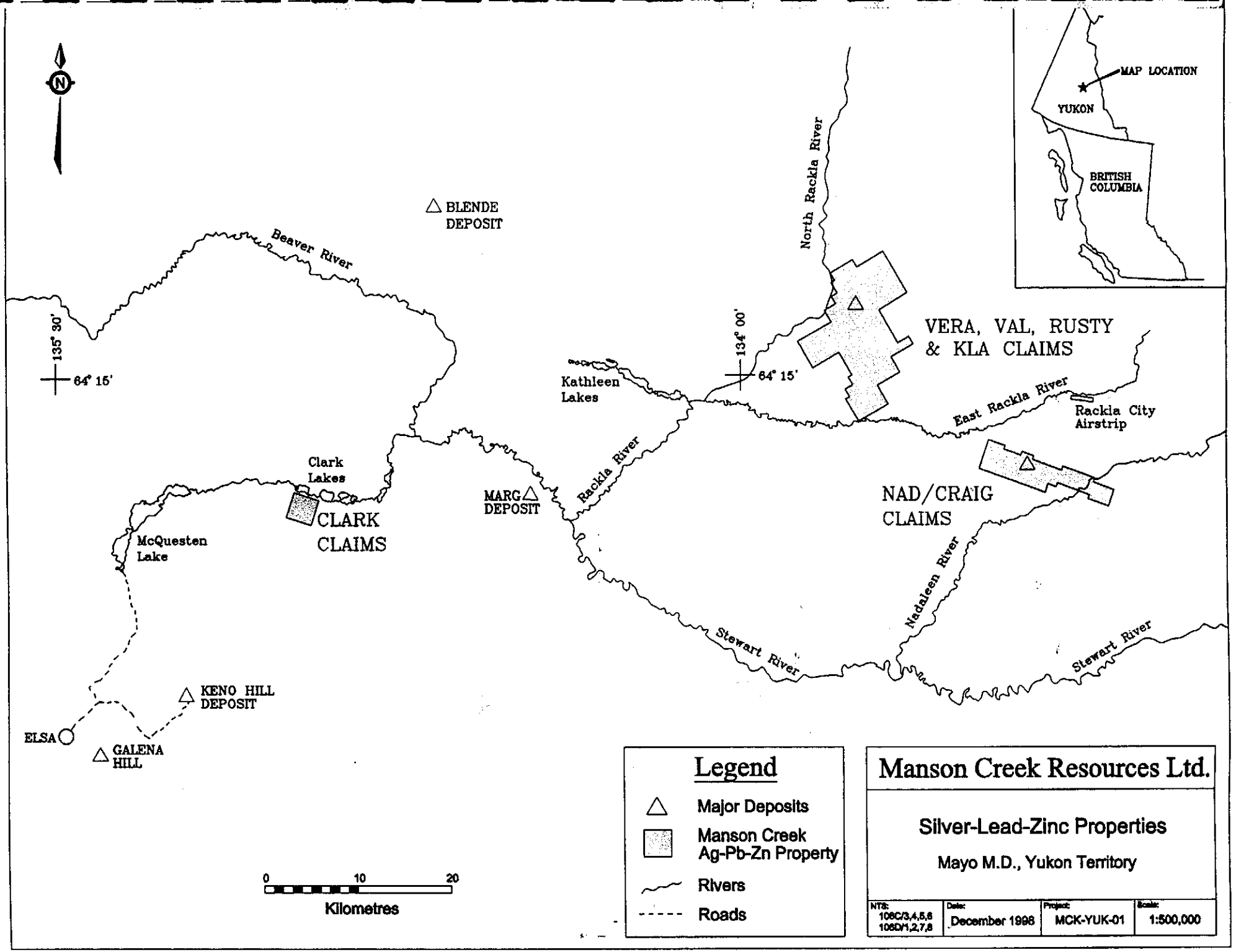
Section 1.0

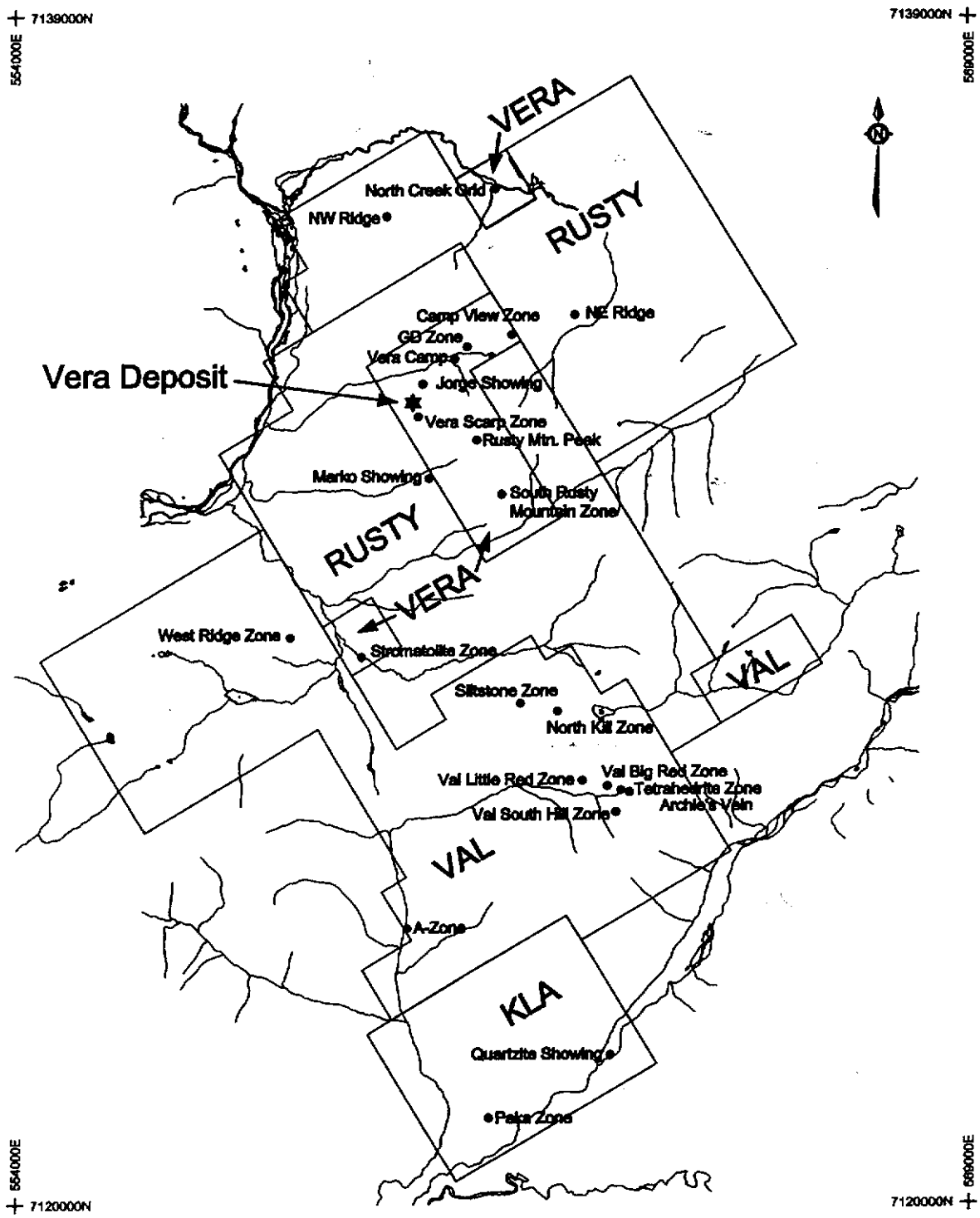
1.1 Introduction

This report is a compilation of the work carried out on the Val and Vera Claim blocks in follow up to the Induced Polarization surveys, geochemical and mapping projects done on the claims in 1998. The target of exploration is Ag-Pb-Zn mineralization in a sequence of carbonate, sedimentary, volcanic and intrusive rocks of Proterozoic (Hadrynian) to Mesozoic age.
Previous exploration outlined the Vera Deposit which totals 935,770 tons grading 8.96 ounces per ton silver, 1.81% lead and 1.89% zinc. The Vera Deposit is held by Prism Resources Inc. and Manson Creek Resources has an option to earn 50% by the year 2001.

1.2 Claim Access and Location

The Val, Vera, KLA and Rusty claims are one contiguous block which are centred on Rusty Mountain in the Wernecke Mountain area of the Yukon Territory. The Rackla City Camp, situated at latitude 64 13' 18" N and 133 13' 02" W just on the south bank of the east Rackla River, has served as the base camp for exploration in 1998 and 1999. There is a 3500 foot airstrip at the camp. Groceries, personnel and camp supplies were expedited out of Whitehorse using Speedy Expediting and Summit Air. The helicopter was on site and was used to access the claims from camp. The closest town with an airbase and nursing station is Mayo, 130 km to the southwest. The office of the Nacho Nyak Dun (NND) and the Mining Recorder's office are located in Mayo.


N
MAP LOCATION
YUKON
BRITISH COLUMBIA
BLENDE DEPOSIT
Beaver River
North Rackla River
135° 30'
64° 15'
134° 00'
64° 15'
VERA, VAL, RUSTY & KLA CLAIMS
Kathleen Lakes
East Rackla River
Rackla City Airstrip
Clark Lakes
MARG DEPOSIT
Rackla River
CLARK CLAIMS
NAD/CRAIG CLAIMS
McQuesten Lake
Nadaleen River
Stewart River
Stewart River
KENO HILL DEPOSIT
ELSA
GALENA HILL
0
10
20
Kilometres
Legend
Major Deposits
Manson Creek Ag-Pb-Zn Property
Rivers
Roads
Manson Creek Resources Ltd.
Silver-Lead-Zinc Properties
Mayo M.D., Yukon Territory
NTS: 106C/3,4,5,6 106D/1,2,7,8
Date: December 1998
Project: MCK-YUK-01
Scale: 1:500,000



Scale 1:100,000

0 1000 2000

Metres

LEGEND

- Deposit
- Occurrence/Showing

Manson Creek Resources Ltd.

Vera, Val, Rusty & KLA Claims

NTS: 105C/4,5	Date: December 1998
Scale: 1:100,000	Project Code: MCK-YUK-01

UTM Grid Based on NAD 27

1.3 Claim Status and Ownership

Each claim is 1500 feet square or approximately 457 metres square. Renewal fees are $5.00 per claim per year and work assessment due is $100.00 per claim per year. The Tables of Claim Name, Grant Number and Anniversary dates are found in Appendix I. See "Vera, Val, Rusty and KLA Claims Location Map" at 1:50,000 scale in back pocket.

1.4 Exploration History

Prism Resources Ltd. started a program of silver-lead-zinc exploration in the Rusty Mountain-Nadaleen River area in 1977 after the discovery of the spectacular mineralization McIntyre mines had found on the Nadaleen Range in 1976, now the Craig Deposit. The Vera silver-lead-zinc deposit was found in 1977. The Prism Joint Venture (1977) was formed and originally comprised of Prism Resources Ltd., Asamera Oil Corp. Canex Placer Limited, and Siebens Oil and Gas Ltd. Exploration by the Prism Joint Venture continued every year until 1982. Canex Placer was replaced by E&B Explorations Ltd. in 1978, and Dome Petroleum replaced Siebens Oil and gas in 1979. Prism was the operator of the Joint Venture. Exploration was also carried out in 1984, 1985 and 1988. By 1979 work was concentrated on the BLUE LITE, DEE, VAL, VERA and ZAP claims. Work consisted of regional and detailed mapping, prospecting, soil and stream sediment geochemical surveys, geophysical surveys, trenching, underground exploration drilling and metallurgical testing. Expenditures totaled approximately $6.5 million.

Zones of mineralization discovered during 1979 on the Val Claims included the South Hill Zone and the Big Red Zone. In 1980 the Silstone zone was discovered in clastic rocks previously thought to be barren. A total of 550 m of drilling had been done on the Vera Main zone and the South Hill by 1980. Drill indicated reserves were estimated at 935,000 tons grading 8.93 oz/ton Ag, 1.8% Pb, and 1.9% Zn.

In 1981 a major underground exploration program was conducted on the Vera Main Zone. A total of 582 m of drifting and crosscutting were completed, along with 1152 m of surface drilling in ten holes, and 545.34 m of underground drilling. The underground program was planned and supervised by E and B personnel, the camp and surface program were run by Prism employees.

By 1982 the price of silver was dropping rapidly and the only work done in June of 1982 was the mapping, soil sampling and trenching of the South Rusty Mountain showing. At the end of June 1982 the camp was closed and winterized and the exploration staff laid off.

In 1984 the South Rusty Mountain Zone was drilled and the Vera main zone was tested down to the 150 m level.

The 1985 program consisted of prospecting, sampling, geochemical investigation and trenching of several showings including the Camp View, Creek Grid, Siltstone and G.D. showings. Sixteen holes were drilled on the Val-Big Red showing totalling 1,113 m.

No exploration work was carried out in 1986-87.

In 1988 a drill program consisting of 12 holes for 1,479 m of drilling and 2,324 cubic meters of bulldozer trenching were completed. Three holes were completed on the South

Rusty Mountain Showing, four on the Camp View Zone, three immediately east of the Little Red Zone, and two on the PIKA showing (Waugh, 1989). All twelve holes were poorly mineralized. Extensive trenching was conducted on the Camp View Grid and Val West Ridge showing. No significant results were reported from trench work.
Exploration was resumed in 1998 by Manson Creek Resources Ltd. of Calgary. The Manson Creek crew carried out an extensive stream sediment sampling program over the Val, Vera and Rusty claim blocks. The Vera grid was re-established and, mapped and prospected. The Val Grid was mapped and prospected. Induced Polarization Surveys were done over the Vera vein, Big Red Zone and Little Red Zone. Coloured air photos were produced for the properties and Landsat data was obtained in map and digital form.

1.5 Regional Geology

The two government mapsheets which cover the claim group are:

1 Nadaleen River Sheet 106 C G.S.C. OF 205, June 1974 by S. Blusson at 1:250,000 scale.
2 Nash Creek Sheet 106 D Map 1282A, Published in 1972. Mapped in 1961 by L.H. Green and J.A. Roddick also at 1:250,000 scale.

These two mapsheets do not match up well as there is a discrepancy in rock types and ages as mapped by the two geologists. The 1:250,000 scale geological map in the back of this report is derived from OF G.S.C. OF 2175 and must be a compilation of the maps mentioned above.
There has been no recent mapping done by the G.S.C. or the Yukon Government since. There is a new (1999) CD-Rom entitled Yukon Digital Geology which is a compilation of geology, mineral occurrences etc.

The Kathleen Lakes-Rackla River area is underlain by generally northwest-trending carbonate and clastic sedimentary rocks of Proterozoic to Triassic age. Thin units of conformable intermediate volcanic rocks also occur within the sequence. Geology in the area is highly complicated and poorly understood. Outcrop exposure along the river valleys is poor and in the Rusty Mountain area the outcrop exposure is fair to good. The Nadaleen Range offers good outcrop exposure with abundant talus slopes.
The Hadrynian and Helikian aged rocks are dominantly dolomite, silstone, slate , conglomerate and limestone. These rocks host the Val, Vera and Craig deposits. The southern half of the area is underlain by Paleozoic clastic rocks. A number of bodies of greenstone (mostly diorite and gabbro) occur within Helikian and Hadrynian rocks along a belt from Rusty Mountain to west of Braine Pass. These are considered to be intrusions of Cretaceous age by some workers (Green, 1972) but may also be extrusive/synvolcanic flow and feeder complexes of much greater age. The Paleozoic clastics in the south half of the area are separated from the precambrian rocks to the north by zone of south dipping thrust faults collectively termed the Dawson Thrust zone. Along this fault zone, a package of rocks comprising slate, quartzite, conglomerate, iron-rich carbonate, serpentine and minor volcanics, informally known as the "Grit Unit" is thrust northwards over Ordivician-Devonian carbonates and black clastics. To the north of the thrust zone, the Ordovician-Devonian rocks overlie Hadrynian rocks. The the south of the thrust, the

"Grit Unit" is unconformably overlain by a very thick sequence of Paleozoic shale, chert, siltstone, and conglomerate.
The area has been primarily explored for Ag-Pb-Zn in the dolomite and limestones but Ag-Pb-Zn has also been discovered in the clastics as at the Siltstone Zone on the Val Claims. Occurrences of tungsten, copper, and gold are known to occur in clastics and carbonates along the Dawson Thrust zone, and copper-silver mineralization has been found in association with greenstone bodies and in Helikian-age clastics north of the area. See Geological Map derived from G.S.C. OF 2175 at 1:250,000 scale in back pocket.

Section 2.0 Quantec I.P. Survey

2.1 Discussion-Val Grid

The 1998 Induced Polarization survey on the Val Claims was increased by 20.35 km of reconnaissance IP and 7.075 km of this was covered by Realsection TDIP survey. The grid is centred on the Big Red Zone and covers the Little Red Zone to the west.
The total chargeability targeted the BRZ right on with a bulls-eye shaped anomaly. This enforces the idea that the BRZ is a pipelike vertical structure with limited lateral extent. This target had been drilled in the past.
Strong northwest/southeast trending chargeability anomalies occurring to the east of the Big Red Zone were tested with drill hole VA99-03. The apparent resistivity map shows the BRZ as a low.
The Little Red Zone which occurs 350 m to the east of the BRZ displays a weak chargeability response and is within a resitivity low. As recommended in the 1998 report the IP survey was extended to the south of the Little Red Zone. A strong chargeability anomaly was shown to connect to the LRZ. These anomalies were tested by drill holes VA99-01 and VA99-02.

2.2 Discussion-Vera Grid

In 1998 grid lines 5400 E, 5350E, 5300E and 5250E were covered by a reconnaissance induced polarization survey for a total of 2.4 kilometres and 3.0 metres of detail survey were done within the same grid area. In 1999 the survey was increased by 6.65 km of reconnaissance I.P. and 3.375 km of this was covered by Realsection TDIP survey. This area extends beyond the northern and southern limits of the detailed mapping done in previous years. The linear chargeability anomaly was tested by drill holes VE99-01 and VE99-02.
See diamond drilling section for more details.
In Volume 2, Appendix II the Geophysical Survey Logistical Report can be found, complete with maps.

3.0 Diamond Drilling

The diamond drill was moved on to the first location (VA99-01) on July 6 and was returned to the Rackla airstrip upon conclusion of drilling (July 28). Cross Sections for the 1999 Diamond Drilling are in map pockets at back of Volume I of this report and drill logs are in Volume II, Appendix III.

Drill holes VA99-01 and VA99-02 were drilled south of the previously defined Little Red Zone (LRZ) on the Val grid. These holes were targeted on strong IP chargeability anomalies which were connected to the LRZ. Intersected in VA99-01 were thick sections of brecciated sparry dolomite. The probable causative feature for the IP response was a 38m section of black graphitic calcareous shale. No significant assays were returned from VA99-01 drill core. The causative feature for the IP anomaly tested by VA99-02 were frequent beds of black argillaceous dolomite with contorted seams of pyrite. No Ag, Pb, Zn mineralization was observed in this hole.

Drill hole VA99-03 was completed as a test of a strong northwest/southeast trending linear IP chargeability anomaly located in the northeast corner of the Val grid. Intersected in the drillhole were interbedded dolomite and a thick (48m) section of carbonaceous/graphitic shaley dolomite. The shaley dolomite is most likely the source of the linear IP anomaly.

VA99-4 and 5 were drilled as tests of a weak IP anomaly located southeast and on strike with the Big Red Zone and proximal to the Tetrahedrite and Archie's Vein occurrences. The drill holes undercut a good Ag, Pb, Zn occurrence located on surface. In VA99-04 a mineralized section was encountered between 115.2m and 132.5m (total depth). The host rock was brecciated sparry dolomite. Mineralization consisted of abundant heavy Pyrite veins and masses with abundant inclusions of tetrahedrite, galena, and abundant red sphalerite as fracture coatings and veins. A clearly identifiable increase in metal content is reflected in the assays at 115.0 m. The mineralized zone is anomalous with peak assays being: Ag – 3.4 ppm, Pb – 1170 ppm, and Zn – 10,000 ppm. Based on the observed mineralization in drill hole VA99-04, VA99-05 was drilled as an undercut of 04. Similar lithologies were intersected, but no important mineralization was intersected.

VE99-01 and VE99-02 were drilled on the Vera Grid. These two drill holes tested an IPchargeability anomaly which roughly parallels the main Vera Vein trend and was proximal to mineralized samples collected on surface during the 1998 program. Two weakly mineralized sections were encountered in VE99-01, the first was a 3.75m section located at 64.5m and the second a broad weakly altered and mineralized section between 96.9 and 113.0m. In the first section, the best assays were Ag – 2.1 ppm, Pb – 301 ppm, and Zn – 3.9%. The lower section in VE99-01 was anomalous with peak assays being Ag – 4.7 ppm, Pb – 2840 ppm, and Zn – 4000 ppm. In drill hole VE99-02, a narrow altered and mineralized section was cut between 24.5 and 32.0 m. The mineralized section was typified by locally intense brecciation, local Fe oxide staining, local trace to 3% disseminated pyrite, and localized clots and fracture coatings of galena and sphalerite.

Assays through this section ranged between: Ag – 0.1 to 44.0 ppm, Pb – 16 to 222 ppm, and Zn – 74 to 2900 ppm.

4.0 Geochemical Surveys: Rock and Soil Samples

4.1 NE Ridge
Rusty Claims 204,205,207,209,211,212,213,215 and 221

In 1998 stream sediment samples 0234-0239 were collected on a north flowing stream off the north side of Rusty Mountain. This stream passes the NE Ridge showing and exhibits Ag values in the 94-98 percentile. Rock Samples 386879 and 386880 were collected along the ridge in 1998 and they were both highly anomalous in Ag, Pb and Zn.

In G.Sivertz's description of the showing (1998 Assessment Rpt) he states "Quartz-dolomite-siderite vein rubble and subcrop occur along narrow linear breaks (probably joints) in diorite, 1.2 km east of Camp View Hill. The linears strike 160 and are commonly 50-100 m wide. Two samples of subcropping vein rubble were taken roughly 100 m apart in a prominent linear near the western side of the diorite body."

In follow up to these results in July 1999 thirteen soil samples were collected along the NE Ridge, MMS-9001 to MMS-9011 and ABS 001,002. The samples were analysed at Northern Analytical Laboratories with ICP analysis using multi-acid digestion (30 element) and Au was analysed using a 15 g fire assay with aqua regia finish. Four rock samples were collected, AB8020 to AB8023 which were also analysed for Au, Ag, Pb and Zn at Northern Analytical Labs.

Soil sample ABS002 contained 9 ppm Ag, 32 ppm Pb, 4414 ppm Zn and 4.2% Cu. Soil sample ABS001 was not anomalous in Ag, Pb,Zn or Cu but did assay 824 ppb Au, in comparison to the other 12 soil samples it was also anomalous in Cu at 193 ppm. Soil sample MMS-9009 contained 2.3 ppm Ag, 1471 ppm Pb, 823 ppm Zn, and 132 ppm Cu, Au was <5ppb. There is an old trench about 250 m to the southwest of samples sites ABS001 and ABS002.

Two of the three rock samples collected on Rusty 205 are anomalous in Ag, Pb and Zn.

See tables 1,2 and 3 for geochemical and assay results.

See map "NE RIDGE and SW MTN RIDGE SHOWINGS" for sample locations.

4.2 Southwest and Northwest Rusty Mountain Showings

During July 1999 19 rock samples were collected from the western side of Rusty Mountain. This was done in follow-up to the stream sediment sampling program of 1998, Samples 0225-0231, and the proximity of the Marco showing, located on the Rusty 60 claim. Rock descriptions and assays are found in Table 4. Samples JB6007 and AB8001 had spectacular Ag values. JB6007 is stated to be a plutonic rock and AB8001 a carbonate of some type.

Rackla Project 1999
NE Ridge Soil Samples
RUSTY Claims 204,205,207,209 and 211

Field Sample Number	Sampler	Medium	Type	Depth	Location (UTM, Claim)	Au (ppb)	Ag(ppm)	Cu (ppm)	Pb (ppm)	Zn(ppm)	As ppm	Ni ppm
MM9001	MM	Sed	Soil	20cm	562506E, 7133252N, Rusty204	<5	0.5	85	118	368	47	49
MM9002	MM	Sed	Soil	(40cm)	562533E, 7133434N, Rusty221	5	0.9	95	244	741	72	69
MM9003	MM	Sed	Soil	(20cm)	562437E, 7133297N, Rusty204	5	0.6	61	99	402	61	44
MM9004	MM	Sed	Soil	(50cm)	562233E, 7133286N, Rusty205	<5	0.1	29	65	193	45	24
MM9005	MM	Sed	Soil	(40cm)	562511E, 7133515N, Rusty205	7	0.3	74	91	303	112	50
MM9006	MM	Sed	Soil	(40cm)	562350E, 7133850N, Rusty205	7	0.5	191	54	289	62	64
MM9007	MM	Sed	Soil	(50cm)	562400E, 7133900N, Rusty205	<5		49	42	142	63	25
MM9008	MM	Sed	Soil	(20cm)	562550E, 7134000N, Rusty205	<5	0.3	71	55	152	78	38
MM9009	MM	Sed	Soil	(50cm)	562150E, 7134150N, Rusty207	<5	2.3	132	1471	823	94	65
MM9010	MM	Sed	Soil	(40cm)	562950E, 7134150N, Rusty209	<5	0.1	24	68	116	68	21
MM9011	MM	Sed	Soil	(50cm)	563050E, 7134350N, Rusty209	10	0.3	135	566	955	83	52

TABLE I

Au + 30: Au 15g fire assay, AAS finish
30 element CIP, Aqua regia digestion

Rackla Project 1999
NE Ridge Soil Samples
RUSTY Claims 204,205,207,209 and 211

Field Sample Number	Sampler	Medium	Type	Depth	Location (UTM, Claim)	Au (ppb)	Ag(ppm)	Cu (ppm)	Pb (ppm)	Zn(ppm)	As ppm	Ni ppm
ABS001 Small	AB		Soil		562400E, 7 133 800N Rusty 205	824	0.2	193	80	511	50	31
ABS002 Large	AB		Soil		562 400E, 7 133 675 N Rusty 205	53	9	4.20%	450	4414	123	99

TABLE I

Au + 30: Au 15g fire assay, AAS finish
30 element CIP, Aqua regia digestion

NE RIDGE ROCK SAMPLES
1999

Field Sample Number	Sampler	Medium	Type	Width (Depth)	Location (UTM, Claim, Zone)	Description (Mineralogy)	Au ppb	Ag ppm	Ag g/mt	Pb ppm	Pb %	Zn ppm	Zn %
AB8020	AB	Rock	Outcrop	n/a	562300E 7133650N, Rusty 205	Altered VOLC w/ MAL, CPY, PY.	54	9.2		38		319	
AB8021	AB	Rock	Outcrop	n/a	562375E, 7133700N, Rusty 205	Altered VOLC w/ MAL, CPY, PY	67	>50	54.5	29		190	
AB8022	AB	Rock	Float (mudboil)	n/a	562280E, 7133750N, Rusty 205	Strong raspberry alteration on DLMT/LMST; heavy. Unlike others.	23	12.7		3870		798	
AB8023	AB	Rock	Float (mudboil)	n/a	562275E, 7133875N, Rusty 205	GA in QTE rubble from active mudboil	5	16.6		9300		196	

TABLE 2

NE Ridge Samples Collected in 1998 by G. Sivertz

Lab Sample Number	UTM Northing	UTM Easting	Zone	ICP Ag	g**Assa	ICP Pb	Pb Assay	ICP Zn	Zn Assay	ICP Cu	Cu Assay	ICP Au	u**Assa	Ni
				ppm	oz/t	ppm	%	ppm	%	ppm	%	ppm	oz/t	ppm
386879	7134205	562854	NE Ridge	181.7	5.34	18364	1.68	16540	1.7	1633	0.159	< 2	0.005	69
386880	7134120	562883	NE Ridge	307.6	14.89	54127	35.7	48145	5.21	718	0.071	< 2	< .001	14
386881	7134115	562690	NE Ridge	2	0.04	310		110		377		< 2	0.001	15
386882	7133678	562348	NE Ridge	84.1	2.81	101	0.01	528	0.04	99999	25.804	< 2	0.002	53

TABLE 3

Rackla Project 1999
SWRM and NWRM Rock Samples
Vera 14,16 and 117 claims

Field Sample Number	Sampler	Medium	Type	Width (Depth)	Location (UTM, Claim, Zone)	Description (Mineralogy)	Au ppb	Ag ppm	Ag g/mt	Pb ppm	Pb %	Zn ppm	Zn %
JB6001	JB	Rock	Outcrop	n/a	7131858N, 561122E, Vera 117, SWRM ridge	CALC vein in GS w/ sulphide mineralization	<5	<.1		25		248	
JB6002	JB	Rock	Float	n/a	7131914N, 561221E, Vera 117, SWRM ridge	GS w/ CALC layer; strong ZZ.	5	2.3		4300		2050	
JB6003	JB	Rock	Outcrop	20cm	7131958N, 561186E, Vera 117, SWRM ridge	CALC/QTE vein w/ CPY, APY	35	0.2		123		207	
JB6004	JB	Rock	Outcrop	n/a	7132021N, 561216E, Vera 117, SWRM ridge	CALC/QTE veinlets in GS w/ APY; strong ZZ.	<5	0.4		357		1925	
JB6005	JB	Rock	Outcrop	10cm	7132106N, 561080E, Vera 117, SWRM ridge	CALC/QTE vein w/ GA, PY, strong ZZ.	<5	6		>10000	1.16	2480	
JB6006	JB	Rock	Float	n/a	7131989N, 561527E, Vera 117, SWRM ridge	CALC w/ PY, CPY, GA, APY & possible CU; strong ZZ.	6	4		1000		5440	
JB6007	JB	Rock	Outcrop	n/a	7132521N, 561177E, Vera 16, NWRM ridge	SPH crystals w/ Mn staining in silica-rich plutonic.	50	>50	187.4	4220		1914	
JB6008	JB	Rock	Outcrop	n/a	7132443N, 561165E, Vera 16, NWRM ridge	SPH, GA mineralization in QTE vein, NW-striking.	10	20.2		7310		7660	
JB6009	JB	Rock	Float	n/a	7132175N, 561259E, Vera 117, SWRM ridge	AZU, CPY, PRT, APY in CALC vein in GS; strong ZZ.	<5	0.8		573		3720	
AB8001	AB	Rock	Outcrop	20cm	560250E, 7131750N, Vera 117, SWRM ridge	GS w/ slightly pyritized QTE/CALC vein; strong ZZ.	<5	>50	77.4	6540		6690	
AB8002	AB	Rock	Outcrop	n/a	560300E, 7131850N, Vera 117, SWRM ridge	Heavily altered pyritized VOLC outcrop; no ZZ.	<5	0.5		41		1059	
AB8003	AB	Rock	Float	n/a	560400E, 7131900N, Vera 117, SWRM ridge	High density CALC and QTZ crystal float w/ CPY & MAL; strong ZZ.	<5	0.7		98		4070	
AB8004	AB	Rock	Outcrop	n/a	560425E, 7132000N, Vera 117, SWRM ridge	Altered CALC float w/ BA or QTE rosettes in vugs & GA; stong ZZ.	<5	1.7		5320		1433	
AB8005	AB	Rock	Outcrop	40cm	560600E, 7132000N, Vera 117, SWRM ridge	CPY,APY, MAL & GA in NW-striking CALC/QTE vein in GS; strong ZZ.	6	1		288		383	
AB8006	AB	Rock	Float	n/a	560500E, 7132050N, Vera 117, SWRM ridge	Stongly altered (black) DLMT w/ MAL	<5	37.8		1382		3950	
AB8007	AB	Rock	Float	n/a	560500E, 7132100N, Vera 117, WRM gully	Brecciated DLMT in LMST matrix w/ MAL, AZU, PY, CPY; strong ZZ.	31	48.1		3360		4100	
AB8008	AB	Rock	Outcrop	n/a	560400E, 7132100N, Vera 117, WRM gully	Shale @ nose of fold w/ MAL & PY (unable to obtain strike/dip)	14	3.3		45		485	
AB8010	AB	Rock	Outcrop	n/a	560375E, 7132250N, Vera16, NWRM ridge	Strongly altered sphalerite 2m away from QTE vein	<5	1		141		866	
AB8011	AB	Rock	Outcrop	n/a	560300E, 7132250E, Vera16, NWRM ridge	DLMT w/ GA; strong ZZ	<5	3.2		1136		3590	

TABLE 4

5.0 Conclusions and Recommendations

The 1999 program was designed as an evaluation of the Real Section IP geophysical survey as a guide for exploring for mineralization type similar to known occurrences on the Val and Vera claims, but in unexposed terrain. While the survey is capable of reflecting a signature over the known occurrences such as the Vera Vein, Big Red Zone, and Little Red Zone, it also responds to other "non economic" rock and mineralization types. The carbonaceous, locally pyritic, and graphitic shales intersected in the Val Grid drilling provide responses very similar to the occurrences of economic interest. The shale units are recessive and therefore do not outcrop. Due to the recessive nature of the shale units it is impossible to differentiate between the economic styles of mineralization found on the Val and Vera claims, and the hidden shales, by the IP method alone.

Continued exploration on the Val and Vera claims should place a greater reliance on geological control. Continued use of IP surveys will require additional methods which would verify the nature of the geophysical anomalies prior to diamond drilling. The preferred method to test the geophysical responses would be trenching.

The exploration program conducted on the Val and Vera claims during 1999 does not diminish the potential of the property, but rather has just limited the capability of using Induced Polarization surveys as a definitive tool. Defined mineral resources are present on the property, and the property contains an extraordinary amount of mineralization in a relatively small area.

Continued exploration of the property is recommended with the emphasis being on geological mapping and control. Alternative mineralization models and styles should be considered, as should alternative geophysical and geochemical exploration methods.

List of References

Eaton, J., Jutras, J.P., Raven, W., Sivertz, G., Torigai, K.
February 1999
Geochemical, Geological and Geophysical Assessment Report for the Val, Vera, rusty, KLA, Nad and Craig Claims, Mayo Mining District, Yukon Territory, Manson Creek Resources Ltd.

Warne, GRJ, Legault, JM, Tolley, M.
September 1998
Quantec IP Inc., Geophysical Survey Logistitical Report

Certificate of Qualifications

I, Jennifer Eaton, having my place of residence at 4002-19th Street S.W., Calgary, AB do hereby certify that:

1: I am a qualified geologist having obtained my Bachelor of Science Degree (Honours) in Geology from Queen's University at Kingston in 1983.

2: I am a professional geologist registered with the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA).

3: I am a Fellow of the Geological Association of Canada.

4: I have practised the profession of exploration geology since 1983.

Dated at Calgary, AB this 8th day of February 2000

Jennifer Eaton

Jennifer Eaton P. Geol.

CERTIFICATE

I, Bruce T. Evans, of 164 Sierra Vista Terrace S.W., Calgary, Alberta, hereby certify:

1. That I graduated from Queen's University at Kingston, Ontario in 1982 with a degree of Bachelor of Science (Bsc. Honours) in Geological Science.

2. That I have practiced as a geologist in the resource exploration and development industry continuously since graduation.

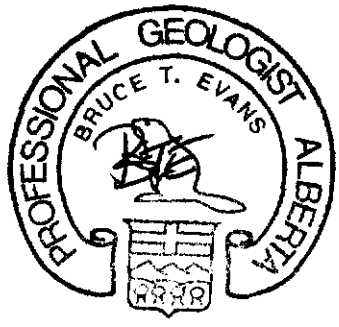
3. That I am a member in good standing of the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.

4. That I am a licensed member in good standing of the Northwest Territories Association of Professional Engineers, Geologists, and Geophysicists.

5. That I am an author of the report titled "Geophysical, Geochemical and Diamond Drilling Assessment Report for the Val, Vera, and Rusty Claims" for Manson Creek Resources Ltd. and that the conclusions and recommendations contained within are based upon my research, review of the company's files, reports and data sets, exploration of the property and, experience gained while working in the project area.

Dated at Calgary this 8th day of February 2000.

Bruce T. Evans, P. Geol.



7139000N + 554000E

7139000N + 569000E

VERA

RUSTY

North Creek Grid

NW Ridge

Camp View Zone

NE Ridge

GD Zone

Vera Camp

Vera Deposit

Jorge Showing

Vera Scarp Zone

Rusty Mtn. Peak

Marko Showing

South Rusty Mountain Zone

RUSTY

VERA

West Ridge Zone

Stromatolite Zone

VAL

Siltstone Zone

North Kill Zone

7127000N + 569000E

Val Little Red Zone

Val Big Red Zone

Tetrahedrite Zone

Archie's Vein

Val South Hill Zone

VAL

A-Zone

KLA

Quartzite Showing

Paka Zone

7120000N + 554000E

7120000N + 569000E

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094073

LEGEND

Claims		Owner
120	VERA	Manson Creek Resources Ltd. 50%
283	VAL	Prism Resources Inc. 50%
117	RUSTY	Manson Creek Resources Ltd. 100%
48	KLA	Manson Creek Resources Ltd. 100%
★		Deposit
●		Occurrence/Showing

Scale 1:50,000

0 1000 2000

Metres

Manson Creek Resources Ltd.	
Vera, Val, Rusty & KLA Claims Location Map	
NTS: 106C/4,5	Date: December 1998
Scale: 1:50,000	Project Code: MCK-YUK-01

UTM Grid Based on NAD 27

5850 N
5800 N
5750 N
5700 N
5650N
5600 N

1220 m
1200 m
1180 m
1160 m

River

VE-99-01
5715 N
5150 E

O.B.

Elevation of collar +/- 1192 m

Dolomite-medium grey

Samples
24920 to 24923
taken from
64.5 to 68.25m

Samples
24924 to 24937
taken from
97.0 to 112.5m

Dolomite-BXTD ALT'D

Dolomite-medium grey

E.O.H @ 120.4 m

094073

Manson Creek Resources Ltd.

VERA CLAIM 40
Section 5150 E
Drill Hole VE-99-01
Azimuth -170
(section looking 080)

NTS:	Date:	Project:	Scale:
106/C5	January 2000	MCK-YUK-1	1:1000

Scale
0
50m

5850 N
5800 N
5750 N
5700 N
5650N
5600 N
5550N

1300 m
1280 m
1260 m
1240 m
1220 m
1200 m
1180 m
1160 m

VE-99-02
5629 N
5400 E

O.B.

Elevation of collar +/- 1273 m

Dolomite-medium grey

Samples
24938 to 24946
taken from
24.0 to 33.0 m

Dolomite-BXTD

Dolomite-medium grey

E.O.H @ 98.8 m

River

094073

Manson Creek Resources Ltd.

VERA CLAIM 40
Section 5400 E
Drill Hole VE-99-02
Azimuth -170
(section looking 080)

NTS:	Date:	Project:	Scale:
106/C5	January 2000	MCK-YUK-1	1:1000

Scale
0
50m

9,350E 9,400E 9,450E 9,500E 9,550E 9,600E 9,650E

1280 m
1260 m
1240 m
1220 m
1200 m
1180 m
1160 m
1140 m
1120 m
1100 m

VA-99-01
9800 N
9570 E

Elevation of collar +/- 1220 m

O.B.

Dolomite

Calcareous Shale

Silty/Shaley Dolomite

Dolomite- locally Bxtd.

Samples
24901-24919
taken from
121.5 to 150.6 m

Dolomite-bedded.

E.O.H @ 150.6 m

094073

Manson Creek Resources Ltd.

VAL CLAIM 28
Drill Hole VA-99-01
Azimuth -240
(section looking NW)

NTS:	Date:	Project:	Scale:
106/C5	January 2000	MCK-YUK-1	1:1000

Scale 0 50m

9,350E 9,400E 9,450E 9,500E 9,550E 9,600E 9,650E

1280 m
1260 m
1240 m
1220 m
1200 m
1180 m
1160 m
1140 m
1120 m
1100 m

VA-99-02
9835 N
9472 E

Elevation of collar +/- 1210 m

O.B.

No samples taken

Dolomite

Dolomite- bedded

E.O.H @ 170.4 m

094073

Manson Creek Resources Ltd.

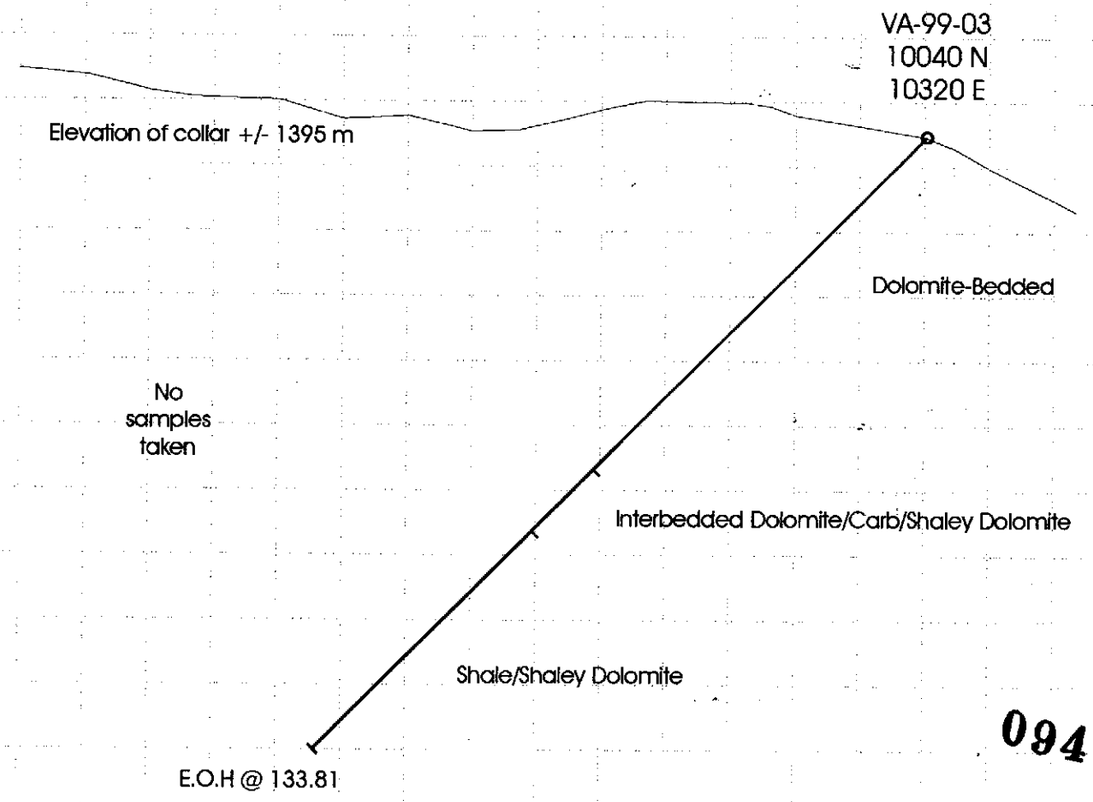
VAL CLAIM 28
Drill Hole VA-99-02
Azimuth -240
(section looking NW)

NTS:	Date:	Project:	Scale:
106/C5	January 2000	MCK-YUK-1	1:1000

Scale 0 50m

10,000E 10,050E 10,100E 10,150E 10,200E 10,250E 10,300E 10,350E

1420 m
1400 m
1380 m
1360 m
1340 m
1320 m
1300 m
1280 m
1260 m



094073

Manson Creek Resources Ltd.

VAL CLAIM 27
Drill Hole VA-99-03
Azimuth -240
(section looking NW)

NTS:	Date:	Project:	Scale:
106/C5	January 2000	MCK-YUK-1	1:1000

Scale 0 50m

10,000E 10,050E 10,100E 10,150E 10,200E 10,250E 10,350E

1360 m
1340 m
1320 m
1300 m
1280 m
1260 m

VA 99-04 (-45°)
VA-99-05 (-60°)
9650 N
10100 E

Elevation of collar +/- 1288 m

O.B.

094073

Laminated Dolomite

Strongly Brxt Dolomite

Strongly Brxt Dolomite

Dolomite-
-Bxtd
-Minz'd (Sph+Py)

VA-99-04
Samples
24947 to 24975
taken from
104.0 to 133.0 m

Dolomite
-grey, microcrystalline
-weakly Bxtd throughout
-local coarse Py

VA-99-05
No samples taken

E.O.H @ 133.8 m

Laminated Dolomite

Intercalated Argillite and
Dolomitic Argillaceous Clastic unit

Laminated Dolomite

E.O.H @ 181.05 m

Manson Creek Resources Ltd.

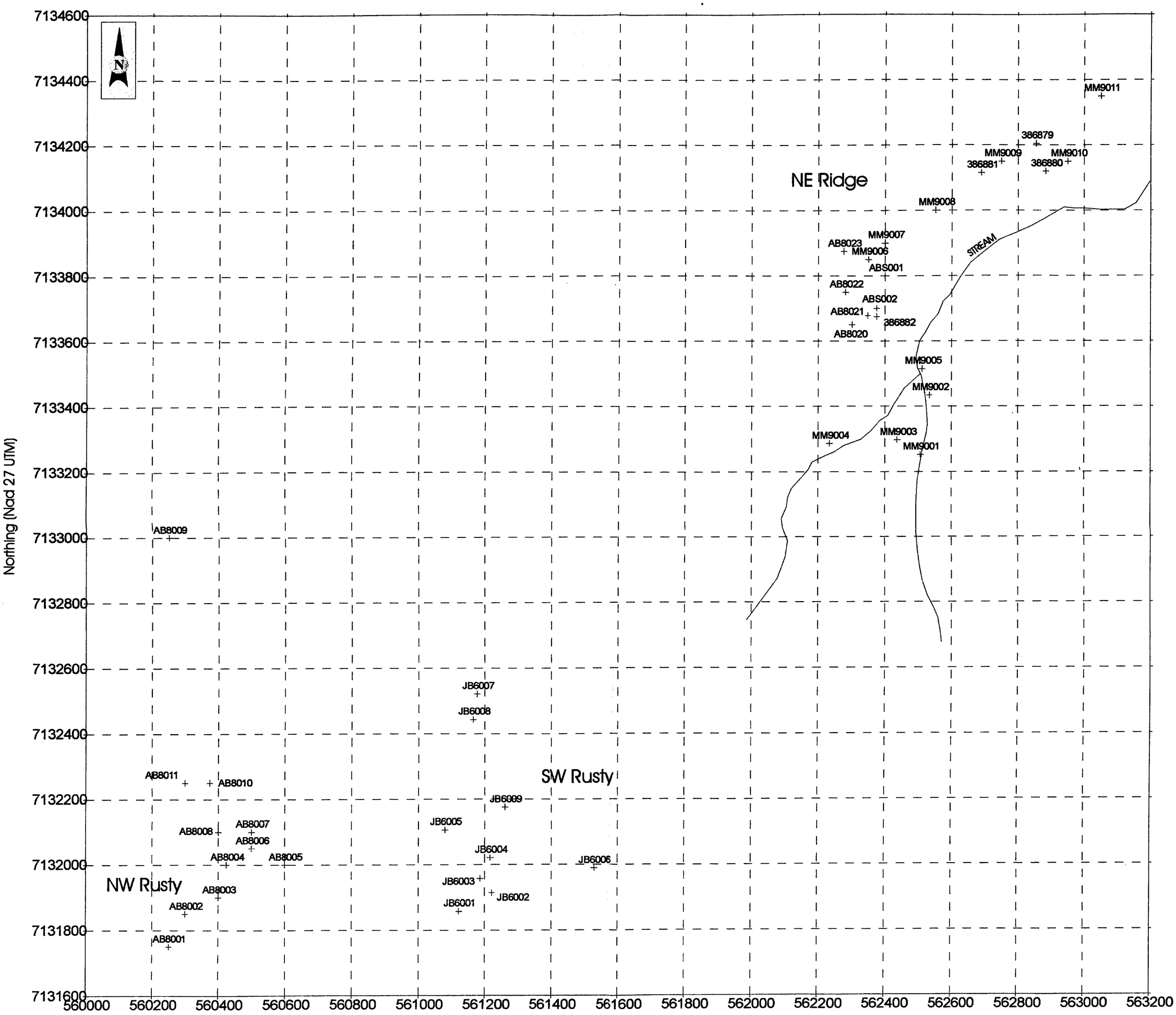
VAL CLAIM 29
Section 9650 N
Drill Hole VA-99-04/05
Azimuth 270
(section looking N)

NTS:	Date:	Project:	Scale:
106/C5	January 2000	MCK-YUK-1	1:1000

Scale 0 50m

NE RIDGE and SW RUSTY MTN and NW RUSTY MTN SHOWINGS

Soil Samples MM Series
Rock Samples AB and JB Series



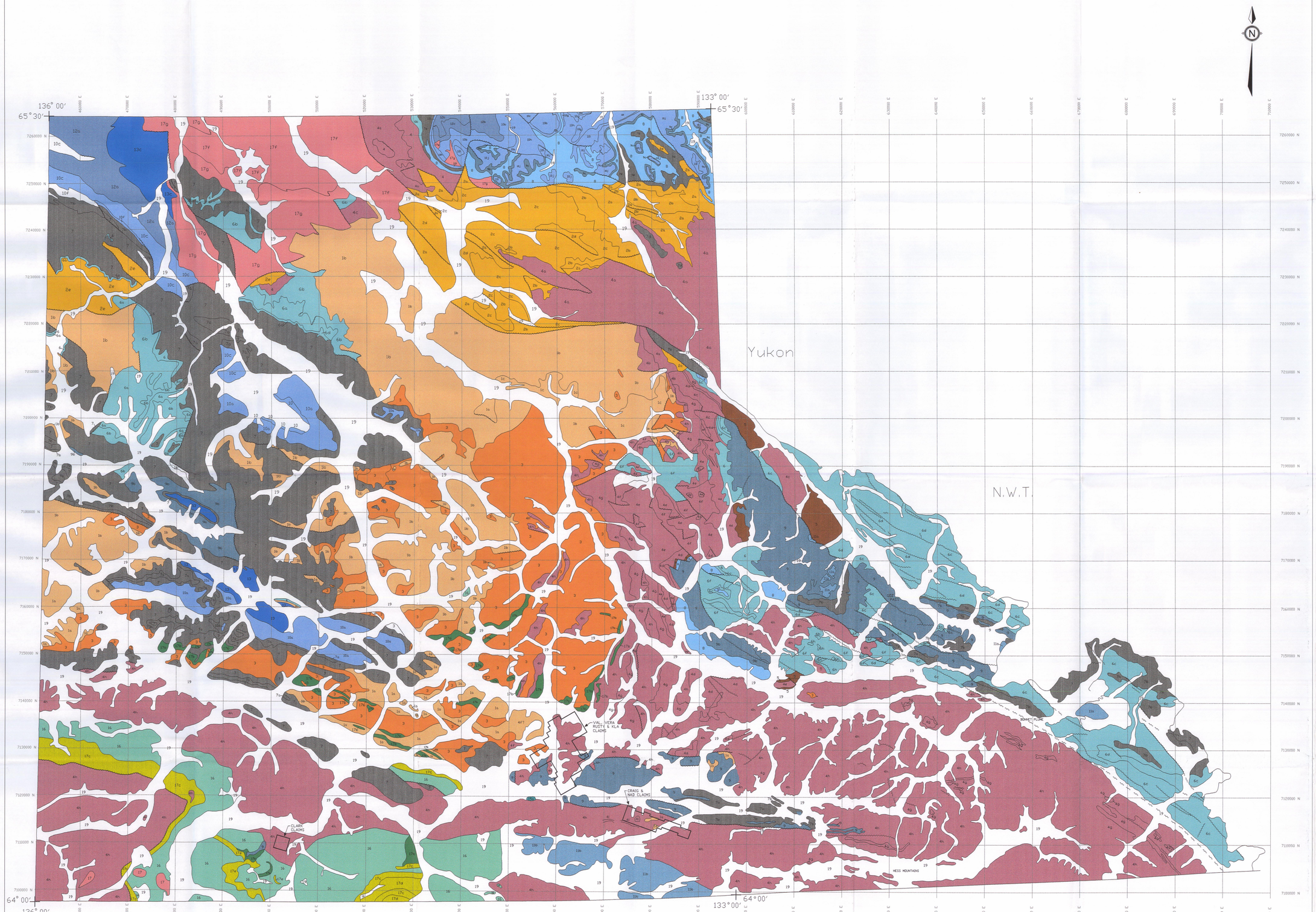
See Tables 1,2 and 3 in text for sample descriptions and results.

Scale 1:10,000

0 200 400 600 800

NTS Map Sheet 106 C-5

094073



LEGEND

QUATERNARY

19 — Unconsolidated glacial and alluvial deposits.

TERTIARY

18 — Quartz porphyry.

CRETACEOUS

17, 17a, 17b, 17g — Biotite granodiorite and quartz monzonite; 17a, hornblende/biotite syenite; 17b, diorite and gabbro; 17c, Keno Hill Quartzite: massive quartzite, minor slate and phyllite; 17d, phyllitic quartzite, graphitic and chlorite slate and phyllite; minor limestone; 17e, similar to 17c but may be older; 17f, Bonnet Plume Formation: sandstone, shale and coal; 17g, Bonnet Plume Formation: conglomerate and sandstone.

17c, 17d, 17e

17b

JURASSIC

16 — Lower Schist Division: argillite, slate, phyllite and quartzite.

TRIASSIC

15 — Black limy shale and limestone; 15a, quartzite and minor shale.

PERMIAN

14 — Tahkandit Formation: chert, cherty limestone and limestone; 14a, limestone with some chert.

CARBONIFEROUS TO PERMIAN

13 — Limestone, black shale, chert and chert-pebble conglomerate; 13a, dark shale, limestone, sandstone and minor chert-pebble conglomerate; 13b, shale, slate and minor limestone.

CARBONIFEROUS

12 — Carbonates and clastics; 12a, Hart River Formation: shale, siltstone and limestone; 12b, shale; 12c, clastics and coal.

DEVONIAN AND MISSISSIPPIAN

11 — Black shale, argillite, minor chert and chert-pebble conglomerate; 11a, Besa River Formation: black shale and siltstone; 11b, argillite, slate, phyllite and quartzite; 11c, black shale, argillite, slate, limestone, chert and chert-pebble conglomerate; 11d, Nation River Formation: chert-pebble conglomerate and chert-grain sandstone.

DEVONIAN

10 — Grey, brown and black massive limestone; 10a, limestone and dolomite; 10b, shale; 10c, clastics; 10d, sandstone; 10e, shale; 10f, Canol Formation: black siliceous shale; 10g, Hume Formation: limestone; 10h, shale; 10i, Cranswick Formation: limestone; 10j, Arrica Formation: dolomite.

SILURIAN AND DEVONIAN

9 — Dolomite and minor limestone; 9a, undivide 9 and 8; 9b, Delorme Formation: dolomite and limestone; 9c, carbonates and clastics.

ORDOVICIAN AND SILURIAN

8 — Mount Kindle Formation: massive, vuggy and reefoid dolomite.

CAMBRIAN AND ORDOVICIAN

7 — Dolomite and limestone; 7a, dark volcanic rocks, tuff and argillite; 7b, Road River Formation: shale and chert; 7c, carbonate debris flows; 7d, Franklin Mountain Formation: dolomite and shale.

CAMBRIAN

6 — Unnamed clastics; 6a, carbonates and clastics; 6b, limestone and bioherms; 6c, Sekwi Formation: dolomite, limestone, shale and sandstone; 6d, Backbone Ranges Formation: quartzite, siltstone, shale and dolomite; 6e, quartzite, siltstone and shale; 6f, pisolitic dolomite and minor quartzite; 6g, dolomite, quartzite and shale; 6h, clastics and carbonates.

HADRYNIAN AND (?) CAMBRIAN

5 — Sheepbed Formation: slate, siltstone, quartzite, conglomerate and limestone.

HADRYNIAN

4 — Unnamed carbonates and clastics; 4a, Rapitan Group: mudstone, limestone, diamictite and iron formation; 4b, dolomite and quartzite; 4c, Rapitan Group undivided; 4d, dolomite; 4e, shale, siltstone, conglomerate and dolomite; 4f, dolomite, shale and sandstone; 4g, dolomite and limestone; 4h, "Grit Unit": slate, siltstone, sandstone and conglomerate; 4i, dolomite and limestone.

HADRYNIAN AND HELIKIAN

3 — Orange-weathering dolomite, dark slate, phyllite and quartzite; 3a, pink-orange and grey weathering dolomite, shale, quartzite, conglomerate and limestone; 3b, buff and orange dolomite, shale and quartzite; 3c, grey dolomite, shale and quartzite; 3d, dolomite-boulder conglomerate; 3e, shale, argillite, siltstone and dolomite.

HELIKIAN

2 — Carbonates, shale and gypsum; 2a, dolomite, shale and gypsum; 2b, dolomite and limestone; 2c, Katherine Formation: sandstone and dolomite; 2d, Tsezotene Formation: sandstone and dolomite; 2e, clastics and carbonates.

HELIKIAN AND (?) APHEBIAN

1 — Dolomite; 1a, dark shale, siltstone and argillaceous dolomite; 1b, slate, phyllite, argillite, quartzite and limestone; 1c, argillite, limestone and minor biotite calc-silicate hornfels.

094 073

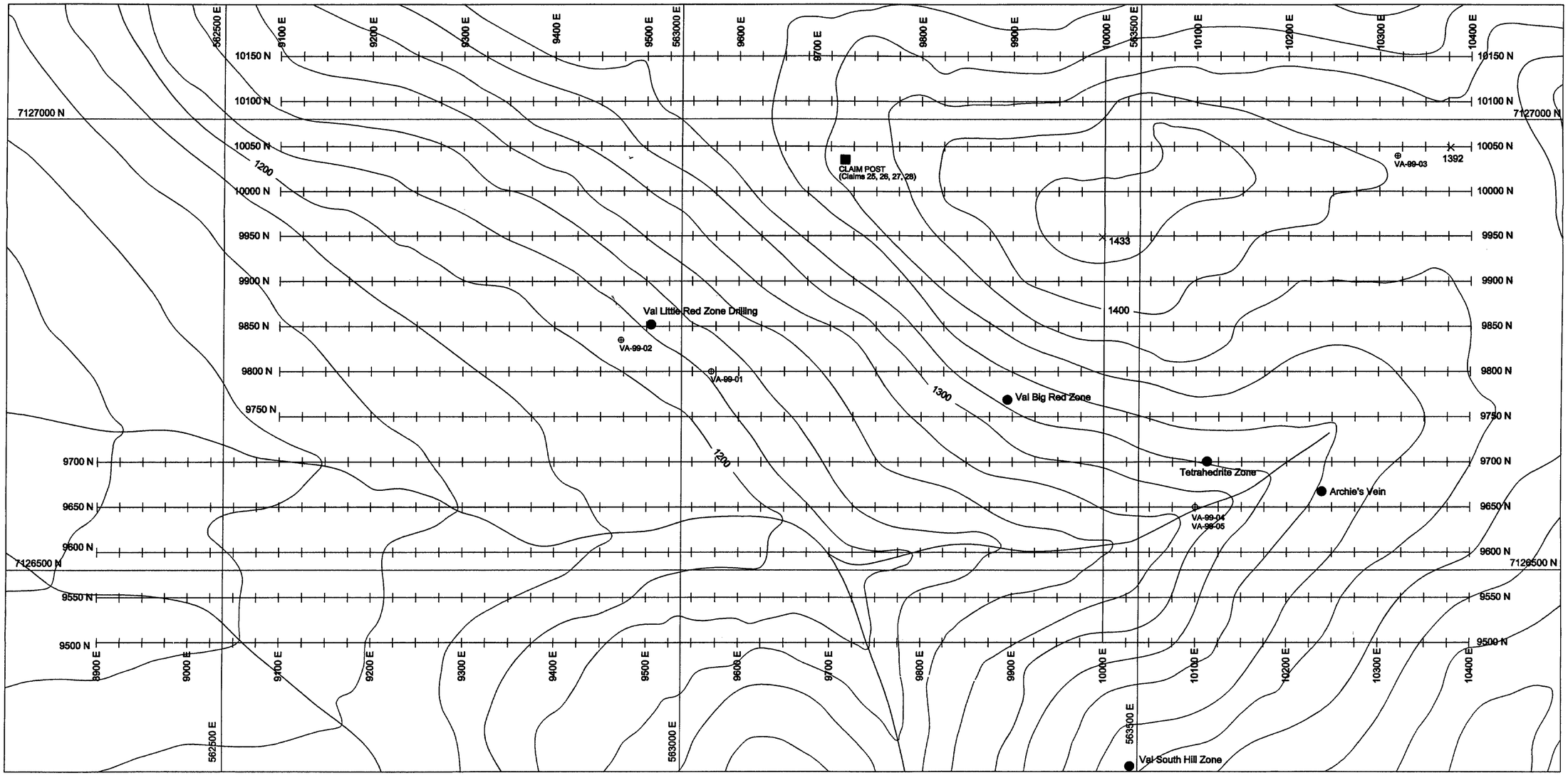
Manson Creek Resources Ltd.

Geology

NTS: 106C,D,E,F

Yukon Territory

NTS: 106C,D,E,F	Date: August 1998	Project: MCK-YUK-01
Scale: 1:250,000	Revised: November 1999	File Name: Geology & All Claims



094073

Scale 1:2500

0 250

Metres

LEGEND

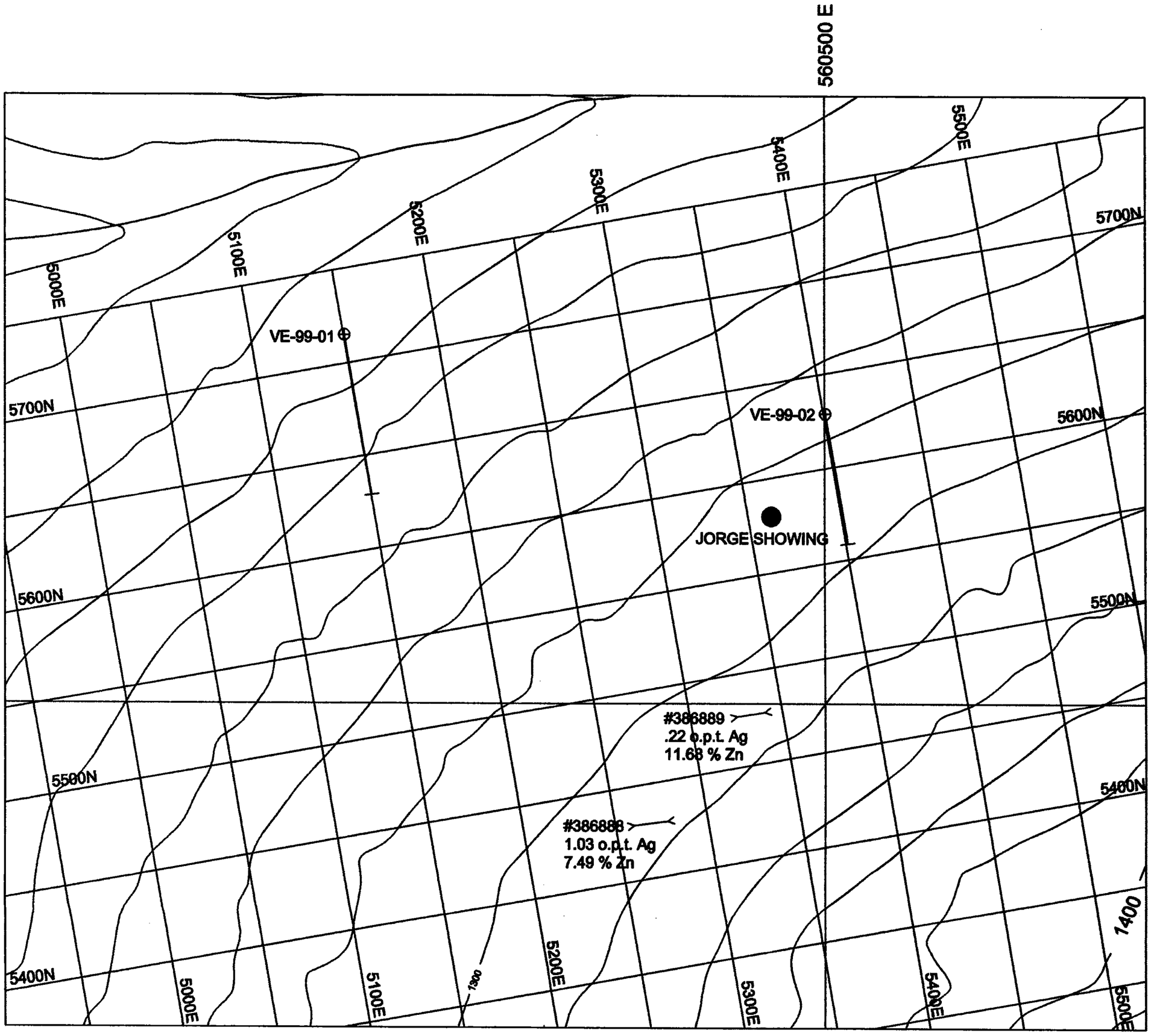
- Zone Name
- 1999 Drillholes

Manson Creek Resources Ltd.

VAL Grid Drilling Plan Map

NTS: 106C/4,5	Date: Dec. 1999	Project Code: MCK-YUK-01
Scale: 1:2500	Contour Interval: 20 m	File Name: Val_Topo

UTM Grid Based on NAD 27



Scale 1:2500

0 250

Metres

094073

LEGEND

- ⊕ 1999 Drillholes
- ● Showing
- >—< Trench

Manson Creek Resources Ltd.

VERA Grid 1999 Diamond Drilling Plan Map

NTS: 106C/4,5	Date: December 1999
Scale: 1:2500	Contour Interval: 20 m

UTM Grid Based on NAD 27

VOLUME 2
APPENDICES 094073

Geophysical, Geochemical and Diamond Drilling Assessment Report for the Val, Vera and Rusty Claims Mayo Mining District, Yukon Territory.

Manson Creek Resources Ltd.

APPENDIX I

Tables of Claim Name, Grant Numbers and Anniversary Dates for the Vera, Val, and Rusty Claims.

Schedule of Vera Claims
MCK-YK-01

Claim Name	Grant Number	NTS	Date Recorded	Expiry Date
Vera 13	YA37394	106C/5	08/08/78	15/01/04
Vera 14	YA37395	106C/5	08/08/78	15/01/04
Vera 15	YA37396	106C/5	08/08/78	15/01/04
Vera 16	YA37397	106C/5	08/08/78	15/01/04
Vera 17	YA37398	106C/5	08/08/78	15/01/04
Vera 18	YA37399	106C/5	08/08/78	15/01/04
Vera 37	YA37418	106C/5	08/08/78	15/01/04
Vera 38	YA37419	106C/5	08/08/78	15/01/04
Vera 39	YA37420	106C/5	08/08/78	15/01/04
Vera 40	YA37421	106C/5	08/08/78	15/01/04
Vera 41	YA37422	106C/5	08/08/78	15/01/04
Vera 42	YA37423	106C/5	08/08/78	15/01/04
Vera 43	YA37424	106C/5	08/08/78	15/01/04
Vera 44	YA37425	106C/5	08/08/78	15/01/04
Vera 45	YA37426	106C/5	08/08/78	15/01/04
Vera 46	YA37427	106C/5	08/08/78	15/01/04
Vera 117	YA37498	106C/5	08/08/78	15/01/04
Vera 118	YA37499	106C/5	08/08/78	15/01/04
Vera 119	YA37500	106C/5	08/08/78	15/01/04
Vera 120	YA37501	106C/5	08/08/78	15/01/04
Vera 121	YA37502	106C/5	08/08/78	15/01/04
Vera 122	YA37503	106C/5	08/08/78	15/01/04
Vera 123	YA37504	106C/5	08/08/78	15/01/04
Vera 124	YA37505	106C/5	08/08/78	15/01/04
Vera 130	YA37511	106C/5	08/08/78	15/01/04
Vera 132	YA37513	106C/5	08/08/78	15/01/04
Vera 134	YA37515	106C/5	08/08/78	15/01/04
Vera 136	YA37517	106C/5	08/08/78	15/01/04
North Grid	**Zone**			
Vera 77	YA37458	106C/5	08/08/78	15/01/04
Vera 78	YA37459	106C/5	08/08/78	15/01/04
Vera 79	YA37460	106C/5	08/08/78	15/01/04
Vera 80	YA37461	106C/5	08/08/78	15/01/04
Stromatolite	**Zone**			
Vera 87	YA37486	106C/5	08/08/78	15/01/04
Vera 88	YA37487	106C/5	08/08/78	15/01/04
Vera 89	YA37488	106C/5	08/08/78	15/01/04
Vera 90	YA37489	106C/5	08/08/78	15/01/04

Total Number of Vera Claims	36
Total Number of hectares	752.4

N.B. All Vera claims will be Good Until Jan 15, 2008 after the 1999 Assessment work is accepted, with the exception of Vera 77-80.

25/01/00

Schedule of Val Claims
MCK-YK-01

Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Val 2	YA30885	106C/4,5	19/07/78	19/01/04	19/01/08
Val 4	YA30887	106C/4,5	19/07/78	19/01/04	19/01/08
Val 5	YA30888	106C/4,5	19/07/78	19/01/04	19/01/08
Val 6	YA30889	106C/4,5	19/07/78	19/01/04	19/01/08
Val 7	YA30890	106C/4,5	19/07/78	19/01/04	19/01/08
Val 8	YA30891	106C/4,5	19/07/78	19/01/04	19/01/08
Val 9	YA30892	106C/4,5	19/07/78	19/01/04	19/01/08
Val 10	YA30893	106C/4,5	19/07/78	19/01/04	19/01/08
Val 11	YA30894	106C/4,5	19/07/78	19/01/04	19/01/08
Val 12	YA30895	106C/4,5	19/07/78	19/01/04	19/01/08
Val 13	YA30896	106C/4,5	19/07/78	19/01/04	19/01/08
Val 14	YA30897	106C/4,5	19/07/78	19/01/04	19/01/08
Val 15	YA30898	106C/4,5	19/07/78	19/01/04	19/01/08
Val 16	YA30899	106C/4,5	19/07/78	19/01/04	19/01/08
Val 17	YA30900	106C/4,5	19/07/78	19/01/04	19/01/08
Val 18	YA30901	106C/4,5	19/07/78	19/01/04	19/01/08
Val 19	YA30902	106C/4,5	19/07/78	19/01/04	19/01/08
Val 20	YA30903	106C/4,5	19/07/78	19/01/04	19/01/08
Val 21	YA30904	106C/4,5	19/07/78	19/01/04	19/01/08
Val 22	YA30905	106C/4,5	19/07/78	19/01/04	19/01/08
Val 23	YA30906	106C/4,5	19/07/78	19/01/04	19/01/08
Val 24	YA30907	106C/4,5	19/07/78	19/01/04	19/01/08
Val 25	YA30908	106C/4,5	19/07/78	19/01/04	19/01/08
Val 26	YA30909	106C/4,5	19/07/78	19/01/04	19/01/08
Val 27	YA30910	106C/4,5	19/07/78	19/01/04	19/01/08
Val 28	YA30911	106C/4,5	19/07/78	19/01/04	19/01/08
Val 29	YA30912	106C/4,5	19/07/78	19/01/04	19/01/08
Val 30	YA30913	106C/4,5	19/07/78	19/01/04	19/01/08
Val 31	YA30914	106C/4,5	19/07/78	19/01/04	19/01/08
Val 32	YA30915	106C/4,5	19/07/78	19/01/04	19/01/08
Val 33	YA30916	106C/4,5	19/07/78	19/01/04	19/01/08
Val 34	YA30917	106C/4,5	19/07/78	19/01/04	19/01/08
Val 35	YA30918	106C/4,5	19/07/78	19/01/04	19/01/08
Val 36	YA30919	106C/4,5	19/07/78	19/01/04	19/01/08
Val 37	YA30920	106C/4,5	19/07/78	19/01/04	19/01/08
Val 38	YA30921	106C/4,5	19/07/78	19/01/04	19/01/08
Val 39	YA30922	106C/4,5	19/07/78	19/01/04	19/01/08
Val 40	YA30923	106C/4,5	19/07/78	19/01/04	19/01/08
Val 41	YA30924	106C/4,5	19/07/78	19/01/04	19/01/08
Val 42	YA30925	106C/4,5	19/07/78	19/01/04	19/01/08
Val 43	YA30926	106C/4,5	19/07/78	19/01/04	19/01/08
Val 44	YA30927	106C/4,5	19/07/78	19/01/04	19/01/08
Val 45	YA30928	106C/4,5	19/07/78	19/01/04	19/01/08
Val 46	YA30929	106C/4,5	19/07/78	19/01/04	19/01/08
Val 47	YA30930	106C/4,5	19/07/78	19/01/04	19/01/08
Val 48	YA30931	106C/4,5	19/07/78	19/01/04	19/01/08

25/01/00

Schedule of Val Claims
MCK-YK-01

Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Val 49	YA30932	106C/4,5	19/07/78	19/01/04	19/01/08
Val 50	YA30933	106C/4,5	19/07/78	19/01/04	19/01/08
Val 51	YA30934	106C/4,5	19/07/78	19/01/04	19/01/08
Val 52	YA30935	106C/4,5	19/07/78	19/01/04	19/01/08
Val 53	YA30936	106C/4,5	19/07/78	19/01/04	19/01/08
Val 54	YA30937	106C/4,5	19/07/78	19/01/04	19/01/08
Val 71	YA37144	106C/4,5	28/07/78	19/01/04	19/01/08
Val 73	YA37146	106C/4,5	28/07/78	19/01/04	19/01/08
Val 75	YA37148	106C/4,5	28/07/78	19/01/04	19/01/08
Val 77	YA37150	106C/4,5	28/07/78	19/01/04	19/01/08
Val 83	YA37156	106C/4,5	28/07/78	19/01/04	19/01/08
Val 84	YA37157	106C/4,5	28/07/78	19/01/04	19/01/08
Val 85	YA37158	106C/4,5	28/07/78	19/01/04	19/01/08
Val 86	YA37159	106C/4,5	28/07/78	19/01/04	19/01/08
Val 87	YA37160	106C/4,5	28/07/78	19/01/04	19/01/08
Val 88	YA37161	106C/4,5	28/07/78	19/01/04	19/01/08
Val 89	YA37162	106C/4,5	28/07/78	19/01/04	19/01/08
Val 90	YA37163	106C/4,5	28/07/78	19/01/04	19/01/08
Val 91	YA37164	106C/4,5	28/07/78	19/01/04	19/01/08
Val 92	YA37165	106C/4,5	28/07/78	19/01/04	19/01/08
Val 93	YA37166	106C/4,5	28/07/78	19/01/04	19/01/08
Val 94	YA37167	106C/4,5	28/07/78	19/01/04	19/01/08
Val 95	YA37168	106C/4,5	28/07/78	19/01/04	19/01/08
Val 96	YA37169	106C/4,5	28/07/78	19/01/04	19/01/08
Val 97	YA37170	106C/4,5	28/07/78	19/01/04	19/01/08
Val 98	YA37171	106C/4,5	28/07/78	19/01/04	19/01/08
Val 99	YA37172	106C/4,5	28/07/78	19/01/04	19/01/08
Val 100	YA37173	106C/4,5	28/07/78	19/01/04	19/01/08
Val 101	YA37174	106C/4,5	28/07/78	19/01/04	19/01/08
Val 102	YA37175	106C/4,5	28/07/78	19/01/04	19/01/08
Val 103	YA37176	106C/4,5	28/07/78	19/01/04	19/01/08
Val 104	YA37177	106C/4,5	28/07/78	19/01/04	19/01/08
Val 105	YA37178	106C/4,5	28/07/78	19/01/04	19/01/08
Val 106	YA37179	106C/4,5	28/07/78	19/01/04	19/01/08
Val 107	YA37180	106C/4,5	28/07/78	19/01/04	19/01/08
Val 108	YA37181	106C/4,5	28/07/78	19/01/04	19/01/08
Val 109	YA37182	106C/4,5	28/07/78	19/01/04	19/01/08
Val 110	YA37183	106C/4,5	28/07/78	19/01/04	19/01/08
Val 111	YA37184	106C/4,5	28/07/78	19/01/02	19/01/08
Val 112	YA37185	106C/4,5	28/07/78	19/01/02	19/01/08
Val 113	YA37186	106C/4,5	28/07/78	19/01/04	19/01/08
Val 114	YA37187	106C/4,5	28/07/78	19/01/04	19/01/08
Val 115	YA37188	106C/4,5	28/07/78	19/01/04	19/01/08
Val 116	YA37189	106C/4,5	28/07/78	19/01/04	19/01/08
Val 117	YA37190	106C/4,5	28/07/78	19/01/04	19/01/08
Val 118	YA37191	106C/4,5	28/07/78	19/01/04	19/01/08

Schedule of Val Claims
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Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Val 119	YA37192	106C/4,5	28/07/78	19/01/04	19/01/08
Val 120	YA37193	106C/4,5	28/07/78	19/01/04	19/01/08
Val 121	YA37194	106C/4,5	28/07/78	19/01/04	19/01/08
Val 122	YA37195	106C/4,5	28/07/78	19/01/02	19/01/06
Val 123	YA37196	106C/4,5	28/07/78	19/01/02	19/01/06
Val 124	YA37197	106C/4,5	28/07/78	19/01/02	19/01/06
Val 125	YA37198	106C/4,5	28/07/78	19/01/02	19/01/06
Val 126	YA37199	106C/4,5	28/07/78	19/01/02	19/01/06
Val 127	YA37200	106C/4,5	28/07/78	19/01/00	19/01/04
Val 128	YA37201	106C/4,5	28/07/78	19/01/00	19/01/04
Val 129	YA37202	106C/4,5	28/07/78	19/01/00	10/01/04
Val 130	YA37203	106C/4,5	28/07/78	19/01/00	19/01/04
Val 131	YA37204	106C/4,5	28/07/78	19/01/00	19/01/04
Val 132	YA37205	106C/4,5	28/07/78	19/01/00	19/01/04
Val 133	YA37206	106C/4,5	28/07/78	19/01/00	19/01/04
Val 134	YA37207	106C/4,5	28/07/78	19/01/00	19/01/04
Val 135	YA37208	106C/4,5	28/07/78	19/01/00	19/01/04
Val 136	YA37209	106C/4,5	28/07/78	19/01/00	19/01/04
Val 137	YA37210	106C/4,5	28/07/78	19/01/00	19/01/04
Val 138	YA37211	106C/4,5	28/07/78	19/01/00	19/01/04
Val 139	YA37212	106C/4,5	28/07/78	19/01/00	19/01/04
Val 140	YA37213	106C/4,5	28/07/78	19/01/00	19/01/04
Val 141	YA37214	106C/4,5	28/07/78	19/01/00	19/01/04
Val 142	YA37215	106C/4,5	28/07/78	19/01/00	19/01/04
Val 143	YA37216	106C/4,5	28/07/78	19/01/00	19/01/04
Val 144	YA37217	106C/4,5	28/07/78	19/01/00	19/01/04
Val 163	YA37236	106C/4,5	28/07/78	19/01/00	19/01/04
Val 165	YA37238	106C/4,5	28/07/78	19/01/00	19/01/04
Val 166	YA37239	106C/4,5	28/07/78	19/01/00	19/01/04
Val 167	YA37240	106C/4,5	28/07/78	19/01/00	19/01/04
Val 168	YA37241	106C/4,5	28/07/78	19/01/00	19/01/04
Val 169	YA37242	106C/4,5	28/07/78	19/01/00	19/01/04
Val 170	YA37243	106C/4,5	28/07/78	19/01/00	19/01/04
Val 171	YA37244	106C/4,5	28/07/78	19/01/00	19/01/04
Val 172	YA37245	106C/4,5	28/07/78	19/01/00	19/01/04
Val 173	YA37246	106C/4,5	28/07/78	19/01/00	19/01/04
Val 174	YA37247	106C/4,5	28/07/78	19/01/00	19/01/04
Val 175	YA37248	106C/4,5	28/07/78	19/01/00	19/01/04
Val 176	YA37249	106C/4,5	28/07/78	19/01/00	19/01/04
Val 177	YA37250	106C/4,5	28/07/78	19/01/00	19/01/04
Val 178	YA37251	106C/4,5	28/07/78	19/01/00	19/01/04
Val 179	YA37252	106C/4,5	28/07/78	19/01/00	19/01/04
Val 180	YA37253	106C/4,5	28/07/78	19/01/00	19/01/04
Val 205	YA37278	106C/4,5	28/07/78	19/01/00	19/01/04
Val 206	YA37279	106C/4,5	28/07/78	19/01/00	19/01/04
Val 207	YA37280	106C/4,5	28/07/78	19/01/00	19/01/04

Schedule of Val Claims
MCK-YK-01

Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Val 208	YA37281	106C/4,5	28/07/78	19/01/00	19/01/04
Val 209	YA37282	106C/4,5	28/07/78	19/01/00	19/01/04
Val 210	YA37283	106C/4,5	28/07/78	19/01/00	19/01/04
Val 211	YA37284	106C/4,5	28/07/78	19/01/00	19/01/04
Val 212	YA37285	106C/4,5	28/07/78	19/01/00	19/01/04
Val 213	YA37286	106C/4,5	28/07/78	19/01/00	19/01/04
Val 214	YA37287	106C/4,5	28/07/78	19/01/00	19/01/04
Val 215	YA37288	106C/4,5	28/07/78	19/01/00	19/01/04
Val 216	YA37289	106C/4,5	28/07/78	19/01/00	19/01/04
Val 217	YA37290	106C/4,5	28/07/78	19/01/00	19/01/04
Val 218	YA37291	106C/4,5	28/07/78	19/01/00	19/01/04
Val 219	YA37292	106C/4,5	28/07/78	19/01/00	19/01/04
Val 220	YA37293	106C/4,5	28/07/78	19/01/00	19/01/04
Val 221	YA37294	106C/4,5	28/07/78	19/01/00	19/01/04
Val 222	YA37295	106C/4,5	28/07/78	19/01/00	19/01/04
Val 247	YA37320	106C/4,5	28/07/78	19/01/00	19/01/04
Val 249	YA37322	106C/4,5	28/07/78	19/01/00	19/01/04
Val 251	YA37324	106C/4,5	28/07/78	19/01/00	19/01/04
Val 253	YA37326	106C/4,5	28/07/78	19/01/00	19/01/04
Val 255	YA37328	106C/4,5	28/07/78	19/01/00	10/01/04
Val 257	YA37330	106C/4,5	28/07/78	19/01/00	19/01/04
Val 259	YA37332	106C/4,5	28/07/78	19/01/00	19/01/04
Val 261	YA37334	106C/4,5	28/07/78	19/01/00	19/01/04
Val 263	YA37336	106C/4,5	28/07/78	19/01/00	19/01/04
Val Claims in this list		162			
Val 295	YA37954	106C/4,5	28/07/78	19/01/02	19/01/07
Val 296	YA37955	106C/4,5	28/07/78	19/01/02	19/01/07
Val 297	YA37956	106C/4,5	28/07/78	19/01/02	19/01/07
Val 298	YA37957	106C/4,5	28/07/78	19/01/02	19/01/07
Val 307	YA37966	106C/4,5	28/07/78	19/01/02	19/01/07
Val 308	YA37967	106C/4,5	28/07/78	19/01/02	19/01/07
Val 309	YA37968	106C/4,5	28/07/78	19/01/02	19/01/07
Val 310	YA37969	106C/4,5	28/07/78	19/01/02	19/01/07
Val Claims in this list		8			

Total Number of Val Claims	170
Total Area of Claims in Hectares	3553

25/01/00

Schedule of Rusty Claims
MCK-YK-01

Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Rusty 1	YB99989	106C/5	27/10/97	27/10/03	27/10/06
Rusty 2	YB99990	106C/5	27/10/97	27/10/03	27/10/06
Rusty 3	YB99991	106C/5	27/10/97	27/10/03	27/10/06
Rusty 4	YB99992	106C/5	27/10/97	27/10/03	27/10/06
Rusty 5	YB99993	106C/5	27/10/97	27/10/03	27/10/06
Rusty 6	YB99994	106C/5	27/10/97	27/10/03	27/10/06
Rusty 11	YB99999	106C/5	27/10/97	27/10/03	27/10/06
Rusty 12	YC00001	106C/5	27/10/97	27/10/03	27/10/06
Rusty 13	YC00002	106C/5	27/10/97	27/10/03	27/10/06
Rusty 14	YC00003	106C/5	27/10/97	27/10/03	27/10/06
Rusty 15	YC00004	106C/5	27/10/97	27/10/03	27/10/06
Rusty 16	YC00005	106C/5	27/10/97	27/10/03	27/10/06
Rusty 17	YC00006	106C/5	27/10/97	27/10/03	27/10/06
Rusty 18	YC00007	106C/5	27/10/97	27/10/03	27/10/06
Rusty 19	YC00008	106C/5	27/10/97	27/10/03	27/10/06
Rusty 20	YC00009	106C/5	27/10/97	27/10/03	27/10/06
Rusty 21	YC00010	106C/5	27/10/97	27/10/03	27/10/06
Rusty 22	YC00011	106C/5	27/10/97	27/10/03	27/10/06
Rusty 23	YC00012	106C/5	27/10/97	27/10/03	27/10/06
Rusty 24	YC00013	106C/5	27/10/97	27/10/03	27/10/06
Rusty 25	YC00014	106C/5	27/10/97	27/10/03	27/10/06
Rusty 26	YC00015	106C/5	27/10/97	27/10/03	27/10/06
Rusty 27	YC00016	106C/5	27/10/97	27/10/03	27/10/06
Rusty 28	YC00017	106C/5	27/10/97	27/10/03	27/10/06
Rusty 29	YC00018	106C/5	27/10/97	27/10/03	27/10/06
Rusty 30	YC00019	106C/5	27/10/97	27/10/03	27/10/06
Rusty 31	YC00020	106C/5	27/10/97	27/10/03	27/10/06
Rusty 32	YC00021	106C/5	27/10/97	27/10/03	27/10/06
Rusty 33	YC00022	106C/5	27/10/97	27/10/03	27/10/06
Rusty 34	YC00023	106C/5	27/10/97	27/10/03	27/10/06
Rusty 35	YC00024	106C/5	27/10/97	27/10/03	27/10/06
Rusty 36	YC00025	106C/5	27/10/97	27/10/03	27/10/06
Rusty 37	YC00026	106C/5	27/10/97	27/10/03	27/10/06
Rusty 38	YC00027	106C/5	27/10/97	27/10/03	27/10/06
Rusty 39	YC00028	106C/5	27/10/97	27/10/03	27/10/06
Rusty 40	YC00029	106C/5	27/10/97	27/10/03	27/10/06

Schedule of Rusty Claims
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Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Rusty 41	YC00030	106C/5	27/10/97	27/10/03	27/10/06
Rusty 42	YC00031	106C/5	27/10/97	27/10/03	27/10/06
Rusty 43	YC00032	106C/5	27/10/97	27/10/03	27/10/06
Rusty 44	YC00033	106C/5	27/10/97	27/10/03	27/10/06
Rusty 45	YC00034	106C/5	27/10/97	27/10/03	27/10/06
Rusty 46	YC00035	106C/5	27/10/97	27/10/03	27/10/06
Rusty 47	YC00036	106C/5	27/10/97	27/10/03	27/10/06
Rusty 48	YC00037	106C/5	27/10/97	27/10/03	27/10/06
Rusty 49	YC00038	106C/5	27/10/97	27/10/03	27/10/06
Rusty 50	YC00039	106C/5	27/10/97	27/10/03	27/10/06
Rusty 51	YC00040	106C/5	27/10/97	27/10/03	27/10/06
Rusty 52	YC00041	106C/5	27/10/97	27/10/03	27/10/06
Rusty 53	YC00042	106C/5	27/10/97	27/10/03	27/10/06
Rusty 54	YC00043	106C/5	27/10/97	27/10/03	27/10/06
Rusty 55	YC00044	106C/5	27/10/97	27/10/03	27/10/06
Rusty 56	YC00045	106C/5	27/10/97	27/10/03	27/10/06
Rusty 57	YC00046	106C/5	27/10/97	27/10/03	27/10/06
Rusty 58	YC00047	106C/5	27/10/97	27/10/03	27/10/08
Rusty 59	YC00048	106C/5	27/10/97	27/10/03	27/10/08
Rusty 60	YC00049	106C/5	27/10/97	27/10/03	27/10/08
Rusty 61	YC00050	106C/5	27/10/97	27/10/03	27/10/08
Rusty 62	YC00051	106C/5	27/10/97	27/10/03	27/10/08
Rusty 63	YC00052	106C/5	27/10/97	27/10/03	27/10/06
Rusty 64	YC00053	106C/5	27/10/97	27/10/03	27/10/08
Rusty 65	YC00054	106C/5	27/10/97	27/10/03	27/10/06
Rusty 66	YC00055	106C/5	27/10/97	27/10/03	27/10/08
Rusty 67	YC00056	106C/5	27/10/97	27/10/03	27/10/06
Rusty 68	YC00057	106C/5	27/10/97	27/10/03	27/10/06
Rusty 69	YC00058	106C/5	27/10/97	27/10/03	27/10/06
Rusty 70	YC00059	106C/5	27/10/97	27/10/03	27/10/06
Rusty 71	YC00060	106C/5	27/10/97	27/10/03	27/10/06
Rusty 72	YC00061	106C/5	27/10/97	27/10/03	27/10/06
Rusty 73	YC00062	106C/5	27/10/97	27/10/03	27/10/08
Rusty 74	YC00063	106C/5	27/10/97	27/10/03	27/10/08
Rusty 75	YC00064	106C/5	27/10/97	27/10/03	27/10/08
Rusty 76	YC00065	106C/5	27/10/97	27/10/03	27/10/08

Schedule of Rusty Claims
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Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Rusty 77	YC00066	106C/5	27/10/97	27/10/03	27/10/06
Rusty 78	YC00067	106C/5	27/10/97	27/10/03	27/10/06
Rusty 79	YC00068	106C/5	27/10/97	27/10/03	27/10/06
Rusty 80	YC00069	106C/5	27/10/97	27/10/03	27/10/06
Rusty 81	YC00070	106C/5	27/10/97	27/10/03	27/10/06
Rusty 82	YC00071	106C/5	27/10/97	27/10/03	27/10/06
Rusty 83	YC00072	106C/5	27/10/97	27/10/03	27/10/06
Rusty 84	YC00073	106C/5	27/10/97	27/10/03	27/10/06
Rusty 85	YC00074	106C/5	27/10/97	27/10/03	27/10/06
Rusty 86	YC00075	106C/5	27/10/97	27/10/03	27/10/06
Rusty 87	YC00076	106C/5	27/10/97	27/10/03	27/10/06
Rusty 88	YC00077	106C/5	27/10/97	27/10/01	27/10/06
Rusty 89	YC00078	106C/5	27/10/97	27/10/01	27/10/06
Rusty 90	YC00079	106C/5	27/10/97	27/10/01	27/10/06
Rusty 91	YC00080	106C/5	27/10/97	27/10/01	27/10/06
Rusty 92	YC00081	106C/5	27/10/97	27/10/01	27/10/04
Rusty 93	YC00082	106C/5	27/10/97	27/10/03	27/10/06
Rusty 94	YC00083	106C/5	27/10/97	27/10/03	27/10/06
Rusty 95	YC00084	106C/5	27/10/97	27/10/03	27/10/06
Rusty 96	YC00085	106C/5	27/10/97	27/10/03	27/10/06
Rusty 97	YC00086	106C/5	27/10/97	27/10/03	27/10/06
Rusty 98	YC00087	106C/5	27/10/97	27/10/03	27/10/06
Rusty 99	YC00088	106C/5	27/10/97	27/10/03	27/10/06
Rusty 100	YC00089	106C/5	27/10/97	27/10/03	27/10/08
Rusty 101	YC00090	106C/5	27/10/97	27/10/03	27/10/08
Rusty 102	YC00091	106C/5	27/10/97	27/10/03	27/10/08
Rusty 103	YC00092	106C/5	27/10/97	27/10/03	27/10/08
Rusty 104	YC00093	106C/5	27/10/97	27/10/03	27/10/08
Rusty 105	YC00094	106C/5	27/10/97	27/10/03	27/10/08
Rusty 106	YC00095	106C/5	27/10/97	27/10/03	27/10/08
Rusty 107	YC00096	106C/5	27/10/97	27/10/03	27/10/08
Rusty 108	YC00097	106C/5	27/10/97	27/10/03	27/10/08
Rusty 109	YC00098	106C/5	27/10/97	27/10/03	27/10/08
Rusty 110	YC00099	106C/5	27/10/97	27/10/03	27/10/08
Rusty 111	YC00100	106C/5	27/10/97	27/10/03	27/10/08
Rusty 112	YC00101	106C/5	27/10/97	27/10/03	27/10/08

Schedule of Rusty Claims
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Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Rusty 113	YC00102	106C/5	27/10/97	27/10/03	27/10/08
Rusty 114	YC00103	106C/5	27/10/97	27/10/03	27/10/08
Rusty 115	YC00104	106C/5	27/10/97	27/10/03	27/10/08
Rusty 116	YC00105	106C/5	27/10/97	27/10/03	27/10/06
Rusty 117	YC00106	106C/5	27/10/97	27/10/03	27/10/06
Rusty 118	YC00107	106C/5	27/10/97	27/10/03	27/10/06
Rusty 119	YC00108	106C/5	27/10/97	27/10/03	27/10/06
Rusty 120	YC00109	106C/5	27/10/97	27/10/03	27/10/06
Rusty 121	YC00110	106C/5	27/10/97	27/10/03	27/10/06
Rusty 122	YC00111	106C/5	27/10/97	27/10/03	27/10/06
Rusty 123	YC00112	106C/5	27/10/97	27/10/03	27/10/06
Rusty 124	YC00113	106C/5	27/10/97	27/10/03	27/10/06
Rusty 125	YC00114	106C/5	27/10/97	27/10/03	27/10/06
Rusty 126	YC00115	106C/5	27/10/97	27/10/03	27/10/08
Rusty 127	YC00116	106C/5	27/10/97	27/10/03	27/10/08
Rusty 128	YC00117	106C/5	27/10/97	27/10/03	27/10/06
Rusty 129	YC00118	106C/5	27/10/97	27/10/03	27/10/06
Rusty 130	YC00119	106C/5	27/10/97	27/10/03	27/10/08
Rusty 131	YC00120	106C/5	27/10/97	27/10/03	27/10/06
Rusty 132	YC01469	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 133	YC01470	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 134	YC01471	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 135	YC01472	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 136	YC01473	106C/5	09/16/98	09/16/1999	09/16/2004
Rusty 137	YC01474	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 138	YC01475	106C/5	09/16/98	09/16/1999	09/16/2004
Rusty 139	YC01476	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 140	YC01477	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 141	YC01478	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 142	YC01479	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 143	YC01480	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 144	YC01481	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 145	YC01482	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 146	YC01483	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 147	YC01484	106C/5	09/16/98	09/16/1999	09/16/2002

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Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Rusty 148	YC01485	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 149	YC01486	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 150	YC01487	106C/5	09/16/98	09/16/1999	09/16/2004
Rusty 151	YC01488	106C/5	09/16/98	09/16/1999	09/16/2004
Rusty 152	YC01489	106C/5	09/16/98	09/16/1999	09/16/2004
Rusty 153	YC01490	106C/5	09/16/98	09/16/1999	09/16/2004
Rusty 154	YC01491	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 155	YC01492	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 156	YC01493	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 157	YC01494	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 162	YC01499	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 163	YC01500	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 164	YC01501	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 165	YC01502	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 166	YC01503	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 167	YC01504	106C/5	09/16/98	n/a	LAPSED
Rusty 168	YC01505	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 169	YC01506	106C/5	09/16/98	n/a	LAPSED
Rusty 170	YC01507	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 171	YC01508	106C/5	09/16/98	n/a	LAPSED
Rusty 172	YC01509	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 173	YC01510	106C/5	09/16/98	09/16/1999	09/16/2004
Rusty 174	YC01511	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 175	YC01512	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 176	YC01513	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 177	YC01514	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 178	YC01515	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 179	YC01516	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 180	YC01517	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 181	YC01518	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 182	YC01519	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 183	YC01520	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 184	YC01521	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 185	YC01522	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 186	YC01523	106C/5	09/16/98	09/16/1999	09/16/2002

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Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Rusty 187	YC01524	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 188	YC01525	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 189	YC01526	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 190	YC01527	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 191	YC01528	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 192	YC01529	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 193	YC01530	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 194	YC01531	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 195	YC01532	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 196	YC01533	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 197	YC01534	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 198	YC01535	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 199	YC01536	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 200	YC01537	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 201	YC01538	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 202	YC01539	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 203	YC01540	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 204	YC01541	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 205	YC01542	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 206	YC01543	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 207	YC01544	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 208	YC01545	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 209	YC01546	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 210	YC01547	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 211	YC01548	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 212	YC01549	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 213	YC01550	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 214	YC01551	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 215	YC01552	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 216	YC01553	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 217	YC01554	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 218	YC01555	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 219	YC01556	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 220	YC01557	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 221	YC01558	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 222	YC01559	106C/5	09/16/98	09/16/1999	09/16/2002

Schedule of Rusty Claims
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Claim Name	Grant Number	NTS	Date Recorded	Expiry Date	Expiry Date after 1999 Assessment is Accepted
Rusty 223	YC01560	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 224	YC01561	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 225	YC01562	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 226	YC01563	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 227	YC01564	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 228	YC01565	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 229	YC01566	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 230	YC01567	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 231	YC01568	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 232	YC01569	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 233	YC01570	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 234	YC01571	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 235	YC01572	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 236	YC01573	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 237	YC01574	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 238	YC01575	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 239	YC01576	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 240	YC01577	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 241	YC01578	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 242	YC01579	106C/5	09/16/98	09/16/1999	09/16/2002
Rusty 243	YC01580	106C/5	09/16/98	09/16/1999	09/16/2002

Number of Rusty Claims Staked Oct. 27,1998	127
Number of Rusty Claims Staked Sept. 16, 1999	105
Total Number of Rusty Claims	232
Total Hectares	4848.8
Total Acres	11981.4

APPENDIX II

Quantec IP 1999 Logistical Survey Report (includes Maps)

Quantec IP Inc.
P.O. Box 580, 101 King Street
Porcupine, ON P0N 1C0
Phone (705) 235-2166
Fax (705) 235-2255

Quantec IP Incorporated

Geophysical Survey Logistical Report

Quantec

Regarding the GRADIENT REALSECTION ™ TDIP\RESISTIVITY SURVEYS over the VERA, VAL and CRAIG CLAIMS, Rackla Camp, near Mayo, Yukon Territory, on behalf of MANSON CREEK RESOURCES LTD., Calgary, Alberta

QIP QIP QIP QIP QIP

D. MacGillivray
C Williston
JMLegault
August, 1999
Project P-256

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LIST OF TABLES AND FIGURES

- **QIP Project No:** P-256
- **Project Name:** Rackla Camp Project
- **Grid Names:** Val, Vera and Craig Properties
- **Survey Period:** June 20TH to July 15TH, 1999
- **Survey Type:** Gradient/Realsection Time Domain Induced Polarization
- **Client:** MANSON CREEK RESOURCES LTD.
- **Client Address** 800, 5th Avenue SW., Suite 1000
  Calgary, Alberta
  T2P 3T6
- **Representatives:** Bruce Evans
- **Objectives:**

  Geophysical Objectives: Using IP/Resistivity, to detect and delineate favorable signatures associated with Cu-Zn-Pb base metal mineralization, based on their chargeability and resistivity characteristics. To assist in geologic mapping of lithology, structure and alteration, which may be significant, based on contrasting physical properties. This survey represents the second phase of a project initiated in the summer of 1998 (ref. QIP project P235-10/98).

  Selective Realsection detail-follow up was used to further characterize signatures of interest identified during the reconnaissance coverage for the purposes of ddh-targeting. The Gradient-Realsection technique was chosen based on its high resolution and deep penetration characteristics.

- **Report Type:** Logistical Report

2. General Survey Details

2.1 Location

- **Territory:** Yukon
- **Country:** Canada
- **Nearest Settlement:** Mayo, Yukon
- **NTS Map Reference #:** 106C/4,5

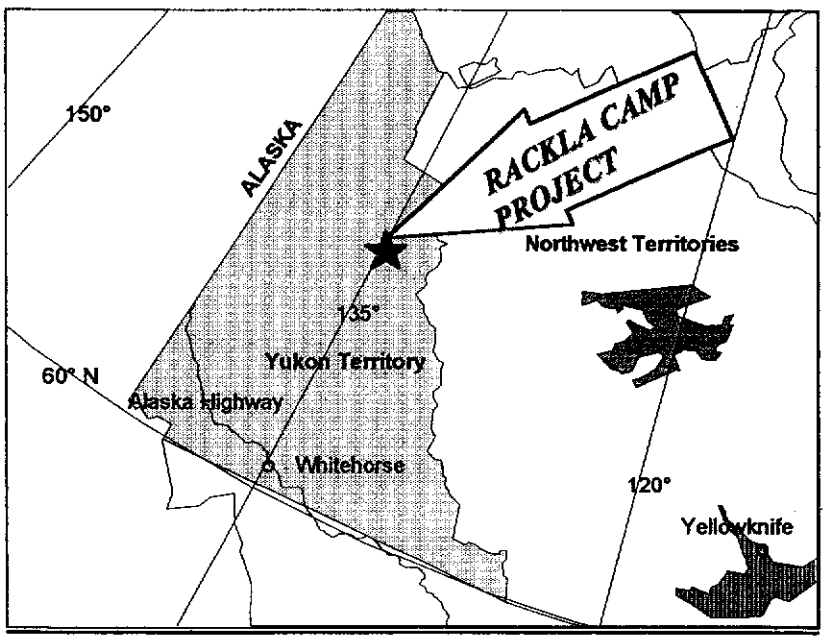


Figure 1: General Location of the Rackla Camp Project.

2.2 Access

- **Base of Operations:** Rackla Camp, Yukon
- **Mode of Access:** The grids were accessed by helicopter
  Val Grid - ≈35km west of base
  Vera Grid - ≈30km west of base
  Craig Grid - ≈15km south of base

2.3 Survey Grids

- **Coordinate Reference System:** Local exploration grid (non UTM referenced)
- **Established:** prior to survey execution
- **Line Direction:** Val Grid - N000 (E-W lines)
  Vera Grid - N350 (N-S lines)
  Craig Grid - N000 (N-S lines)
- **Line Separation:** 50 metres
- **Station Interval:** 25 metres
- **Method of Chaining:** Metric, slope distance

SURVEY PROCEDURE

3.1 GENERALITIES

- **Survey Dates:** June 20TH to July 15TH, 1999
- **Survey Period:** 26 days
- **Survey Days (read time):** 20 days
- **Mob/Demob Days:** 5 days
- **Weather Days:** 1 day
- **Survey Coverage:** 47.7 km (incl. Gradient, Realsection and overlap coverage on Vera, Val and Craig Grids)

3.2 PERSONNEL

- **Project Supervisor:** Kevin Blackshaw, Owen Sound, ON
- **Project Manager:** Kevin MacKenzie, Sydney, N.S.
- **Geophysical Assistant:** David MacGillivray, Timmins, ON
- **Field Assistants:** Two personnel supplied by client

3.3 SURVEY SPECIFICATIONS

- **Array:** Multiple Gradient (see Fig. 2)
- **AB (Tx dipole spacing):** up to 1000 metres
- **MN (Rx dipole spacing):** 12.5, 25 & 50 metres (2 test lines on Val Grid only)
- **Sampling Interval:** Val Grid - 25 metres with 12.5m RSIP detailing
  Vera Grid - 25 metres
  Craig Grid - 25 metres
- **Total Gradient Blocks:** Val Grid - 5 (B_1, B_2, B_3, $C_1 + C_2$)
  Vera Grid - 2 (B + C)
  Craig Grid - 2 (B + C)
- **No. of Realsection Arrays:** up to 7 AB changes/line
- **Total Realsections:** see Table II
- **Approximate Arial Coverage:** Val Grid - $\approx 0.9 km^2$
  Vera Grid - $\approx 0.3 km^2$
  Craig Grid - $\approx 0.3 km^2$

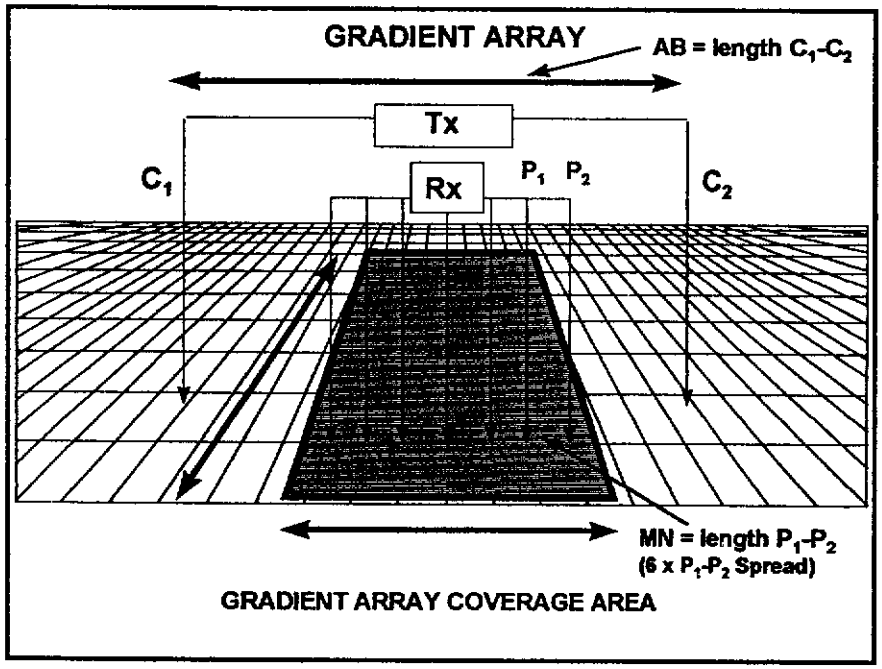


Figure 2: Gradient Array Layout.

3.4 SURVEY COVERAGE

1. **Reconnaissance IP (incl. overlap):** Val Grid - 20.35km (incl. 25+50m MN)
   Vera Grid - 6.65km
   Craig Grid - 7.4km (see Table I)

2. **"Realsection" Detail follow-up:** Val Grid - 7.075km
   Vera Grid - 3.375km
   Craig Grid - 2.85km (see Table II)

BLOCK	LINE	MIN EXTENT	MAX EXTENT	TOTAL (m)
VAL GRID	**50m MN**			
B_1	97+50N	91+00E	93+50E	250
"	98+00N	91+00E	92+25E	125
VAL GRID	**25m MN**			
$B_{1,2+3}$	94+50N	89+00E	104+00E	1800
"	95+00N	89+00E	104+00E	1800
"	95+50N	89+00E	104+00E	1800
"	96+00N	88+75E	103+75E	1800
"	96+50N	89+00E	104+00E	1800
"	97+00N	88+75E	103+75E	1800
"	97+50N	91+00E	104+00E	1600
"	98+00N	91+00E	104+00E	1600
C_{1+2}	99+50N	98+00E	104+00E	600
"	100+00N	92+25E	104+00E	1325
"	100+50N	92+00E	104+00E	1350
"	101+00N	92+00E	104+00E	1350
"	101+50N	92+00E	104+00E	1350
			TOTAL	**20350**
VERA GRID	**25m MN**			
B	51+50E	50+00N	58+00N	800
"	52+00E	50+00N	57+50N	750
"	52+50E	49+00N	58+00N	900
B+C	53+00E	49+00N	58+00N	1200
C	53+50E	50+50N	58+00N	750
"	54+00E	50+50N	58+00N	750
"	54+50E	50+00N	57+50N	750
"	55+00E	50+00N	57+50N	750
			TOTAL	**6650**
CRAIG GRID	**25m MN**			
	4+00W	1+00S	5+00N	600
	3+50W	1+00S	5+00N	600
	3+00W	1+00S	5+00N	600
	2+50W	1+00S	5+00N	600
	2+00W	0+50N	5+00N	450
	1+50W	0+50N	5+00N	450
	1+00W	0+50N	5+00N	750
	0+50W	1+50N	4+50N	300
	0+00W	0+00N	4+50N	600
	0+50E	1+50S	4+50N	600
	1+00E	1+50S	4+50N	600
	1+50E	1+50S	4+50N	700
	2+00E	1+50S	4+00N	550
			TOTAL	**7400**

Table I: Reconnaissance TDIP Survey Coverage (incl. overlap).

LINE	MIN EXTENT	MAX EXTENT	# DEPTH SLICES	TOTAL (m)
VAL GRID	**12.5 & 25m MN**			
96+00N	91+25E	96+25E	3	925
97+00N	92+00E	96+25E	3	1000
98+00N	91+00E	96+50E	3	1100
99+50N	98+75E	101+75E	1	300
100+00N	98+75E	104+00E	5	1312.5
100+50N	98+75E	104+00E	5	1262.5
101+00N	98+75E	104+00E	5	1175
			TOTAL	**7075**
VERA GRID	**25m MN**			
51+50E	50+00N	57+50N	6	1750
52+00E	50+00N	57+50N	6	1625
			TOTAL	**3375**
CRAIG GRID	**25m MN**			
3+00W	0+75S	2+25N	3	800
0+50E	0+00N	4+75N	5	1125
1+00E	0+50N	4+50N	3	925
			TOTAL	**2850**

No Section

Table II: Realsection TDIP Survey Coverage.

3.5 INSTRUMENTATION

- **Receiver:** Iris ELREC 10 (time domain / 10 channels)
- **Transmitter:** Phoenix IPT-1 (15 kW / 300-2400V output)
- **Power Supply:** Phoenix MG-3 (2.5KVA, 60V, 3 phase, 400 Hz) and 2.5 HP Honda motor generator

3.6 PARAMETERS

- **Input Waveform:** 0.125 Hz square wave at 50% duty cycle (2 seconds On/Off)
- **Receiver Sampling Parameters:** Quantec custom programmable windows (see Table III)
- **Measured Parameters**:

1) Chargeability in millivolts/Volt. Total Chargeability is calculated over an integration period of 40 to 1770ms (QIP windows).

2) Primary Voltage in millivolts and Input Current in amperes for Resistivity calculation according to the gradient array geometry factor (Appendix C).

Slice	Duration (msec)	Start (msec)	End (msec)	Mid-Point (msec)
Td	40	0	40	
T_1	20	40	60	50
T_2	30	60	90	75
T_3	30	90	120	105
T_4	30	120	150	135
T_5	180	150	330	240
T_6	180	330	510	420
T_7	180	510	690	600
T_8	360	690	1050	870
T_9	360	1050	1410	1230
T_{10}	360	1410	1770	1590
Total T_p	**1770**			

Table III: Decay Curve Sampling (QIP custom windows).

3.7 Measurement Accuracy and Repeatability

- **Chargeability**: generally< ± 0.5 mV/V but acceptable to ±1.0 mV/V.
- **Resistivity:** less than 5% cumulative error from Primary voltage and Input current measurements.

3.8 Data Presentation

- **Maps:**

Reconnaissance Coverage: Posted contoured plan maps of Total Chargeability, and Apparent Resistivity for each grid, compiled from all AB Blocks*, 1:2500 scale (6 plans)

"Realsection" Detail follow-up: Posted/contoured depth section maps of Total Chargeability and Apparent Resistivity (for lines having more than one detailed depth-level, 1:2500 scale (11 sections)

* Note: Val + Craig compilations present data from Phase I - P235 (08-09/98) + Phase II - P256 (06-07/99) of project.

- **Digital:**

  Raw data: Iris IP-10 digital dump file (Appendix D).

  Processed data: Geosoft .XYZ format.

  using the following format:

  Column 1 = Station/Line (X Position), in metres
  Column 2 = Station/Line (Y Position), in metres
  Column 3 = Total Chargeability, in mV/V
  Column 4 = Apparent Resistivity, in Ω-m
  Column >5 = TDIP Spectral Estimates, derived using IPREDC™

RESPECTFULLY SUBMITTED
QUANTEC IP INC.

Christine Williston
Geophysicist - QTS

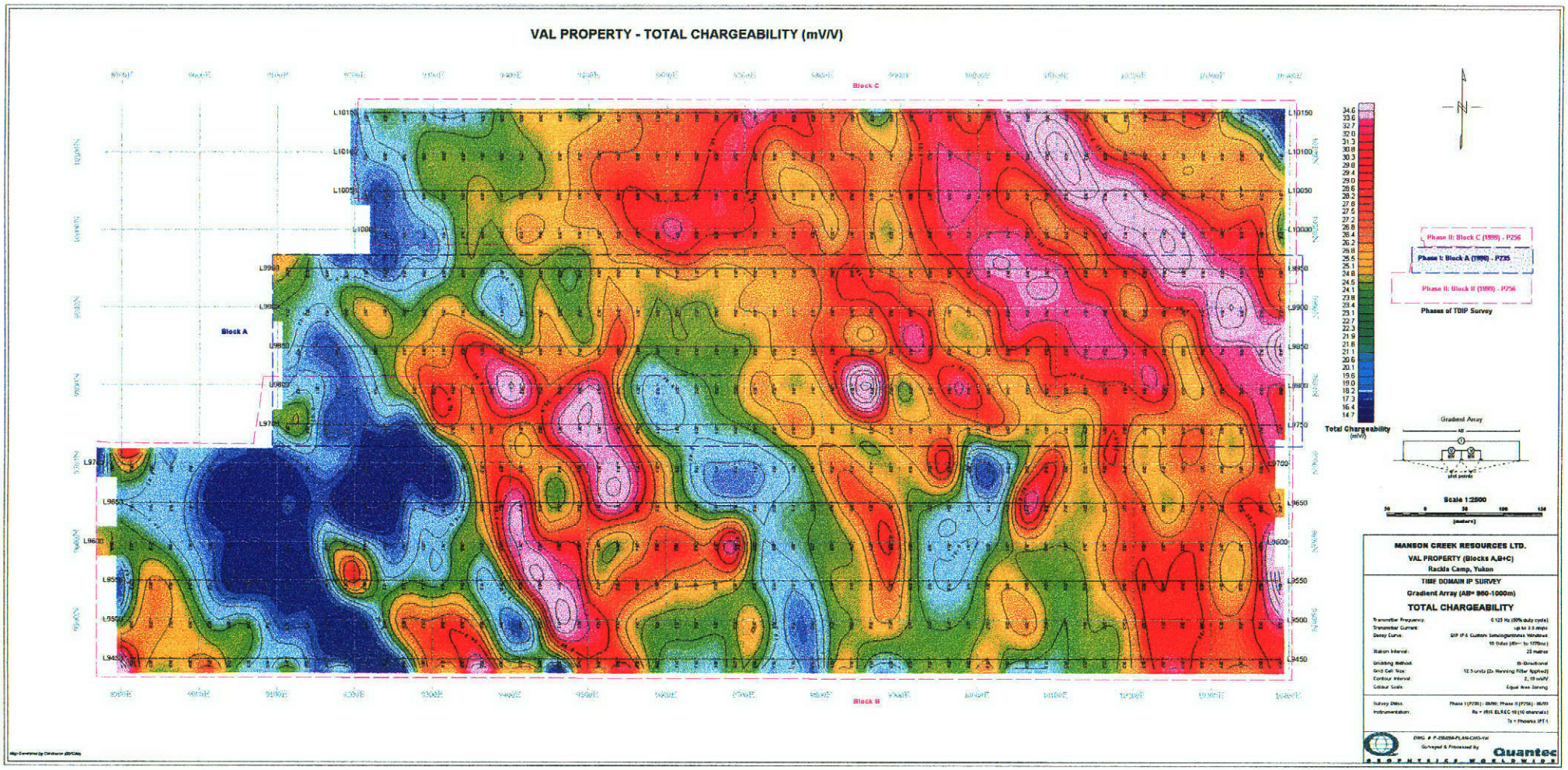
Jean M. Legault, P.Eng.
Dir. Technical Service – QTS

David MacGillivray
Geophysical Operator – QIP

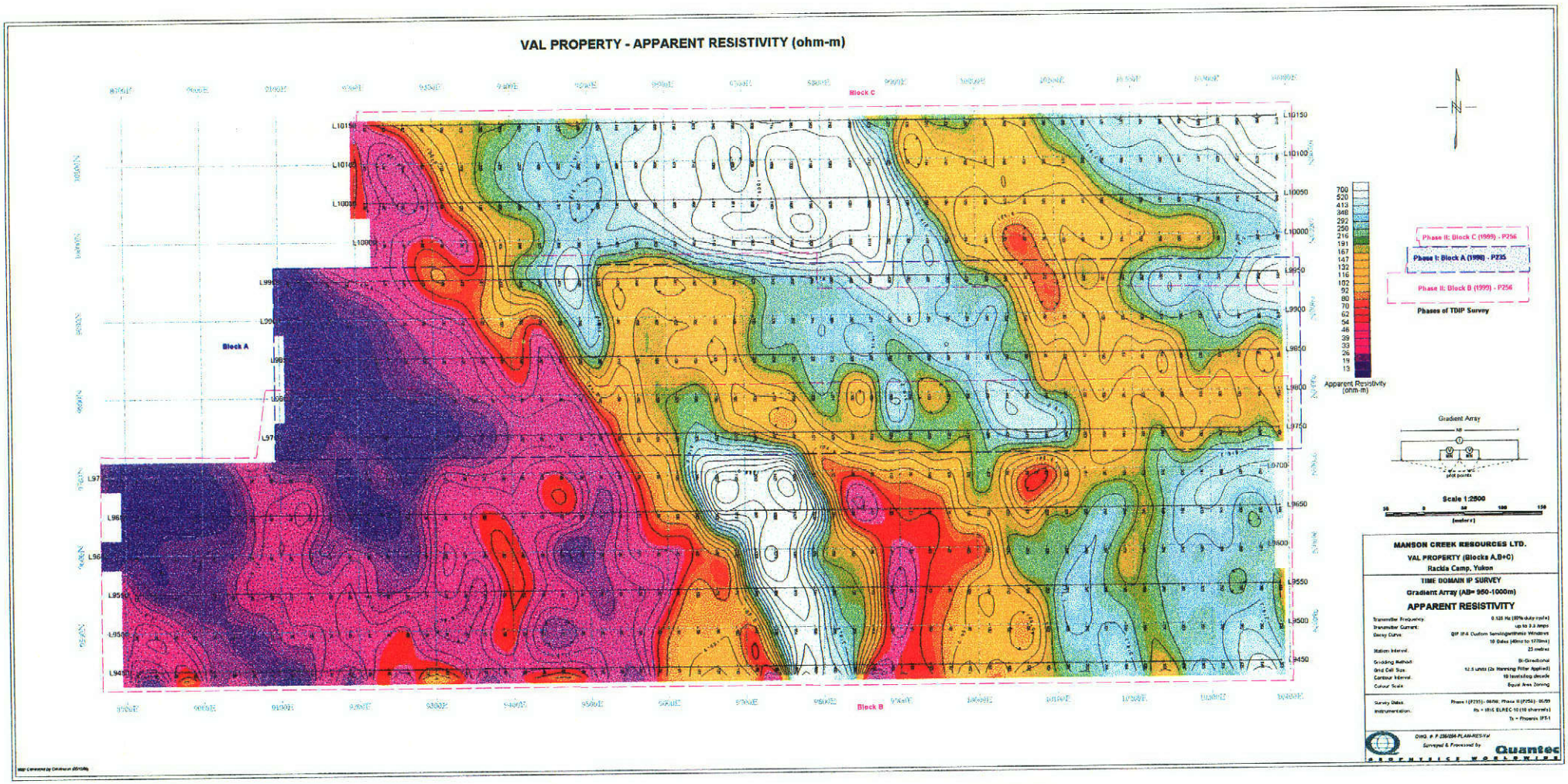
Kevin Blackshaw
Operations Manager - QIP

Porcupine, ON

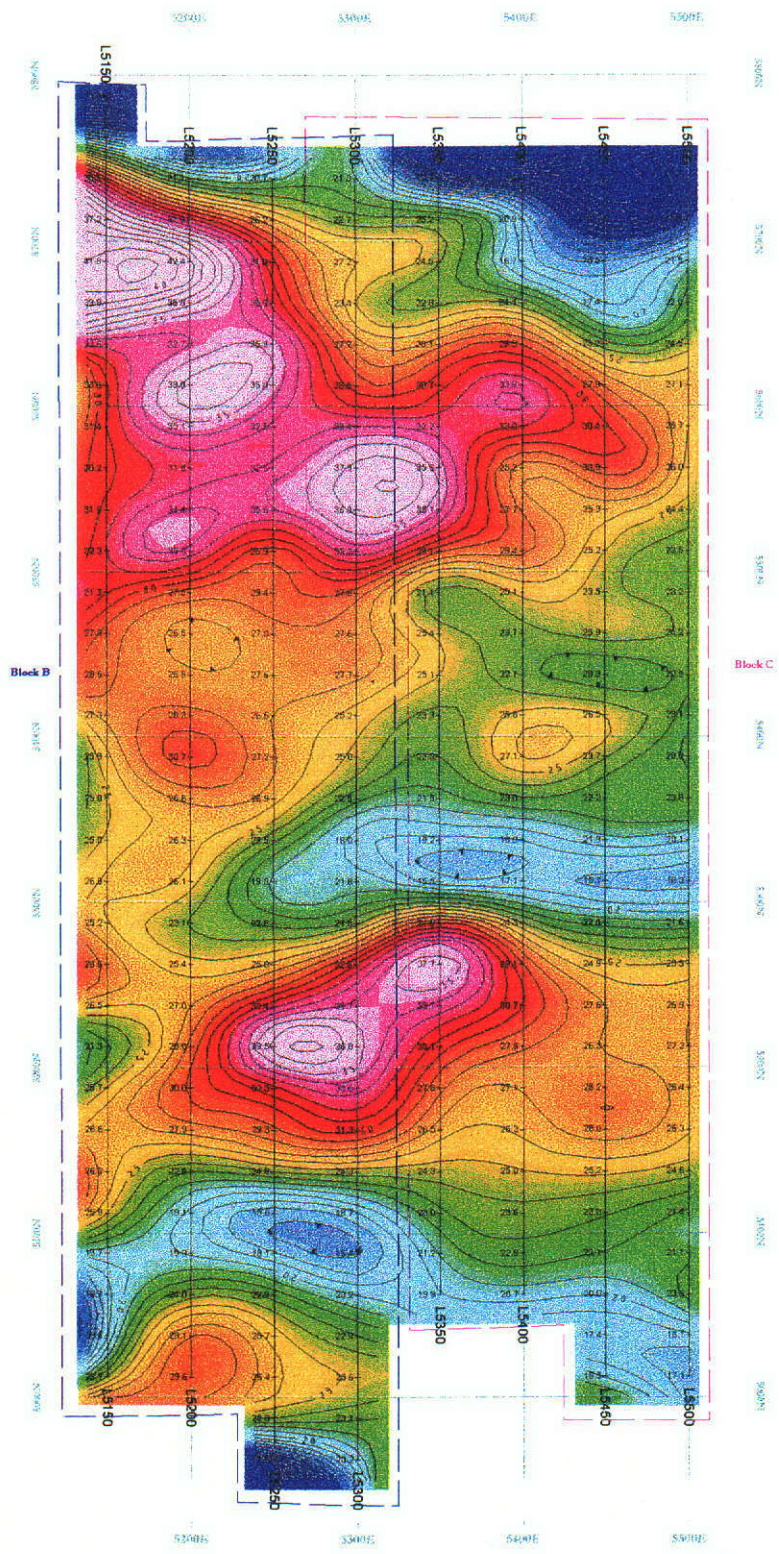
VAL PROPERTY - TOTAL CHARGEABILITY (mV/V)

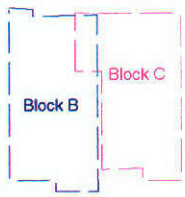


VAL PROPERTY - APPARENT RESISTIVITY (ohm-m)

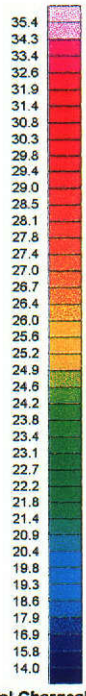


VERA PROPERTY - TOTAL CHARGEABILITY (mV/V)



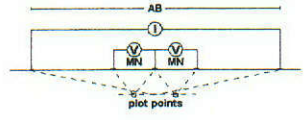


TDIP Blocks



Total Chargeability
(mV/V)

Gradient Array



Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

MANSON CREEK RESOURCES LTD.
VERA PROPERTY (Blocks A+B)
Rackla Camp, Yukon

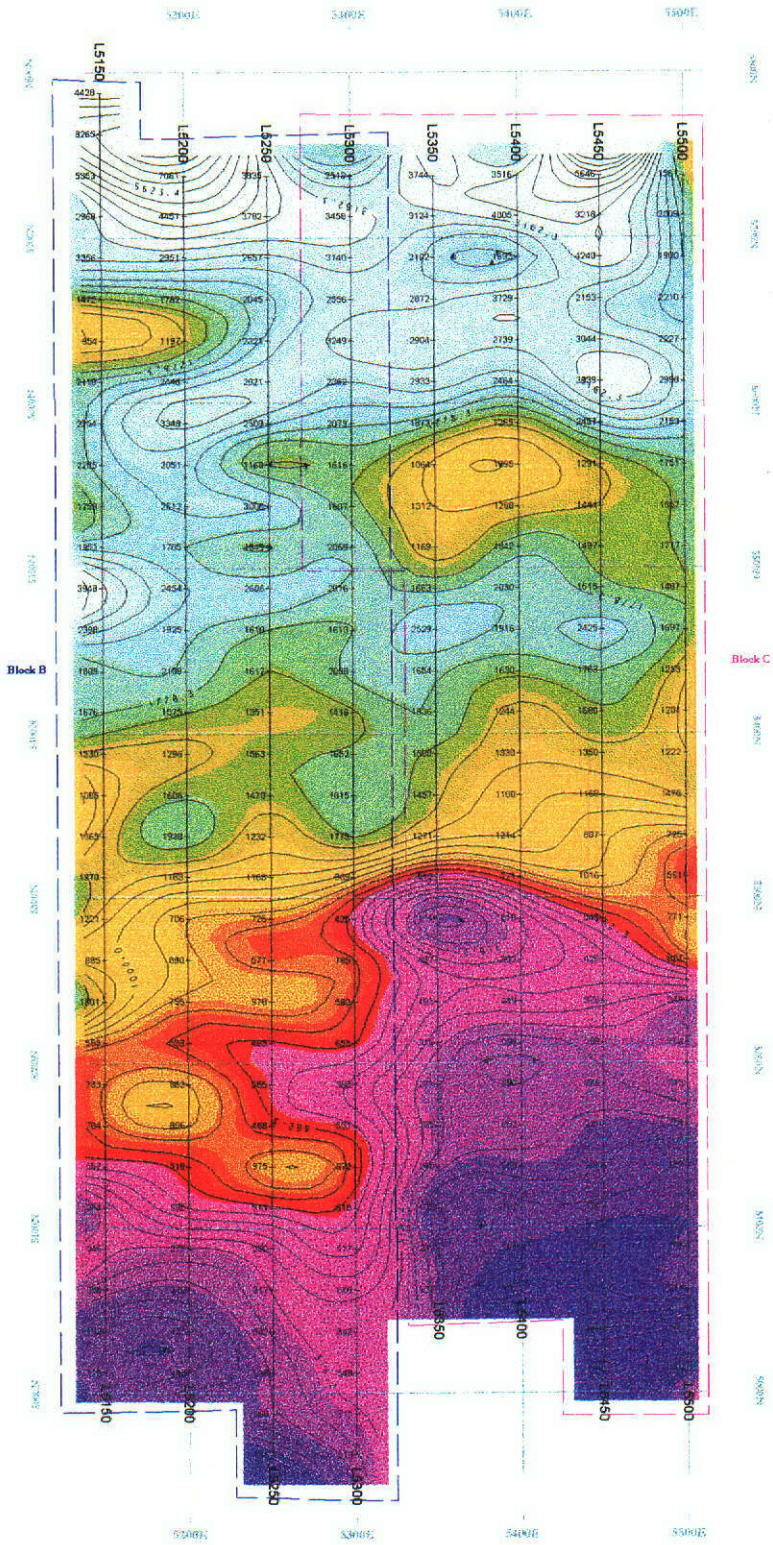
TIME DOMAIN IP SURVEY
Gradient Array (AB= 1000m)
TOTAL CHARGEABILITY

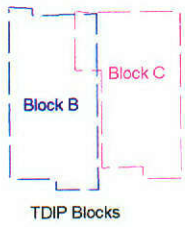
Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	up to 1.75 Amps
Decay Curve:	GIP IP-6 Custom Semilogarithmic Windows
	10 Gates (40ms to 1770ms)
Station Interval:	25 metres
Gridding Method:	Bi-Directional
Grid Cell Size:	12.5 units (2x Hanning Filter Applied)
Contour Interval:	1, 5 mV/V
Colour Scale:	Equal Area Zoning
Survey Dates:	July, 1999
Instrumentation:	Rx = IRIS ELREC-10 (10 channels)
	Tx = Phoenix IPT-1

DWG. #: P-266-PLAN-CHG-Vera
Surveyed & Processed by: Quantec
GEOPHYSICS WORLDWIDE

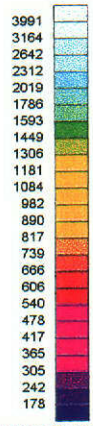
Map Generated by CWilkison (08/13/99)

VERA PROPERTY - APPARENT RESISTIVITY (ohm-m)

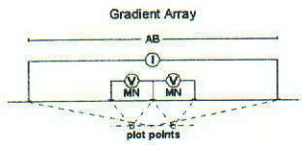




TDIP Blocks



Apparent Resistivity
(ohm-m)



Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

MANSON CREEK RESOURCES LTD.
VERA PROPERTY (Blocks A+B)
Rackla Camp, Yukon

TIME DOMAIN IP SURVEY
Gradient Array (AB= 1000m)
APPARENT RESISTIVITY

Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	up to 1.75 Amps
Decay Curve:	GIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	25 metres
Gridding Method:	Bi-Directional
Grid Cell Size:	12.5 units (2x Hanning Filter Applied)
Contour Interval:	20 levels/log decade
Colour Scale:	Equal Area Zoning
Survey Dates:	July, 1999
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

DWG. #: P-266-PLAN-RES-Vera
Surveyed & Processed by: Quantec
GEOPHYSICS WORLDWIDE

Map Generated by CWillston (08/13/99)

STATEMENT OF QUALIFICATIONS

I, Jean M. Legault, declare that:

1. I am a consulting geophysicist with residence in South Porcupine, Ontario and am presently employed in this capacity with Quantec IP Inc. of Waterdown, Ontario.

2. I obtained a Bachelor's Degree, with Honors, in Applied Science (B.A.Sc.), Geological Engineering (Geophysics Option), from Queen's University at Kingston, Ontario, in Spring 1982.

3. I am a registered professional engineer, since 1985, with license to practice in the Province of Ontario (#90534542).

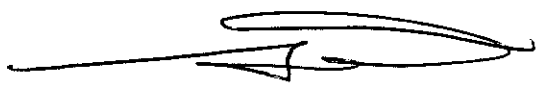
4. I have practiced my profession continuously since May,1982, in North-America, South-America and North-Africa.

5. I am a member of the Association of Professional Engineers of Ontario, the Northern Prospectors Association, the Prospectors and Developers Association of Canada, and the Society of Exploration Geophysicists.

6. I have no interest, nor do I expect to receive any interest in the properties or securities of **Manson Creek Resources Ltd.**

7. I have reviewed this logistics report and the maps contained. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.

Porcupine, Ontario
August, 1999



Jean M. Legault, P.Eng.
Chief Geophysicist
Dir. Technical Services
Quantec Group

STATEMENT OF QUALIFICATIONS

I, Christine Williston, hereby declare that:

1. I am a staff geophysicist with residence in South Porcupine, Ontario and am presently employed in this capacity with Quantec Consulting Inc. of Porcupine, Ontario.

2. I am a graduate of York University, North York, ON, in 1994, with an Honours Bachelor of Science Degree in Earth and Atmospheric Science.

3. I have practiced my profession in Canada since graduation.

4. I have no interest nor do I expect to receive any interest, direct or indirect, in the properties or securities of **Manson Creek Resources Ltd.**

5. I am the technical writer for this report and generated the final plots. The maps created and statements made by me in this report accurately represent the information given to me at the time of the preparation of this report.

Porcupine, Ontario
August, 1999

Christine Williston, B.Sc.
Geophysicist
Quantec Technical Services

THEORETICAL BASIS AND SURVEY PROCEDURES

GRADIENT REALSECTION INDUCED POLARIZATION SURVEY

The "RealSection" survey design uses multiple gradient arrays - with variable depths of investigation controlled by successive changes in array size/geometry. The method of data acquisition and the "RealSection" presentation are based on the specifications developed by Dr. Perparim Alikaj, of the Polytechnic University of Tirana, Albania, over the course of approx. 20 years of application. This technique has been further developed for application in Canada during the past six years, in association with Mr. Dennis Morrison, president of Quantec IP Inc.

The Gradient Array measurements are unique in that they best represent a bulk average of the surrounding physical properties within a relatively focused sphere of influence, roughly equal to the width of the receiver dipole, penetrating vertically downward from surface to great depths. These depth of penetration and lateral resolution characteristics are showcased when presented in plan, however through the use of multiple-spaced and focused arrays, the advantages of the gradient array are further highlighted when the IP/Resistivity data are fully developed in cross-section, using RealSections.

The resistivity is among the most variable of all geophysical parameters, with a range exceeding 10^6. Because most minerals are fundamentally insulators, with the exception of massive accumulations of metallic and submetallic ores (electronic conductors) which are rare occurrences, the resistivity of rocks depends primarily on their porosity , permeability and particularly the salinity of fluids contained (ionic conduction), according to Archie's Law. In contrast, the chargeability responds to the presence of polarizeable minerals (metals, submetallic sulphides and oxides, and graphite), in amounts as minute as parts per hundred. Both the quantity of individual chargeable grains present, and their distribution with in subsurface current flow paths are significant in controlling the level of response. The relationship of chargeability to metallic content is straightforward, and the influence of mineral distribution can be understood in geologic terms by considering two similar, hypothetical volumes of rock in which fractures constitute the primary current flow paths. In one, sulphides occur predominantly along fracture surfaces. In the second , the same volume percent of sulphides are disseminated throughout the rock. The second example will, in general, have significantly lower intrinsic chargeability.

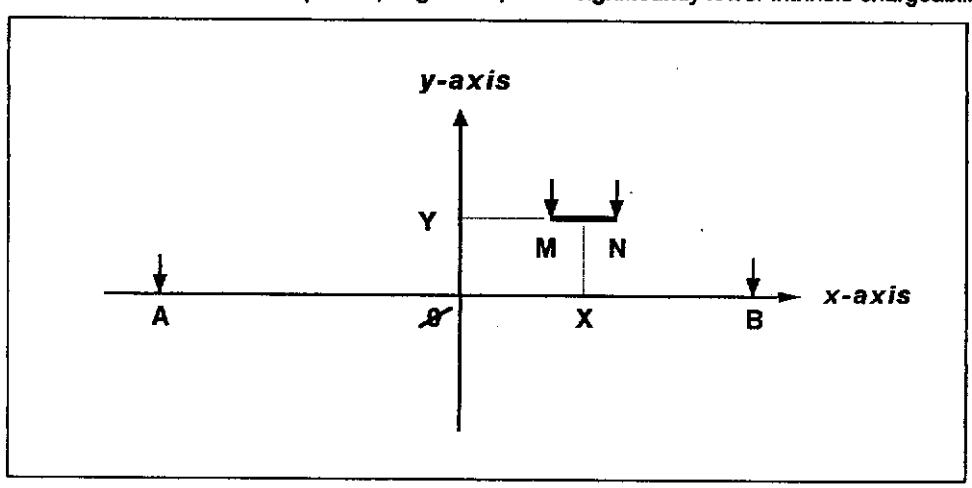


Figure B1: Gradient Array Configuration.

Using the diagram in Figure B1 for the gradient array electrode configuration and nomenclature:[1], the gradient array apparent resistivity is calculated:

where: the origin 0 is selected at the center of AB
the geometric parameters are in addition to a = AB/2 and b = MN/2
X is the abscissa of the mid-point of MN (positive or negative)
Y is the ordinate of the mid-point of MN (positive or negative)

Gradient Array Apparent Resistivity:

$$\rho_a = K\frac{VP}{I} \quad ohm\text{-}metres$$

$$where: \quad K = \frac{2\pi}{(AM^{-1} - AN^{-1} - BM^{-1} + BN^{-1})}$$

$$AM = \sqrt{(a+x-b)^2 + y^2}$$

$$AN = \sqrt{(a+x+b)^2 + y^2}$$

$$BM = \sqrt{(x-b-a)^2 + y^2}$$

$$BN = \sqrt{(x+b-a)^2 + y^2}$$

Using the diagram in Figure B2 for the Total Chargeability:

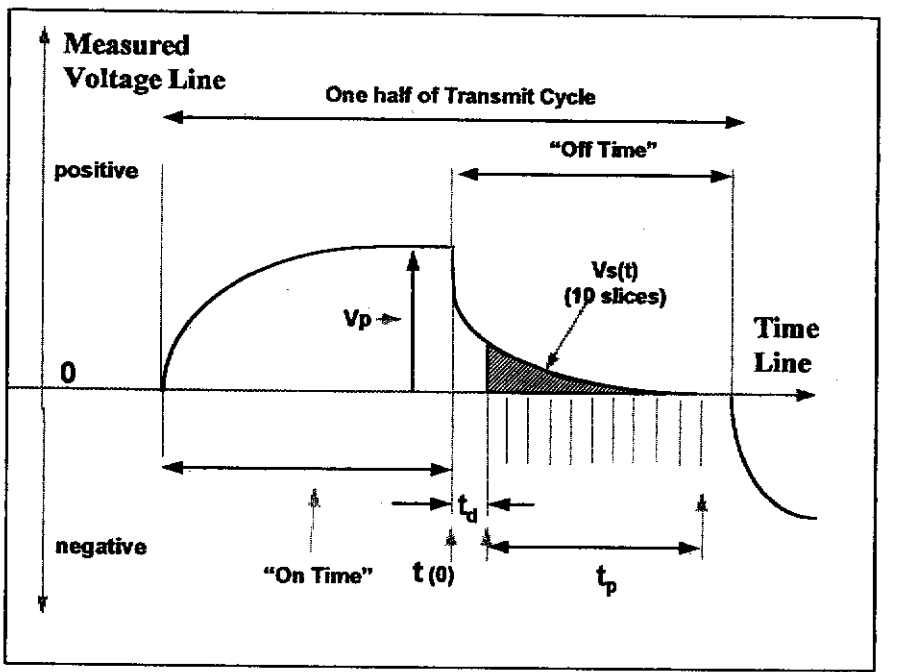


Figure B2: The measurement of the time-domain IP effect.

[1] From Terraplus\BRGM, IP-6 Operating Manual, Toronto, 1987.

the total apparent chargeability is given by:

Total Apparent Chargeability:[2]

$$M_T = \frac{1}{t_p V_P} \sum_{i=1 \text{ to } 10} \int_{t_i}^{t_{i+1}} Vs \ (t)\, dt \qquad \text{millivolts per volt}$$

where t_i, t_{i+1} are the beginning and ending times for each of the chargeability slices,

More detailed descriptions on the theory and application of the IP/Resistivity method can be found in the following reference papers:

Cogan, H., 1973, Comparison of IP electrode arrays, Geophysics, 38, p 737 - 761.

Langore, L., Alikaj, P., Gjovreku, D., 1989, Achievements in copper sulphide exploration in Albania with IP and EM methods, Geophysical Prospecting, 37, p 925 - 941.

[2] From Telford, et al., Applied Geophysics, Cambridge U Press, New York, 1983..

PRODUCTION LOG

DATE	DESCRIPTION	Block	Line	Start	End	Total (m)
	Client: Manson Creek Resources Ltd.					
	Property: Rackla Camp, Yukon					
	Project: P-256					
	Survey: Gradient\Realsection Survey					
20-Jun	Mobilization, Timmins to Camp Rackla, Yukon					
	VAL GRID					
21-Jun	Established 3 Gradient ABs (B_1, B_2, B_3)					
22-Jun	Survey – Reconnaissance 25m MN	B	98+00N	91+00E	10400E	1600
	TOTALS INCLUDE OVERLAP BETWEEN THE 3 ABs	B	97+50N	104+00E	91+00E	1600
	50 m MN	B	98+00N	91+00E	92+25E	125
		B	97+50N	93+50E	91+00E	250
23-Jun	Survey – Reconnaissance 25m MN	B	95+00N	89+00E	104+00E	1800
		B	95+50N	104+00E	89+00E	1800
24-Jun	Survey – Reconnaissance 25m MN	B	96+00N	88+75E	103+75E	1800
		B	96+50N	104+00E	89+00E	1800
		B	97+00N	88+75E	94+75E	650
25-Jun	A moose dragged off 150m of AB cable, 1.5 hours to repair					
	Survey – Reconnaissance 25m MN	B	97+00N	94+75E	103+75E	1150
	Established detail AB	B	94+50N	104+00E	89+00E	1800
26-Jun	Survey – Detail	B	96+00N	91+25E	96+25E	500
		B	97+00N	92+00E	96+25E	425
	Established detail AB	B	98+00N	91+00E	96+50E	550
	12.5m MN	B	98+00N	93+25E	95+75E	250
		B	97+00N	93+62.5E	96+12.5E	250
	Established detail AB	B	98+00N	92+75E	95+75E	300
		B	97+00N	92+87.5E	96+12.5E	325
27-Jun	Survey - Detail 12.5m MN	B	96+00N	93+00E	95+75E	275
	Established detail AB	B	96+00N	93+25E	94+75E	150
	Wound in AB cable and transported equip. to new TX site by helicopter					
	Established 2 detail ABs on Block C (C_1 + C_2)	C				
28-Jun	Survey – Reconnaissance 25m MN	C	101+50N	104+00E	92+00E	1350
	Survey suspended due to lightning in the afternoon (1/2 weather day)	C	101+00N	92+00E	95+00E	300
29-Jun	Survey – Reconnaissance 25m MN	C	101+00N	95+00E	104+00E	1050
		C	100+50N	104+00E	92+00E	1350
		C	100+00N	92+25E	104+00E	1325
		C	99+50N	104+00E	98+00E	600
30-Jun	Established detail AB	C	101+00N	98+75E	104+00E	525
	Survey - Detail 25m MN	C	100+50N	98+75E	104+00E	525
		C	100+00N	98+75E	104+00E	525
	Established detail AB	C	99+50N	98+75E	101+75E	300
	Survey - Detail 12.5m MN	C	101+00N	100+37.5E	102+00E	162.5
		C	100+50N	100+50E	102+50E	200
	Established detail AB	C	100+00N	101+00E	103+00E	200
	Survey - Detail 12.5m MN	C	101+00N	100+37.5E	102+00E	162.5
		C	100+50N	100+50E	102+50E	200
		C	100+00N	101+00E	103+00E	200
1-Jul	Established detail AB	C	101+00N	98+75E	100+37.5E	162.5
	Survey - Detail 12.5m MN	C	100+50N	98+75E	100+50E	175
		C	100+00N	98+75E	101+00E	225
	Established detail AB	C	101+00N	98+75E	100+37.5E	162.5
	Survey – Detail 12.5m MN	C	100+50N	98+75E	100+37.5E	162.5
	Wound in AB cable and moved the equipment to VERA Grid	C	100+00N	98+75E	100+37.5E	162.5
	VAL TOTAL					***27425***

DATE	DESCRIPTION	Block	Line	Start	End	Total (m)
	VERA GRID					
	Established 2 Gradient ABs (1 on Block B and 1 on Block C)	B+C				
2-Jul	Survey – Reconnaissance 25m MN	B	51+50E	58+00N	50+00N	800
	Receiver had insufficient charge due to camp generator break down	B	52+00E	50+00N	53+00N	300
3-Jul	Survey – Reconnaissance 25m MN	B	52+00E	53+00N	57+50N	450
		B	52+50E	56+50N	58+00N	150
		B	53+00E	55+00N	58+00N	300
		C	53+00E	55+00N	58+00N	300
		C	53+50E	56+50N	58+00N	150
		C	54+00E	56+50N	58+00N	150
		C	54+50E	50+00N	57+50N	750
		C	55+00E	50+00N	57+50N	750
4-Jul	Survey – Reconnaissance 25m MN	B	52+50E	56+50N	49+00N	750
	Survey - Detail 25m MN	B	53+00E	55+00N	49+00N	600
	Established detail AB	B	52+00E	57+50N	53+00N	450
	Established detail AB	B	52+00E	53+00N	50+00N	300
	Established detail AB	B	52+00E	57+50N	54+50N	300
	Established detail AB	B	52+00E	51+50N	50+00N	150
	Established detail AB	B	52+00E	57+50N	56+00N	150
	Established detail AB	B	52+00E	54+25N	51+50N	275
5-Jul	Survey - Detail 25m MN	B	51+50E	57+50N	53+00N	450
		B	51+50E	53+00N	50+00N	300
		B	51+50E	57+50N	54+50N	300
		B	51+50E	51+50N	50+00N	150
		B	51+50E	51+50N	54+50N	300
		B	51+50E	55+00N	57+50N	250
	Survey – Reconnaissance 25m MN	C	53+50E	56+50N	50+50N	600
	Wound in AB cable and prepared sling for following day	C	54+00E	56+50N	50+50N	600
	VERA TOTAL					***10025***
	CRAIG GRID					
6-Jul	Unable to sling equipment from Vera to Craig until 11am due to the availability of the helicopter. Established Gradient AB. Tested current, insufficient signal due to steep grade on the north tx location. Heavy rain and lightning late afternoon, survey suspended.					
7-Jul	Established gradient AB					
	Survey – Reconnaissance 25m MN	B	2+00E	4+00N	1+50S	550
		B	1+50E	1+50S	4+00N	550
	Overlap	B	1+50E	3+00N	4+50N	150
		B	1+00E	4+50N	1+50S	600
		B	0+50E	1+50S	4+50N	600
8-Jul	Survey – Reconnaissance 25m MN	B	0+00E	0+00N	4+50N	450
	Overlap	B	0+00E	3+00N	4+50N	150
		B	0+50W	4+50N	1+50N	300
		B	1+00W	1+50N	4+50N	300
	Established detail AB	B	0+50E	4+75N	0+50N	425
	Established detail AB	B	0+50E	3+50N	2+00N	150
	Established detail AB	B	0+50E	1+75N	0+50N	125
	Established detail AB	B	0+50E	4+75N	3+00N	175
	Established detail AB	B	0+50E	1+75N	0+50N	125
	Established detail AB	B	0+50E	4+75N	4+00N	75
	Established detail AB	B	0+50E	4+75N	4+25N	50
		B	1+00E	0+00N	4+50N	450
		B	1+00E	0+00N	1+75N	175
		B	1+00E	3+00N	4+50N	150
		B	1+00E	0+00N	1+50N	150
9-Jul	Wound in AB cable and prepared sling to move to the western block of Craig, the helicopter was not available to sling the equipment due to unfavorable weather conditions and relocating the drill. Established gradient AB					
10-Jul	Survey – Reconnaissance 25m MN	C	4+00W	1+00S	5+00N	600
		C	3+50W	1+00S	5+00N	600
		C	3+00W	1+00S	5+00N	600
		C	2+50W	1+00S	5+00N	600

DATE	DESCRIPTION	Block	Line	Start	End	Total (m)
		C	2+00W	0+50N	5+00N	450
		C	1+50W	0+50N	5+00N	450
	Overlap	C	1+00W	0+50N	5+00N	450
11-Jul	Survey - Detail 25m MN					
	Established detail AB	C	3+00W	0+75S	2+25N	300
	Established detail AB	C	3+00W	0+75S	1+75N	250
	Established detail AB. Wound up AB+ moved equipment back to camp	C	3+00W	0+75S	1+75N	250
	CRAIG TOTAL					***10250***
12-Jul	Prepared equipment for demob. Demob camp Rackla to Whitehorse					
13-Jul	No flights available to Timmins due to flight cancellations. Prepared equipment for freight to Timmins.					
14-Jul	Demob Whitehorse to Toronto					
15-Jul	Demob Toronto to Timmins					

INSTRUMENT SPECIFICATIONS

Iris ELREC 10 Receiver
(From Iris ELREC 10 Operating Manual)

Weather proof case

Dimensions:	31.0 cm x 21.0 cm x 25.0 cm
Weight:	9.0 kg (with internal battery)
Operating temperature:	-30°C to 70°C
Storage:	(-30°C to 50°C)
Power supply:	1 x 12.0 V external battery (30 hr. @ 20°C) or 2 x 6.0 V NiCad rechargeable (20 hr. @ 25°C) or
Input channels:	10
Input impedance:	10 Mohm
Input over voltage protection:	up to 1000 volts
Input voltage range:	10 V maximum on each dipole 15 V maximum sum over ch. 1 to 10
SP compensation:	Automatic ± 15 V with linear drift correction
Noise rejection:	100 dB common mode rejection (for Rs= 0) automatic stacking
Primary voltage resolution:	1 μV after stacking
accuracy:	0.3% typically; maximum 1 over whole temperature range
Secondary voltage windows:	up to 20 windows; preset window specs for Cole-Cole parameter analysis.
Sampling rate:	10 ms
Synchronization accuracy:	10 ms, minimum 40 μV
Chargeability resolution:	0.1 mV/V
accuracy:	typically 0.6%. maximum 2% of reading ± 1 mV/V for V_p > 10 mV
Battery test:	manual and automatic before each measurement
Grounding resistance:	0.1 to 100 kohm
Memory capacity:	3200 records, 1 dipole/record
Data transfer:	serial link @ 300 to 19200 baud

Iris Elrec 10 Dump File Format:

```
operator: DMG
sites: VERA
comments:

Number of channels:       6
Synchr channel:       1
Stacks min.:     100
Stacks max.:     100
Quality factor max.:       0
Voltage sign:                    unsigned
IP values:                         raw
Array type:          gradient rectangle
Spacing unit:                      meter
Operating mode:                    Rx only
Injection time:                    2000 ms
IP Mode:                 programmable

    timing (ms) mdly =  40

     TM1/5      :     TM6/10      :     TM11/15     :     TM16/20     :
----------------:-----------------:-----------------:-----------------:
       20       :       180       :        0        :        0        :
       30       :       180       :        0        :        0        :
       30       :       360       :        0        :        0        :
       30       :       360       :        0        :        0        :
       180      :       360       :        0        :        0        :

    time = 2000
    mdly = 1260


--------------------------------------------------------------------------------

Channel: 1  Date: 07/05/1999 09:47:06
Spacing (meter): XP  : 5000    li.P: 5150    D   : 25    XA  : 5275    XB  : 4800    l.AB:
5200
Rs:     2.22 kohm

      M1/5      :      M6/10      :      M11/15     :      M16/20     :
----------------:-----------------:-----------------:-----------------:
       66.25    :       29.30     :        0.00     :        0.00     :
       58.17    :       24.04     :        0.00     :        0.00     :
       52.10    :       19.15     :        0.00     :        0.00     :
       47.76    :       15.00     :        0.00     :        0.00     :
       38.50    :       12.34     :        0.00     :        0.00     :

Sp:    11.82 mV
In:   620.00 mA              Rho:  1669.55 ohm.m              #:    22
Vp:  141.140 mV               Mg:    22.74 mV/V              Q:     0.04 mV/V
Tau:   0.000 s                Mcc:    0.00 mV/V            rms:     0.00 %

--------------------------------------------------------------------------------

Channel: 2  Date: 07/05/1999 09:47:06
Spacing (meter): XP  : 5025    li.P: 5150    D   : 25    XA  : 5275    XB  : 4800    l.AB:
5200
Rs:     2.26 kohm

      M1/5      :      M6/10      :      M11/15     :      M16/20     :
----------------:-----------------:-----------------:-----------------:
       56.93    :       24.23     :        0.00     :        0.00     :
       49.61    :       19.70     :        0.00     :        0.00     :
       44.21    :       15.55     :        0.00     :        0.00     :
       40.37    :       12.05     :        0.00     :        0.00     :
       32.20    :        9.81     :        0.00     :        0.00     :

Sp:   -92.17 mV
In:   620.00 mA              Rho:  1689.27 ohm.m              #:    22
Vp:  138.782 mV               Mg:    18.69 mV/V              Q:     0.03 mV/V
Tau:   0.000 s                Mcc:    0.00 mV/V            rms:     0.00 %
```

INSTRUMENT SPECIFICATIONS

Phoenix IP Transmitter Model IPT-1

Power Sources:	Phoenix MG-3 (2.5KVA, 60V, 3 phase, 400 Hz) motor generator
Output Voltage:	75 to 1200V in 5 steps. 75 - 150 - 300 - 600 - 1200V Voltage is continuously variable ± 20% from each nominal step value.
Output Power:	Maximum continuous output power is 2.5KW.
Maximum Current:	10 Amps
Ammeter Ranges:	50m A, 100m A, 500mA, 1A, 3A, and 10A full scale.
Meter Display:	A meter function switch selects the display of current level, regulation status, input frequency, output voltage, line voltage
Current regulation:	The change in output current is less than 0.2% for a 10% change in input voltage or electrode impedance. Regulation is achieved by feedback to the alternator of the motor generator unit.
Output waveform:	Either DC, single frequency, two frequencies simultaneously, or time domain (50% duty cycle). Frequencies of 0.078, 0.156, 0.313, 1.25, 2.5 and 5.0 Hz are standard, whereas 0.062, 0.125, 0.25, 1.0, 2.0 and 4.0 Hz are optionally available. The simultaneous transmission mode has 0.313 and 5.0 Hz as standard, whereas 0.156 and 2.5 Hz are optional.
Operating Temperature:	-40°C to +60°C
Frequency Stability:	±1% from -40°C to +60°C is standard. A precision time base is optionally available for coherent detection and phase IP measurements.
Transient Protection:	Current is turned off automatically if it exceeds 150% full scale or is less than 5% full scale.
Dimensions:	18cm x 40cm x 53cm
Weight:	4 kg

LIST OF MAPS

- **Posted/Contoured Plan Maps, Total Chargeability and Apparent Resistivity (1:2500)**

GRID	MAP DRAWING #
Val	P-235/256-PLAN-CHG-Val P-235/256-PLAN-RES-Val
Vera	P-256-PLAN-CHG-Vera P-256-PLAN-RES-Vera
Craig	P-235/256-PLAN-CHG-Craig P-235/256-PLAN-RES-Craig
TOTAL	6

- **Stacked Posted/contoured Realsection™, Total Chargeability and Apparent Resistivity (1:2500**

GRID	LINE	MAP DRAWING #
Val	96+00N	P-235/256-RSIP-CHG-RES-96+00N
	97+00N	P-235/256-RSIP-CHG-RES-97+00N
	98+00N	P-235/256-RSIP-CHG-RES-98+00N
	100+00N	P-235/256-RSIP-CHG-RES-100+00N
	100+50N	P-235/256-RSIP-CHG-RES-100+50N
	101+00N	P-235/256-RSIP-CHG-RES-101+00N
Vera	51+50E	P256-RSIP-CHG-RES-51+50E
	52+00E	P256-RSIP-CHG-RES-52+00E
Craig	3+00W	P-235/256-RSIP-CHG-RES-3+00W
	0+50E	P-235/256-RSIP-CHG-RES-0+50E
	1+00E	P-235/256-RSIP-CHG-RES-1+00E
	TOTAL	11

TOTAL PLANS=6
TOTAL REALSECTIONS=11

APPENDIX

MAPS AND SECTIONS

APPENDIX III

Diamond Drill Logs

DIAMOND DRILL RECORD

DIP TEST		
	ANGLE	
FOOTAGE	READING	CORRECTED
0.0	-50	
150.6		

HOLE # VA-99-01

PROPERTY VAL GRID

LOCATION 9800N 9570E (7126675N 536031E) PAGE # 1 of 3

Date Begun 07/07/99 Date Logged 10/07/99 Bearing 240(-50) Total Depth 150.6m

Date Finished 09/07/99 Logged By BTE Elev. Collar 1212m Core Size BTW

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
0.0	5.18				CASING - 0/13 SOIL + BOULDERS				
5.18	34.5				DOLOMITE - MED. GREY, MICROCRYSTALLINE,				
					ABUNDANT "MICROSPAR" THROUGHOUT W/ CALCITE,				
					ABUNDANT QTZ/CALCITE VEINLETS PARALLEL TO				
					BEDDING @ ~75° TCA				
					-ABUNDANT SOME BRECCIA THROUGHOUT INTERVAL				
					W/ RANDOM ANGULAR FRACTURES FILLED W/				
					QTZ/CALC.				
					26.27 - 26.55 QTZ/CALC VEIN - UPPER + LOWER				
					CONTACT @ 50° TCA - FEOX				
					28.5 - 30.18 - GROUND CORE STRONG FE OX TR				
					SPHALERITE (RED/GREY) POOR REC ~ 25%				
					34.2 - 34.6 QTZ/CALC VEIN - UPPER + LOWER				
					CONTACTS @ 50° TCA				
34.5	72.96				CALCAREOUS SHALE - MED - DARK GREY, VERY FINE				
					GRAINED - BEDDED 40 - 65° TCA				
					-UNIT IS CARBONACEOUS THROUGHOUT, LOCALLY				
					SCHISTOSE, LOCALLY SHEARED & CONVOLUTED				
					ABUNDANT QTZ/CALC VEINLETS PARALLEL TO				
					BEDDING AND AS RANDOM SOME BX				
					@ 61.1m LOW ANGLE SHEAR @ 25° TCA ABUNDANT				
					GRAPHITE				

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VA-99-01

PROPERTY _____

LOCATION _____ PAGE # 2 of 3

Date Begun _____ Date Logged _____ Bearing _____ Total Depth _____

Date Finished _____ Logged By _____ Elev. Collar _____ Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE	Au ppb	Ag ppm	Pb ppm	Zn ppm
72.96	92.2				SILTY/SHALY DOLOMITE - DARK GREY, V. FINE GRAINED, MODERATE BEDDING 70° TCA, LOCAL DEFORMED BEDDING W/ CREENULATIONS, LOCALLY STRONGLY SHEARED; LOWER CONTACT FAULTED? ABUNDANT QTZ/CALCITE VEINLETS, LOCALLY BRECCIATED W/ QTZ/CARB MATRIX. 86.7 - 92.2 LOW ANGLE SHEAR 10-15° TCA GRAPHITIC								
92.2	121.5				DOLOMITE - MEDIUM GREY, MICROCRYSTALLINE, SPARRY, ABUNDANT LARGE QTZ-CALCITE VEINS LOCAL MODERATE TO STRONGLY BRECCIATED RARE CRSE PYRITE CLOTS W/ VEINS.								
121.5	150.6				DOLOMITE (BEDDED) - MEDIUM, CRYSTALLINE, BEDDED 60-80° TCA; ABUNDANT 1-3mm RANDOM QZ/DOL/CALC VEINLETS & FRACTURE FILLING; INTERVAL IS MODERATELY TO STRONGLY BRECCIATED THROUGHOUT. TRACE SPH AS SMALL DISS. TRACE PYRITE AS FRACTURE COATINGS TRACE SLIGHTLY GREY BOTRYOIDAL HEM IN FRACT.	24901	121.5	123.0	1.5	<5	0.4	61	117
						24902	123.0	124.5	1.5	<5	0.1	23	46
						24903	124.5	126.0	1.5	<5	0.1	19	39
						24904	126.0	127.5	1.5	<5	0.2	26	21
						24905	127.5	129.0	1.5	<5	0.6	52	31
						24906	129.0	130.5	1.5	<5	1.1	343	18
						24907	130.5	132.0	1.5	<5	0.2	24	24
						24908	132.0	133.5	1.5	<5	<0.1	14	25

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VA 99-01

PROPERTY _____

LOCATION _____ PAGE # 3 of 3

Date Begun _____ Date Logged _____ Bearing _____ Total Depth _____

Date Finished _____ Logged By _____ Elev. Collar _____ Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION
150.6					END OF HOLE
					July 9, 1999 0530 hr.

SAMPLE #	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Pb	Zn
24909	133.5	135.0	1.5	<5	0.1	35	76
24910	135.0	136.5	1.5	<5	0.1	26	52
24911	136.5	138.0	1.5	<5	0.1	29	36
24912	138.0	139.5	1.5	<5	<0.1	12	22
24913	139.5	141.0	1.5	<5	0.1	16	31
24914	141.0	142.5	1.5	<5	0.1	15	22
24915	142.5	144.0	1.5	<5	0.1	20	36
24916	144.0	145.5	1.5	<5	0.1	37	29
24917	145.5	147.0	1.5	<5	0.4	217	255
24918	147.0	148.5	1.5	<5	1.3	716	594
24919	148.5	150.6	2.1	<5	0.1	20	114

DIAMOND DRILL RECORD

DIP TEST		
	ANGLE	
FOOTAGE	READING	CORRECTED
0.0	-50	

HOLE # VA99-02

PROPERTY VAL GRID

LOCATION 9835N 9472E (7126712N 562934E) PAGE # 1 OF 2

Date Begun 09/07/99 Date Logged _____ Bearing 240°(-50) Total Depth 170.4

Date Finished 11/07/99 Logged By BTE Elev. Collar 1198m Core Size BTW

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
0.0	6.1				CASING - THROUGH O/B				
6.1	76.9				DOLOMITE - MED. GREY, BEDDED 40-70° TCA locally MASSIVE, BRECCIATED THROUGHOUT, SPARRY, LOCAL INTERVALS OF INTENSE BRECCIATION; ABUNDANT THICK WHITE QTZ/DOL VEINS OR SPACE FILLING W/ BROKEN/BX CONTACTS; TRACE DISS. PY.;				
76.9	170.4				DOLOMITE - AS DESCRIBED ABOVE BUT DARKER GREY, MORE PRONOUNCED BEDDING 70° TCA. SILTY; FREQUENT THIN SECTIONS (5cm) OF BLACK MATERIAL WITH CONTORTED SEAMS OF PYRITE (UP TO) 5mm; @ 85.9, 84.8, 84.88, 87.21				

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VA-99-02

PROPERTY _____

LOCATION _____ PAGE # 2 OF 2

Date Begun _____ Date Logged _____ Bearing _____ Total Depth _____

Date Finished _____ Logged By _____ Elev. Collar _____ Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
					137.15 - 2m WHT Qz/Dol VEIN w/ BRECCIATED				
					CONTACTS				
170.4					END OF HOLE JULY 12/99				

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DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VA99-03

PROPERTY VAL 563780E

LOCATION L 1004+00N 10320E (7126915N [illegible] E) PAGE # 1 OF 2

Date Begun July 12/99 Date Logged July 14/99 Bearing 240 Total Depth 133.8

Date Finished July 14/99 Logged By BTE Elev. Collar -45° Core Size BTW

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
					CASING				
	72.5				DOLOMITE – GREY, MICROCRYSTALLINE, SPARRY, BEDDED 45°TCA (LOCALLY @ 300) OCCASIONAL 1mm Qtz/Dol VEINLETS;				
72.5	86.0				INTERBEDDED DOLOMITE (AA) AND CARB/SHALEY DOLOMITE – SHALEY UNIT IS BLACK, VERY FINE TO FINE GRAINED, BEDDED @ 45°TCA, CALCAREOUS, BEDDING IS STRONG & LOCALLY GRANULATED. OCCASSIONAL NODULES (2-3mm) PYRITE SEAMS;				
86.0	133.8				SHALE/SHALEY DOLOMITE – DARK GREY TO BLACK; FINE GRAIN SIZE, CALCAREOUS; GOOD BEDDING @ 45°TCA; FREQUENT 2-3mm PYRITE SEAMS PARALLEL TO BEDDING INTERVAL IS CARBONACEOUS/GRAPHITIC THROUGHOUT;				

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VA 99-03

PROPERTY _____

LOCATION _____ PAGE # 2 of 2

Date Begun _____ Date Logged _____ Bearing _____ Total Depth _____

Date Finished _____ Logged By _____ Elev. Collar _____ Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
					102.85 - 103.75 - Limestone / Dol? Med				
					Grey, Contorted; (Strong?) Strong Hcl				
					Reaction, Trace Py @ contacts.				
					132.4 - 133.10 - LS As Above				
133.81					End of Hole				

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DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE READING	ANGLE CORRECTED

HOLE # VA99-04

PROPERTY VAL

LOCATION 9650 N 10100 E

PAGE # 1

Date Begun July 19/99 Date Logged July 23/99 Bearing 270/-45 Total Depth 133.8

Date Finished July 21/99 Logged By BTE Elev. Collar Core Size BTW

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
0.0	4.6				CASING - O/B + BOULDERS				
4.6	63.0				DOLOMITE (LAMINATED) - MEDIUM/DARK GREY; MICROCRYSTALLINE; LAMINATED IR BEDDING 70-80° TCA; LOCALLY ARGILLACEOUS, SPARRY LOCALLY BRECCIATED (MOD. TO SEVERE) QTZ+ WHT DOLOMITE GROUNDMASS; ABUNS. 1-3mm QTZ/DOL VEINLETS.				
63.0	65.9				BRECCIATED DOLOMITE - MEDIUM GREY; MICROCRYSTALLINE; HEAVILY BRECCIATED; SPARRY ABUNDANT QTZ/DOL Bx MATRIX AND VEINS OCC BARITE BLADED CRYSTALS; OCCASIONAL PYRITE CLOTS IN VEN MATL; OCC. TR GALENA CUBES IN VEINS.				
65.9	104.7				DOLOMITE (GREY) - MEDIUM GREY; MICROCRYST. BRECCIATED; ABUNDANT WHT DOL + QTZ VEINLETS AND BRECCIA GROUNDMASS; OCC TR PYRITE DOLOMITE IS SPARRY; FREQ. LARGE OPEN VUGS WITH QTZ CRYSTALS + LARGE (2-3mm) CUBIC PYRITE				

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VA-99-04

PROPERTY

LOCATION PAGE # 2 of 3

Date Begun Date Logged Bearing Total Depth

Date Finished Logged By Elev. Collar Core Size

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE	Au ppb	Ag ppm	Pb ppm	Zn ppm
104.7	115.2				DOLOMITE - AS DESCRIBED ABOVE WITH	24947	104.0	105.0	1.0	<5	<0.1	16	70
					WEAK MINERALIZATION; LOCAL WEAK TO	24948	105.0	106.0	1.0	<5	<0.1	12	59
					MASSIVE BRECCIATION; LOCALIZED DISSEMINATED	24949	106.0	107.0	1.0	<5	<0.1	15	57
					PYRITE, GALENA, RED SPHALERITE; AND	24950	107.0	108.0	1.0	<5	<0.1	12	69
					FINE TETRAHEDRITE.	24951	108.0	109.0	1.0	<5	<0.1	15	101
						24952	109.0	110.0	1.0	<5	<0.1	14	123
115.2	121.75				BRECCIATED AND MINERALIZED DOLOMITE	24953	110.0	111.0	1.0	<5	<0.1	26	442
					-MEDIUM GREY AND WHITE, SPARRY BRECCIATED	24954	111.0	112.0	1.0	<5	<0.1	16	127
					DOLOMITE: HEAVY/THICK (>2cm) PYRITE	24955	112.0	113.0	1.0	<5	<0.1	12	71
					VEINS/MASSES WITH INCLUSIONS OF	24956	113.0	114.0	1.0	<5	<0.1	19	107
					TETRAHEDRITE AND GALENA (3-8% ea.)	24957	114.0	115.0	1.0	<5	<0.1	32	145
					ABUNDANT RED SPHALERITE AS FRACTURE	24958	115.0	116.0	1.0	<5	0.6	146	2920
					COATINGS AND VEINS: LOCAL BANDING	24959	116.0	117.0	1.0	10	5.7	925	8900
					AT 70° TCA.	24960	117.0	118.0	1.0	9	3.4	1170	7440
						24961	118.0	119.0	1.0	6	1.0	213	3760
121.75	122.5				AS ABOVE BUT W/ DECREASING MINERALIZATION.	24962	119.0	120.0	1.0	9	2.3	430	10,000
						24963	120.0	121.0	1.0	<5	0.6	139	1620
						24964	121.0	122.0	1.0	<5	0.5	196	771
						24965	122.0	123.0	1.0	<5	0.1	35	414
						24966	123.0	124.0	1.0	<5	0.3	133	1990
					WO# 05715	24967	124.0	125.0	1.0	<5	0.1	89	2810
						24968	125.0	126.0	1.0	<5	<0.1	68	126

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VA99-04

PROPERTY _____

LOCATION _____ PAGE # 3 of 3

Date Begun _____ Date Logged _____ Bearing _____ Total Depth _____

Date Finished _____ Logged By _____ Elev. Collar _____ Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE	Au ppb	Ag ppm	Pb ppm	Zn ppm
132.5	133.8				ARGILLACEOUS DOLOMITE; DARK GREY TO	24969	126.0	127.0	1.0	<5	0.3	41	474
					BLACK; BEDDED 70° TCA.	24970	127.0	128.0	1.0	<5	0.1	30	89
						24971	128.0	129.0	1.0	<5	1.1	326	3510
133.8					END OF HOLE.	24972	129.0	130.0	1.0	6	0.9	289	1675
						24973	130.0	131.0	1.0	<5	0.6	332	1199
						24974	131.0	132.0	1.0	<5	0.2	107	418
						24975	132.0	133.0	1.0				

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE READING	ANGLE CORRECTED

HOLE # VA99-05

PROPERTY VAL

LOCATION 9650 N 10100 E

PAGE # 1 OF 2

Date Begun 22/07/99 Date Logged July 27/99 Bearing 270/-60 Total Depth 181.05

Date Finished 24/07/99 Logged By BTC. Elev. Collar Core Size BTW

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
0.0	3.05				CASING - O/B & BOULDERS				
3.05	53.95				LAMINATED DOLOMITE - MEDIUM/DARK GREY, BEDDED 25-35° TCA, LOCALLY BRECCIATED, LOW LARGE DOLOMITE/QUARTZ BRECCIA INFILL WITH TRACE PYRITE CLOTS, ABUNDANT FINE QTZ/DOLOMITE MICROVEINS @ NO PREFERRED ORIENTATION				
					34.5-39.1 BRECCIATED DOLOMITE, SMALL (3mm-6mm) FRAGMENTS, HARD.				
53.95	111.3				GREY DOLOMITE - MEDIUM GREY, MICRO-CRYSTALLINE, BRECCIATED THROUGHOUT, LOCAL COARSE PYRITE CLOTS (2-5mm), QUARTZ AND WHITE DOLOMITE VEIN MATERIAL, TRACE LAMINATED PYRITE IN LOW ANGLE VEINS				
					81.3m 45cm Qtz/Dol VEIN.				

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE READING	ANGLE CORRECTED

HOLE # VA99-05

PROPERTY _____

LOCATION _____ PAGE # 2 of 2

Date Begun _____ Date Logged _____ Bearing _____ Total Depth _____

Date Finished _____ Logged By _____ Elev. Collar _____ Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
111.3	142.55				LAMINATED DOLOMITE - MEDIUM GREY, AS DESCRIBED ABOVE				
142.55	173.2				INTERCALATED ARGILLITE AND DOLOMITIC ARGILLACEOUS CLASTIC UNIT. ARGILLITE IS DARK GREY, CARBONACEOUS AND LOCALLY GRAPHITIC. CLASTIC UNIT IS DEFORMED, INTERBEDDED VERY FINE BLACK ARGILLITE AND 3mm SIZE SUB-ROUNDED DOLOMITE CLASTS. BEDDING ROLLS BETWEEN 40-80° TCA, BOTH EROSIONAL AND "SED ON-SET" CONTACTS WITH POSSIBLE UP HOLE = UA SECTION. LOCAL CROSS BEDDING, LOCAL DISSEMINATED PYRITE (UP TO 3%), LOCAL 1-2mm PYRITE SEAMS SEMI-PARALLEL TO BEDDING.				
173.2	181.05				LAMINATED DOLOMITE - MED/DARK GREY AS DESCRIBED ABOVE, ABUND FINE Qtz/Dol MICROVEINS.				
181.05					END OF HOLE.				

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VE99-01

PROPERTY VERA

LOCATION L5150E 5715N (7133198N 560235E) PAGE # 1 of 2

Date Begun July 15/99 Date Logged July 17/99 Bearing 170/-45 Total Depth 120.4

Date Finished July 17/99 Logged By BTE Elev. Collar Core Size RTW

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE	Au ppb	Ag ppm	Pb ppm	Zn ppm
0.0	2.13				CASING								
2.13	96.9				DOLOMITE - MED. GREY; MICROCRYSTALLINE; SPARRY / LOCALLY CALCAREOUS; BEDDED TO LOCALLY MASSIVE; BEDDING 80-90° TCA; LOCAL SHALEY INTERVALS; LOCAL MOD BRECCIATED W/ QTZ DOLOMITE (WHITE) FRACTURE FILLING								
					66.40 - 66.56 Qtz/Dol VEIN - Upper Contact Is BRECCIATED 75° TCA, Lower Contact Is SHARP / Rx @ 80° TCA; BARITE IN VEIN MAT'L THROUGHOUT VEIN 20% CLOTTY GALENA; TETRAHED. MASSIVE GALENA @ CONTACTS, ±15% CLOTS OF PYRITE; 3-9% RED CRYSTALLINE SPHALERITE IN FRACTURE; VUGS; SULPHIDE MN STRETCHES ±1/5cm INTO WALL Rx ABOVE; BELOW VEIN.	24920	64.5	65.5	1.0	<5	2.1	300	3.9%
						24921	65.5	66.25	0.75	<5	0.2	81	1442
						24922	66.25	67.25	1.0	<5	1.1	79	887
						24923	67.25	68.25	1.0	<5	0.4	301	301

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VE99-01

PROPERTY VAL

LOCATION

Date Begun _____ Date Logged _____ Bearing _____ Total Depth _____

Date Finished _____ Logged By _____ Elev. Collar _____ Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE	Au ppb	Ag ppm	Pb ppm	Zn ppm
96.9	113.0				DOLOMITE (BRECCIATED & WEAKLY ALTERED)	24924	97.0	98.0	1.0	<5	0.2	145	133
					MEDIUM GREY, MICROCRYSTALLINE, BRECCIATED	24925	98.0	99.0	1.0	<5	0.2	86	181
					THROUGHOUT: WEAK - MODERATE "CLAY" ALTERATION;	24926	99.0	100.0	1.0	<5	0.9	362	1276
					ABUNDANT QTZ/DOL. VEINLETS (RANDOM);	24927	100.0	101.0	1.0	<5	4.7	682	984
					97.0 - 104.5 3% - 5% DISS & CLOTTY GALENA,	24928	101.0	102.0	1.0	<5	0.1	38	293
					TRACE TETRAHEDRITE IN FRACTURES; 3% Py:	24929	102.0	103.0	1.0	<5	3.4	2840	575
					104.5 - 105.5 VEIN/GOUGE - DARK GREY	24930	103.0	104.5	1.5	<5	0.9	775	2760
		80%			"RUBBLY" ABUNDANT CLAY MATL VR to 20%	24931	104.5	105.5	1.0	7	2.4	688	1474
					FINE GALENA, TRACE TETRAHEDRITE, 3-8% Py	24932	105.5	107.0	1.5	<5	0.2	213	842
						24933	107.0	108.0	1.0	<5	1.0	710	4000
					105.5 - 113.0 DOLOMITE AS DESCRIBED	24934	108.0	109.0	1.0	<5	0.1	89	190
					ABOVE BUT DECREASING BRECCIATION	24935	109.0	110.0	1.0	<5	0.2	145	2330
					DOWN SECTION, DECREASING DISS. GALENA	24936	110.0	111.0	1.0	<5	1.6	90	1980
					DOWN SECTION	24937	111.0	112.5	1.5	<5	1.1	404	148
113.0	120.4				DOLOMITE - MEDIUM GREY; MICROCRYSTALLINE;								
					WEAKLY BEDDED 50° TCA, LOCAL LIGHT								
					BRECCIATION; QTZ/DOLOMITE 1-2mm								
					VEINLETS (RANDOM)								
120.4					END OF HOLE								

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE	
	READING	CORRECTED

HOLE # VE99-02

PROPERTY VERA

LOCATION L5400E/5629N (7133155N 560500E)

PAGE # 1 OF 2

Date Begun JULY 18/99 Date Logged JULY 19/99 Bearing 170/-45 Total Depth 98.8

Date Finished JULY 19/99 Logged By BTE Elev. Collar Core Size BTW

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE	Au ppb	Ag ppm	Pb ppm	Zn ppm
0.0	4.3				CASING - BOULDERS + O/B								
4.3	24.5				DOLOMITE - MEDIUM GREY; MICROCRYSTALLINE	24938	24.0	25.0	1.0	5	1.0	88	196
					MASSIVE TO BEDDED 50-90° TCA;	24939	25.0	26.0	1.0	<5	0.8	222	303
					OCCASSIONAL FINE (<3mm) Qtz/DOLOMITE	24940	26.0	27.0	1.0	<5	17.5	215	1178
					VEINLETS AT NO PREFERRED ORIENTATION;	24941	27.0	28.0	1.0	<5	44.0	69	2900
						24942	28.0	29.0	1.0	<5	0.8	16	1037
24.5	32.0				BRECCIATED DOLOMITE (ZOI?) - MEDIUM TO	24943	29.0	30.0	1.0	<5	1.0	381	1603
					DARK GREY; MODERATELY BRECCIATED, LOCALLY	24944	30.0	31.0	1.0	<5	0.1	111	991
					INTENSE; LOCAL FE OXIDE STAINING;	24945	31.0	32.0	1.0	<5	0.1	28	74
					ABUNDANT QTZ/DOLOMITE AS VEINS AND ?	24946	32.0	33.0	1.0	<5	<0.1	15	77
					BRECCIA GROUNDMASS; LOCAL TRACE-3% PYRITE								
					AS DISS; LOCAL TRACE-3% GALENA AS								
					CLOTS IN FRACTURES & VEIN CONTACTS;								
					<2% SPHALERITE IN FRACTURES.								
32.0	98.8				DOLOMITE - AS DESCRIBED TO 24.5m								
					BUT LOCALLY CHAOTIC BEDDING,								
					LOCAL THIN STROMATOLITIC INTERVALS.								

DIAMOND DRILL RECORD

DIP TEST		
FOOTAGE	ANGLE READING	ANGLE CORRECTED

HOLE # VE99-02

PROPERTY _____

LOCATION _____ PAGE # 2 OF 2

Date Begun _____ Date Logged _____ Bearing _____ Total Depth _____

Date Finished _____ Logged By _____ Elev. Collar _____ Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	VISUAL LOG	ROCK CODE	DESCRIPTION	SAMPLE #	FROM	TO	WIDTH OF SAMPLE
					85.2 - 86.7 QTZ/DOLOMITE C 15-20° TCA				
					WHITE; SHARP CONTACTS; RARE GALENA				
					GRAINS:				
98.8					END OF HOLE				

MULTI-ELEMENT PACKAGES

Geochem

Au + 5: Au 15g fire assay, AAS finish
Ag, Cu, Pb, Zn, Cd Aqua regia digestion, AAS
$16.00

Au + 6: Au 15g fire assay, AAS finish
Ag, Cu, Pb, Zn, As, Sb Aqua regia digestion, AAS
$17.00

Au + 9: Au 15g fire assay, AAS finish
Ag, Cu, Pb, Zn, As, Sb, Cd, Ni, Co Aqua regia, AAS
$21.00

Au + 30: Au 15g fire assay, AAS finish
30 element ICP, Aqua Regia digestion
$16.00

Pt + 32: Au, Pt, Pd 30g fire assay, AAS finish
30 element ICP, Aqua regia digestion
$26.00
(Add 11.50 for Rh)

Add $ 1.25 for 30g Au.

Whole Rock Analysis

SiO_2, Al_2O_3, Fe_2O_3, MgO, CaO, Na_2O, K_2O, TiO_2, P_2O_5, MnO, BaO, L.O.I.
$25.00

A full range of other specific analyses available upon request.

A minimum charge of $40.00 will apply for each submission of samples.

For certain analyses, submissions of fewer than 10 samples may be subject to a surcharge of $25.00.

**Prices do not include G.S.T.*

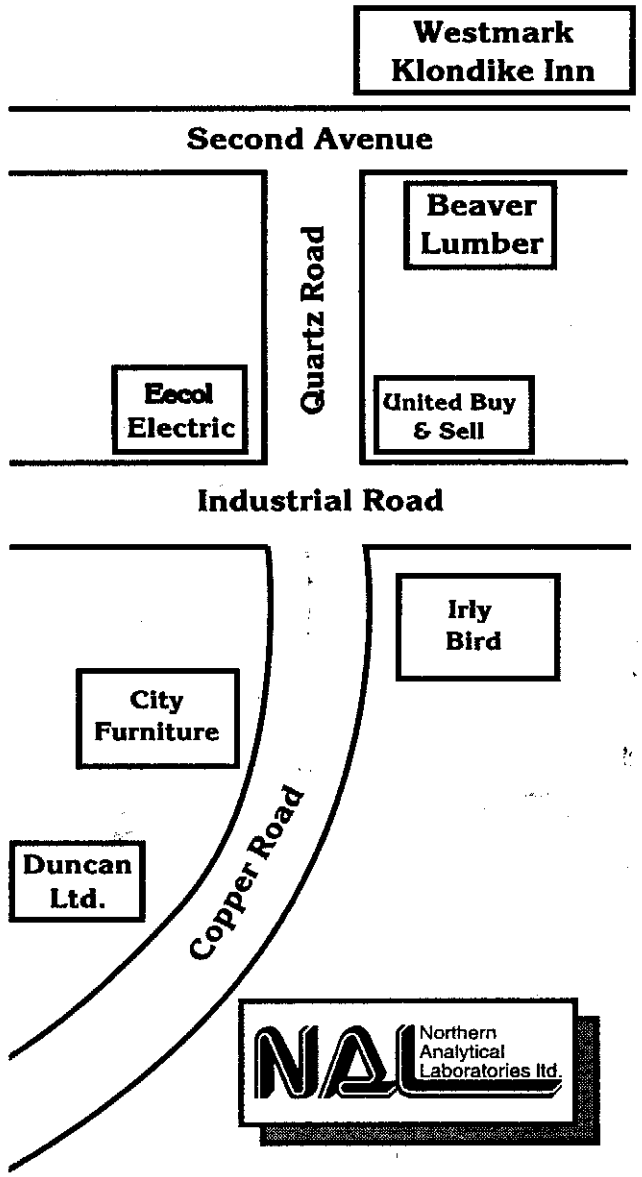
Prices are subject to change without notice.

(Except on approved credit, we require payment in advance for analyses.)

CONVERSION FACTORS

1oz/ton = ppb x 0.0000292
1ppm = 1g/mt
1 ppm = 1000 ppb
1% = 10000 ppm

HOW TO FIND US:



NAL Northern Analytical Laboratories ltd.

Specialists in Fire Assay & Atomic Absorption Analysis

Prices effective November 1, 1996

105 Copper Road
Whitehorse, Yukon
Y1A 2Z7
Phone: (403) 668-4968
Fax (403) 668-4890
E-mail: NAL@hypertech.yk.ca

SAMPLE PREPARATION

Soils and Stream Sediments

All soils and sediments screened through #80 mesh sieve unless otherwise requested. Rejects are saved.

Sample received in a paper bag or dry	$2.00
Sample received in a plastic bag	$2.50

Rock and Drill Core Samples

Crush to - 10 mesh; riffle split to 200g; pulverize to - 100 mesh	$5.00
Duplicate split	$1.00
Pulverize 200g	$2.50
Overweight charges, over 2kg, add	$1.00/kg
Drying charges (applies to all samples too wet to crush)	$2.50
Preparation only	Double price
Special preparation	Please call for a quote

Pan Concentrates

Drying; splitting and pulverizing of 200g sample	$5.00
High grade samples	$8.00

Sample Storage

Pulps will be stored for 90 days and coarse rejects for 30 days at the customer's risk. Prepared material, pulps or rejects will be discarded when the storage period expires unless claimed by owner or extended storage periods are pre-arranged with NAL in writing.

Rush Service

Double charges apply for absolute priority service. Normal sample priority is mine headings, drill core, rocks and soils on a first come first service basis. Any need for faster service on a regular basis can be arranged on larger quantities of samples.

FIRE ASSAY

Gold Trace Level Fire Assay

Au 15g sample, AAS finish (5 ppb)	$8.75
Au 30g sample, AAS finish (5ppb)	$10.00

Gold Ore Grade Fire Assay

Au (ore grade) IAT sample, AAS finish (0.001 oz/ton to 0.400 oz/ton) *Our standard gold assay procedure when expected grade is not specified. High grade samples will be reported as >0.400 oz per ton.* $11.00

Follow up high grade assays with gravimetric finish available on request at extra charge.

Au (high grade) IAT sample, gravimetric finish (0.010 oz/ton to 20 oz/ ton) *Suitable when grades regularly exceed 0.2 oz/ton.* $12.00

Extra charges will apply for assays over 20 oz per ton

Au metallics fire assay $30.00

Metallics price includes metallics sieve and two separate assay determinations.

Silver

Ag (trace level) AAS (0.1ppm)	$3.00
Ag (ore grade) AAS (1.0 g/mt)	$8.00
plus Au IAT, AAS finish	$15.50
plus Au IAT, gravimetric finish	$16.50
Ag (high grade) IAT fire assay, gravimetric finish plus Au gravimetric or AAS finish	$16.50

Platinum Group Fire Assay

Au, Pt & Pd 30g sample AAS finish	$22.00
Pt, Pd 30g sample AAS finish	$18.00
Add Rh	$11.50

Northern Analytical Laboratories will take all reasonable precautions to protect samples but will incur no liabilities for loss or damage of the samples from any cause whatsoever.

SINGLE & MULTI-ELEMENT ANALYSIS

Atomic Absorption Analysis (AAS)

	Geochem	Aqua regia digestion Assay (Ore grade)
First element	$3.00	$8.00
Additional elements	$1.50	$4.50

Detection Limits

Element		Geochem	Assay
Arsenic*	(As)	10ppm	0.01%
Antimony*	(Sb)	2 ppm	0.01%
Bismuth*	(Bi)	1 ppm	0.001%
Cadmium*	(Cd)	0.1 ppm	0.001%
Chromium	(Cr)	1 ppm	0.01%
Cobalt*	(Co)	1 ppm	0.001%
Copper	(Cu)	1 ppm	0.001%
Iron	(Fe)	10 ppm	0.01%
Lead*	(Pb)	1 ppm	0.001%
Manganese	(Mn)	1 ppm	0.01%
Molybdenum	(Mo)	1 ppm	0.01%
Nickel*	(Ni)	1 ppm	0.001%
Silver*	(Ag)	0.1 ppm	1 g/mt
Zinc	(Zn)	1 ppm	0.001%

** Background correction applied.*

Aqua regia digestion is incomplete for some mineral forms. Geochem upper limits are 10,000 ppm except for Ag (50 ppm). Accuracy of high grade assays may be limited by interference effects and solubility limits.

ICP analysis

Aqua regia digstion (30 elements)	$7.75
Multi-acid digestion (30 elements)	$12.00

Elements	Detection
Ag, Cd	0.1 ppm
Co, Cr, Cu, Mn, Mo, Ni, Sc, Sr, Zn, Zr	1 ppm
Ba, Bi, La, Pb, V	2 ppm
Hg	3 ppm
As, Sb, W	5 ppm
Tl	10 ppm
Al, Ca, Fe, K, Mg, Na, P, Ti	0.01%

Dissolution of some elements may be incomplete

APPENDIX IV

Assay Certificates

Northern Analytical Laboratories ltd.

105 Copper Road
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Ph: (867) 668-4968
Fax: (867) 668-4890
E-mail: NAL@hypertech.yk.ca

04/08/99 Certificate of Analysis

Manson Creek Resources WO# 05693

Certified by

	Sample #:	Au ppb	Ag ppm	Pb ppm	Zn ppm
r	AB 8001	<5	>50.0	6540	6690
r	AB 8002	<5	0.5	41	1059
r	AB 8003	<5	0.7	98	4070
r	AB 8004	<5	1.7	5320	1433
r	AB 8005	6	1.0	288	383
r	AB 8006	<5	37.8	1382	3950
r	AB 8007	31	48.1	3360	4100
r	AB 8008	14	3.3	45	485
r	AB 8009	<5	0.2	135	128
r	AB 8010	<5	1.0	141	866
r	AB 8011	<5	3.2	1136	3590
r	AB 8012	39	5.6	148	92
r	AB 8013	10	0.9	162	259
r	AB 8014	23	2.3	449	103
r	AB 8015	<5	1.8	8150	1635
r	AB 8016	<5	0.5	271	3710
r	AB 8017	10	6.6	>10000	>10000
r	AB 8018	6	5.6	573	>10000
r	JB 6001	<5	<0.1	25	248
r	JB 6002	5	2.3	4300	2050
r	JB 6003	35	0.2	123	207
r	JB 6004	<5	0.4	357	1925
r	JB 6005	<5	6.0	>10000	2480
r	JB 6006	6	4.0	1000	5440
r	JB 6007	50	>50.0	4220	1914
r	JB 6008	10	20.2	7310	7660
r	JB 6009	<5	0.8	573	3720
r	JB 6010	29	22.7	>10000	>10000
r	JB 6011	5	0.2	388	688
r	JB 6012	13	3.1	118	180

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Manson Creek Resources WO# 05693

Certified by

	Sample #:	Au ppb	Ag ppm	Pb ppm	Zn ppm	
r	JB 6013	8	<0.1	48	152	
r	JB 6014	24	1.9	697	6790	
r	JB 6015	<5	<0.1	87	227	
r	JB 6016	5	1.0	74	90	
r	JB 6017	<5	<0.1	17	22	
r	JB 6018	6	1.2	41	8360	
r	JB 6019	<5	0.4	277	361	
r	JB 6020	<5	<0.1	16	61	
dc	24901	<5	0.4	61	117	VA-99-01
dc	24902	<5	0.1	23	46	
dc	24903	<5	0.1	19	39	
dc	24904	<5	0.2	26	21	
dc	24905	<5	0.6	52	31	
dc	24906	<5	1.1	343	18	
dc	24907	<5	0.2	24	24	
dc	24908	<5	<0.1	14	25	
dc	24909	<5	0.1	35	76	
dc	24910	<5	0.1	26	52	
dc	24911	<5	0.1	29	36	
dc	24912	<5	<0.1	12	22	
dc	24913	<5	0.1	16	31	
dc	24914	<5	0.1	15	22	
dc	24915	<5	0.1	20	36	
dc	24916	<5	0.1	37	29	
dc	24917	<5	0.4	217	255	
dc	24918	<5	1.3	716	594	VA-99-01
dc	24919	<5	0.1	20	114	
dc	24920	<5	2.1	300	>10000	VE-99-01
dc	24921	<5	0.2	81	1442	
dc	24922	<5	1.1	79	887	

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Manson Creek Resources WO# 05693

Certified by

	Sample #	Au ppb	Ag ppm	Pb ppm	Zn ppm	
dc	24923	<5	0.4	301	301	
dc	24924	<5	0.2	145	133	
dc	24925	<5	0.2	86	181	
dc	24926	<5	0.9	362	1276	
dc	24927	<5	4.7	682	984	
dc	24928	<5	0.1	38	293	
dc	24929	<5	3.4	2840	575	
dc	24930	<5	0.9	775	2760	
dc	24931	7	2.4	688	1474	
dc	24932	<5	0.2	213	842	
dc	24933	<5	1.0	710	4000	
dc	24934	<5	0.1	89	190	
dc	24935	<5	0.2	145	2330	
dc	24936	<5	1.6	90	1980	
dc	24937	<5	1.1	404	148	VE-99-01

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06/08/99

Certificate of Analysis

of pages (not including this page): 1

Manson Creek Resources

WO# 05693a

Certified by _____
John Reeve (Senior Chemist)

Date Received: 04/08/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
p	7	pulp	No further preparation

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Ag	g/mt	Silver	A: AAS (BC)	aqua regia	1.0	10000
Pb	%	Lead	A: AAS (BC)	aqua regia	0.001	#
Zn	%	Zinc	A: AAS	aqua regia	0.001	#

AAS = atomic absorption spectrophotometry BC = background correction applied

No reporting limit. Interferences, solubility limits may limit accuracy of AAS at very high grades.

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

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06/08/99 Certificate of Analysis

Manson Creek Resources WO# 05693a

Certified by

	Sample #	Ag g/mt	Pb %	Zn %
p	AB 8001	77.4		
p	AB 8017		1.32	1.17
p	AB 8018			1.24
p	JB 6005		1.16	
p	JB 6007	187.4		
p	JB 6010		4.31	3.30
p	24920			3.90

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04/08/99 Certificate of Analysis

Manson Creek Resources WO# 05704

Certified by

	Sample #:	Au ppb	Ag ppm	Pb ppm	Zn ppm	
dc	24938	5	1.0	88	196	VE-99-02
dc	24939	<5	0.8	222	303	
dc	24940	<5	17.5	215	1178	
dc	24941	<5	44.0	69	2900	
dc	24942	<5	0.8	16	1037	
dc	24943	<5	1.0	381	1603	
dc	24944	<5	0.1	111	991	
dc	24945	<5	0.1	28	74	VE-99-02
dc	24946	<5	<0.1	15	77	VA-99-04
dc	24947	<5	<0.1	16	70	
dc	24948	<5	<0.1	12	59	
dc	24949	<5	<0.1	15	57	
dc	24950	<5	<0.1	12	69	
dc	24951	<5	<0.1	15	101	
dc	24952	<5	<0.1	14	123	(21)
dc	24953	<5	<0.1	26	442	
dc	24954	<5	<0.1	16	127	
dc	24955	<5	<0.1	12	71	
dc	24956	<5	<0.1	19	107	
dc	24957	<5	<0.1	32	145	
dc	24958	<5	0.6	146	2920	
dc	24959	10	5.7	925	8900	
dc	24960	9	3.4	1170	7440	
dc	24961	6	1.0	213	3760	
dc	24962	9	2.3	430	10000	
dc	24963	<5	0.6	139	1620	
dc	24964	<5	0.5	196	771	VA 99-04
dc	24965	<5	0.1	35	414	
dc	24966	<5	0.3	133	1990	

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10/08/99

Certificate of Analysis

of pages (not including this page): 4

Manson Creek Resources

WO# 05715

Certified by
John Reeve (Senior Chemist)

Date Received: 04/08/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	6	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
dc	82	drill core	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
s	13	soil	Screen -80 mesh
ss	15	sediment	Screen -80 mesh

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au	ppb	Gold	G: FA/AAS	15g FA / aqua regia	5	7000
Ag	ppm	Silver	G: AAS (BC)	aqua regia	0.1	50.0
Pb	ppm	Lead	G: AAS (BC)	aqua regia	1	10000
Zn	ppm	Zinc	G: AAS	aqua regia	1	10000

AAS = atomic absorption spectrophotometry
FA = fire assay
BC = background correction applied

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

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13/08/99

Certificate of Analysis

# of pages (not including this page): 1

#11.77

Manson Creek Resources

WO# 05715

Certified by _____
John Reeve (Senior Chemist)

Date Received: 10/08/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
p	1	pulp	No further preparation

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Ag	g/mt	Silver	A: AAS (BC)	aqua regia	1.0	10000

AAS = atomic absorption spectrophotometry BC = background correction applied

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

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13/08/99 Certificate of Analysis

Manson Creek Resources WO# 05715

Certified by

	Sample # :	Ag g/mt
p	AB 8021	54.5

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10/08/99

Certificate of Analysis

$ 2405.36

WO# 05715

Manson Creek Resources

Certified by

	Sample #:	Au ppb	Ag ppm	Pb ppm	Zn ppm
r	AB 8020	54	9.2	38	319
r	AB 8021	67	>50.0	29	190
r	AB 8022	23	12.7	3870	798
r	AB 8023	5	16.6	9300	196
r	JB 6021	7	0.3	35	259
r	JB 6022	8	<0.1	7	17
dc	24501	16	0.3	71	79
dc	24503	11	0.3	40	79
dc	24505	11	0.2	16	61
dc	24507	12	0.3	18	111
dc	24509	13	0.4	13	76
dc	24511	5	0.7	14	158
dc	24513	<5	0.2	12	70
dc	24515	<5	0.2	13	121
dc	24517	<5	0.3	13	84
dc	24519	5	0.1	14	109
dc	24521	<5	0.2	13	156
dc	24523	5	0.1	13	77
dc	24525	<5	0.2	17	127
dc	24527	<5	<0.1	14	68
dc	24529	<5	<0.1	13	60
dc	24531	<5	0.2	13	97
dc	24533	7	0.4	14	117
dc	24535	7	0.5	16	178
dc	24537	8	0.7	15	289
dc	24539	12	0.5	21	130
dc	24541	10	0.3	21	92
dc	24543	13	0.2	20	47
dc	24544	10	0.2	19	84
dc	24967	<5	0.1	89	2810

Northern Analytical Laboratories ltd.

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Manson Creek Resources

WO# 05715

Certified by

	Sample #	Au ppb	Ag ppm	Pb ppm	Zn ppm
dc	24968	<5	<0.1	68	126
dc	24969	<5	0.3	41	474
dc	24970	<5	0.1	30	89
dc	24971	<5	1.1	326	3510
dc	24972	6	0.9	289	1675
dc	24973	<5	0.6	332	1199
dc	24974	<5	0.2	107	418
dc	25351	<5	1.2	22	323
dc	25353	<5	1.2	18	391
dc	25355	<5	0.1	20	199
dc	25357	<5	0.1	19	123
dc	25359	<5	1.0	14	175
dc	25361	<5	0.9	14	339
dc	25363	<5	1.0	11	271
dc	25365	5	1.5	18	234
dc	25367	<5	0.7	15	203
dc	25369	<5	0.5	13	163
dc	25371	<5	0.4	19	208
dc	25373	<5	0.2	13	239
dc	25375	5	0.9	20	296
dc	25377	<5	0.6	17	195
dc	25379	48	0.5	12	177
dc	25381	<5	0.6	11	172
dc	25383	<5	0.4	15	252
dc	25385	<5	0.3	19	131
dc	25387	<5	<0.1	7	120
dc	25389	<5	<0.1	4	111
dc	25391	<5	<0.1	4	82
dc	25393	<5	<0.1	5	98
dc	25395	<5	<0.1	4	92

CRAIG-99-01

Northern Analytical Laboratories ltd.

105 Copper Road
Whitehorse, Yukon
Y1A 2Z7
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Fax: (867) 668-4890
E-mail: NAL@hypertech.yk.ca

Manson Creek Resources WO# 05715

Certified by

	Sample #	Au ppb	Ag ppm	Pb ppm	Zn ppm
dc	25397	<5	<0.1	6	74
dc	25399	<5	<0.1	4	110
dc	25401	<5	<0.1	5	107
dc	25403	<5	<0.1	5	87
dc	25405	<5	<0.1	4	94
dc	25407	<5	<0.1	6	90
dc	25409	<5	<0.1	4	70
dc	25411	20	2.9	21	519
dc	25413	22	3.0	19	622
dc	25415	24	1.0	17	167
dc	25417	26	0.5	14	228
dc	25419	65	0.4	15	78
dc	25421	38	0.2	23	113
dc	25423	62	<0.1	21	68
dc	25425	47	<0.1	22	89
dc	25427	32	0.1	23	85
dc	25429	24	<0.1	18	71
dc	25431	37	<0.1	16	70
dc	25433	28	<0.1	14	48
dc	25434	27	<0.1	15	65
dc	25435	7	<0.1	10	86
dc	25437	6	<0.1	10	32
dc	25439	11	0.1	13	59
dc	25441	13	<0.1	11	44
dc	25443	11	<0.1	13	49
dc	25445	24	0.5	16	67
dc	25447	12	<0.1	15	77
dc	25449	15	<0.1	8	60
s	ABS 001 small	824			
s	ABS 002 large	53			

CRAIG-99-01

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Manson Creek Resources WO# 05715

Certified by

	Sample #	Au ppb	Ag ppm	Pb ppm	Zn ppm
s	MMS-9001	<5			
s	MMS-9002	5			
s	MMS-9003	5			
s	MMS-9004	<5			
s	MMS-9005	7			
s	MMS-9006	7			
s	MMS-9007	<5			
s	MMS-9008	<5			
s	MMS-9009	<5			
s	MMS-9010	<5			
s	MMS-9011	10			
ss	JBS 01	5			
ss	JBS 02	<5			
ss	JBS 03	<5			
ss	JBS 04	<5			
ss	JBS 05	5			
ss	JBS 06	<5			
ss	JBS 07	<5			
ss	JBS 08	<5			
ss	JBS 09	<5			
ss	JBS 10	<5			
ss	JBS 11	<5			
ss	JBS 12	<5			
ss	JBS 13	<5			
ss	JBS 14	<5			
ss	JBS 15	<5			

Soil Grid.

INTERNATIONAL PLASMA LABORATORY LTD.

2036 Columbia Street
Vancouver, B.C.
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CERTIFICATE OF ANALYSIS
iPL 99H0708

Northern Analytical Laboratories — **28 Samples** — Out: Aug 11, 1999 — In: Aug 10, 1999 — [070817:38:52:99081199]

Project : W.O.#05715
Shipper : Norm Smith
Shipment: PO#: 176702
Analysis:
ICP(AqR)30

Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP 12M/Dis	REJECT 00M/Dis
B311	28	Pulp	Pulp received as it is, no sample prep.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Document Distribution

1 Northern Analytical Laboratories
105 Copper Road
Whitehorse
YT Y1A 2Z7
Canada
Att: Norm Smith

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DL	3D	EM	BT	BL
0	0	0	0	0

Ph:867/668-4968
Fx:867/668-4890
Em:NAL@hypertech.yk.ca

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molydenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 1=Copy 1=Invoice 0=3½ Disk
DL=Download 3D=3½ Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901

BC Certified Assayer: David Chiu

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Fax (604) 879-7898

CERTIFICA[illegible] OF ANALYSIS
iPL 99H0708

Client : Northern Analytical Laboratories
Project: W.O.#05715

28 Samples
28=Pulp

[070817:38:52:99081199]

Out: Aug 11, 1999
In : Aug 10, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
ABS001 SMALL	#	0.2	193	80	511	50	<	<	1	<	<	0.3	10	31	113	<	22	38	605	16	11	1	3	0.02	1.49	0.22	2.70	0.54	0.06	0.01	0.09
ABS002 LARGE	P	9.0	4.2%	450	4414	123	5	<	<	<	<	15.1	64	99	227	<	10	35	1.9%	40	13	5	10	0.01	0.80	0.66	13%	0.18	0.06	0.01	0.15
JBS- 1	P	0.3	241	66	164	32	<	<	1	<	<	<	10	13	122	<	12	20	797	3	27	3	2	<	0.62	4.86	1.98	2.41	0.13	0.02	0.07
JBS- 2	P	<	118	52	146	16	5	<	3	<	<	<	10	18	87	<	7	12	614	2	62	2	2	<	0.28	11%	1.96	5.37	0.06	0.02	0.06
JBS- 3	P	<	81	91	207	37	8	<	4	<	<	<	13	21	74	6	8	13	809	2	43	2	2	<	0.36	9.39	2.59	4.39	0.08	0.02	0.05
JBS- 4	P	<	51	77	139	17	<	<	2	<	<	<	6	14	65	10	9	13	496	<	57	2	1	<	0.32	12%	2.08	5.63	0.09	0.02	0.05
JBS- 5	P	0.3	45	71	244	28	<	<	2	<	<	0.4	11	16	77	<	7	13	626	3	36	2	2	<	0.37	8.01	2.58	3.69	0.07	0.02	0.05
JBS- 6	P	0.2	34	74	182	26	<	<	2	<	<	<	14	17	135	<	8	16	1236	4	26	2	3	<	0.47	4.92	2.97	2.26	0.07	0.01	0.06
JBS- 7	P	0.2	34	62	172	20	<	<	2	<	<	<	13	19	152	<	10	21	668	5	22	3	3	<	0.68	2.26	3.03	0.98	0.07	0.01	0.06
JBS- 8	P	0.2	37	54	209	18	<	<	3	<	<	<	16	25	128	<	15	30	578	8	20	3	4	0.01	1.01	2.78	3.29	1.44	0.06	0.01	0.06
JBS- 9	P	0.1	33	58	47	20	<	<	3	<	<	<	12	12	178	<	6	17	600	3	19	1	2	<	0.65	0.36	2.71	0.19	0.10	0.01	0.05
JBS-10	P	0.1	17	37	109	30	<	<	3	<	<	<	9	14	107	<	16	51	387	9	7	1	1	0.02	1.14	0.11	3.08	0.18	0.04	0.01	0.03
JBS-11	P	0.2	30	27	179	8	<	<	2	<	<	<	21	22	266	<	8	19	2835	3	32	3	2	<	0.59	1.20	4.67	0.35	0.06	0.01	0.07
JBS-12	P	0.2	28	48	200	25	<	<	2	<	<	<	16	25	265	<	13	26	2142	5	31	2	3	<	0.89	3.16	3.92	1.36	0.08	0.01	0.07
JBS-13	P	0.1	29	40	125	18	<	<	2	<	<	<	11	28	240	<	14	29	864	7	51	2	3	0.02	0.82	5.54	2.66	2.13	0.06	0.02	0.07
JBS-14	P	<	30	40	117	22	<	<	2	<	<	<	13	25	224	<	15	29	898	8	48	3	3	0.02	0.80	5.18	2.68	1.91	0.06	0.02	0.07
JBS-15	P	<	29	34	125	20	<	<	1	<	<	<	12	22	233	7	14	29	853	8	45	2	3	0.02	0.81	4.62	2.60	1.78	0.06	0.02	0.07
MMS-9001	P	0.5	85	118	368	47	<	<	4	<	<	<	21	49	121	<	19	38	1581	13	37	4	5	0.01	1.55	5.14	4.07	2.08	0.10	0.01	0.06
MMS-9002	P	0.9	95	244	741	72	<	<	4	<	<	<	29	69	59	<	34	59	1467	10	8	4	6	0.01	1.58	0.30	5.40	0.78	0.06	0.01	0.07
MMS-9003	P	0.6	61	99	402	61	<	<	2	<	<	<	19	44	109	5	22	40	1067	15	14	4	4	0.01	1.54	0.87	4.31	0.68	0.09	0.01	0.08
MMS-9004	P	0.1	29	65	193	45	<	<	3	<	<	<	11	24	76	<	25	69	728	13	7	1	2	0.02	1.36	0.12	3.91	0.35	0.06	0.01	0.04
MMS-9005	P	0.3	74	91	303	112	<	<	4	<	<	<	22	50	171	<	31	65	1149	18	7	3	5	0.01	2.34	0.16	4.88	0.74	0.06	0.01	0.03
MMS-9006	P	0.5	191	54	289	62	9	<	10	<	<	<	23	64	67	<	18	44	994	13	11	3	3	0.01	1.23	0.59	4.37	0.48	0.06	0.01	0.11
MMS-9007	P	<	49	42	142	63	<	<	2	<	<	<	10	25	83	<	26	67	475	14	4	2	2	0.01	1.94	0.03	5.40	0.31	0.04	0.01	0.04
MMS-9008	P	0.3	71	55	152	78	<	<	2	<	<	<	17	38	176	<	30	61	759	10	6	2	3	0.01	2.51	0.06	4.47	0.59	0.07	0.01	0.05
MMS-9009	P	2.3	132	1471	823	94	<	<	3	<	<	<	27	65	185	8	61	114	1558	18	10	3	8	0.01	3.49	0.32	6.35	1.17	0.07	0.01	0.12
MMS-9010	P	0.1	24	68	116	68	<	<	2	<	<	<	10	21	165	<	25	65	382	16	6	2	3	0.02	1.99	0.08	3.15	0.38	0.04	0.01	0.02
MMS-9011	P	0.3	135	566	955	83	<	<	2	<	<	<	25	52	107	<	44	81	1126	11	9	2	5	0.03	2.22	0.36	4.08	1.08	0.05	0.01	0.05
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

Rusty Soil Grid 204, 205, 207, 209.

APPENDIX V

Statement of Costs and Expenditures

Cost Allocation for VERA 40 CLAIM

MCK Personnel Salaries	No. of Days		Explanation
A. Bordeleau	14	$3,500.00	Overseeing IP, drill Program-$250.00 per day
M. Miller	8	$1,440.00	IP Crew helper, Drill Site building-$180.00 per day
J. Bailey	8	$1,440.00	IP Crew helper, Drill Site building-8 days
B. Evans	7	$2,800.00	Supervision, Logged Core-7 days
Camp Costs	Cost		
M. Hutton (cook)	11,345.00		
Groceries	15,177.00		
Sat Phone	4,004.00		
Expediting	6,332.00		
Field Consumables	4,385.00		
Total Camp Costs	41,243.00		
Cost per Man Day	**70.50**		
Number of Man Days			
IP Crew	12		3 IP Crew for 4 days July 2 - July 5, 1999
MCK Personnell	37		Mac 8 days,Josh 8 days,Anne 8 days Bruce 4 days
Drillers	20		4 man crew for 5 days
Line Cutters	18		Pro-rated as per IP and Drilling
Pilot	10.8		Pro-rated as per IP and Drilling
Engineer	10.8		Pro-rated as per IP and Drilling
Total	108.6	$7,656.39	
Linecutting			
Courier de Bois	$3,955.00		
Helicopter Time	$1,677.00		$645.00 per hour
Jet B Fuel	$222.69		Total cost/cost per hour times $85.65
Sub-Total	$5,854.69	$5,854.69	

Cost Allocation for VERA 40 CLAIM

Quantec IP Survey

Survey	$8,566.30		
Helicopter time	$4,042.00		$645.00 per hour
Jet B Fuel	$536.74		Total cost/cost per hour times $85.65
Sub-total	$13,145.04	$13,145.04	

Drilling

VE-99-01	$9,694.21		Depth-120.5 metres July 14 - July 19, 1999
VE-99-02	$7,360.38		Depth-98.82 metres
Helicopter time	$16,253.50		25.2 hours @ $645.00 per hour
Jet B Fuel	$2,158.30		Total cost/cost per hour times $85.65
Sub-total	$35,466.39	$35,466.39	

Geochemical Assays

Drill core samples			
VE-99-01	18 dc	$373.50	$20.75 per sample WO#05693
VE-99-02	6 dc		$19.75 per sample WO#05704

Fixed Wing Support

Total for project $52,362.00	$10,472.40	$10,472.40	Equal to 20% of total fixed wing prorated on average of drilling and IP

Grand total Vera Claims $82,148.41

VAL Claims 26,27,28,29,30 and 45
Total Cost Allocation

MCK Personnel Salaries	**No of Days**		**Explanation**
B. Evans	10	**$4,000.00**	Supervision, IP Interpretation, Core Logging $400.00/day
A. Bordeleau	18	**$4,500.00**	Overseeing IP and drill programs - $250.00/day
M. Miller	18	**$3,240.00**	IP Crew helper, drill site builder - $180.00/day
J. Bailey	18	**$3,240.00**	IP Crew helper, drill site builder - $180.00/day
No. of total Man Days			
IP Crew	33		3 IP Crew for 11 days June 21-July 1, 1999
MCK Personnell	64		See above
Drillers	72		4 man crew for 18 days
Line Cutters	54		Pro-rated as per IP and Drilling
Pilot	32.4		Pro-rated as per IP and Drilling
Engineer	32.4		Pro-rated as per IP and Drilling
Sub-total	287.8	**$20,290.15**	
Camp Costs			
M. Hutton (cook)	11345		
Groceries	15177		
Sat Phone	4004		
Expediting	6332		
Field Consumables	4385		
Rate per Day	**$70.50**		
Line Cutting			
Courier de Bois	13412.50		20.35 km @ $659.09/km
Helicopter Time	6902.00		10.7 hours at $645.00/hour
Jet B Fuel	916.52		Cost of fuel per hour is $85.65
Sub-Total	21231.02	**$21,231.02**	

November 22, 1999

VAL Claims 26,27,28,29,30 and 45
Total Cost Allocation

Quantec IP Survey

Survey	23427.00		27.43 km @ $854.00 per km
Helicopter time	11190.00		Cost of flying per hour is $645.00
Jet B Fuel	1485.93		Cost of fuel per hour is $85.65
Sub-total	36102.93	**$36,102.93**	

Drilling

VA-99-01 VAL 28	12700.00		Depth 150.7 metres, July 7-9,1999
VA-99-02 VAL 28	12372.00		Depth 170.5 metres, July 9-11,1999
VA-99-03 VAL 27	9667.00		Depth 133.9 metres, July 12-14, 1999
VA-99-04 VAL 29	10010.00		Depth 131.1 metres, July 19-21, 1999
VA-99-05 VAL 29	11673.00		Depth 181.1 metres, July 22-24, 1999
Helicopter Time	36864.00		57.15 hrs @ $645.00 per hour
Jet B fuel	4895.20		Cost of fuel per hour is $85.65
Sub-total	98181.20	**$98,181.20**	

Geochemical Assays

Drill core samples			
VA-99-01 VAL 28	19	**$394.25**	WO#05693 Northern Analytical Lab
VA-99-02 VAL 28	0	**$0.00**	No samples taken.
VA-99-03 VAL 27	0	**$0.00**	No samples taken.
VA-99-04 VAL 29	29	**$601.75**	WO#05704 Northern Analytical Lab
VA-99-05 VAL 29	0	**$0.00**	No samples taken.

Fixed Wing Support

Total for project			
$52,362.00	$31,417.20	**$31,417.20**	

GRAND TOTAL **$223,198.49**

November 22, 1999

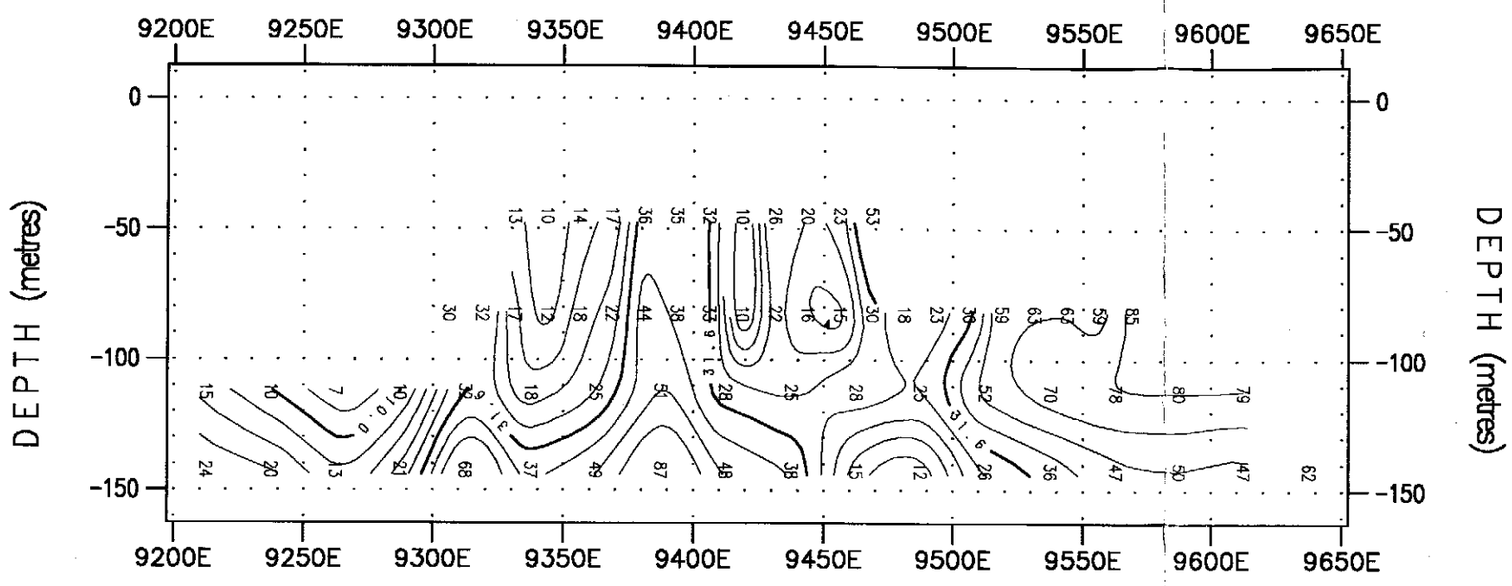
VAL 26,27,28,29,30 and 45 Cost Allocation

CLAIM NAME	Salaries	Camp Costs	Line Cutting	Helicopter	I.P. Survey	Helicopter	Drilling	Helicopter	Samples	Fixed Wing	TOTAL
VAL 26	1620	2277.15	2235.41	1303.09	3904.23	2112.65	0	0	0	5236.2	18688.73
VAL 27	2630	3574.35	2235.41	1303.09	3904.23	2112.65	9667	8351.84	0	5236.2	39014.77
VAL 28	3745	4943	2235.41	1303.09	3904.23	2112.65	25072	16703.68	394.25	5236.2	65649.51
VAL 29	3745	4943	2235.41	1303.09	3904.23	2112.65	21683	16703.68	601.75	5236.2	62468.01
VAL 30	1620	2277.15	2235.41	1303.09	3904.23	2112.65	0	0	0	5236.2	18688.73
VAL 45	1620	2277.15	2235.41	1303.09	3904.23	2112.65	0	0	0	5236.2	18688.73
	14980	20291.8	13412.46	7818.54	23425.38	12675.9	56422	41759.2	996	31417.2	223198.5

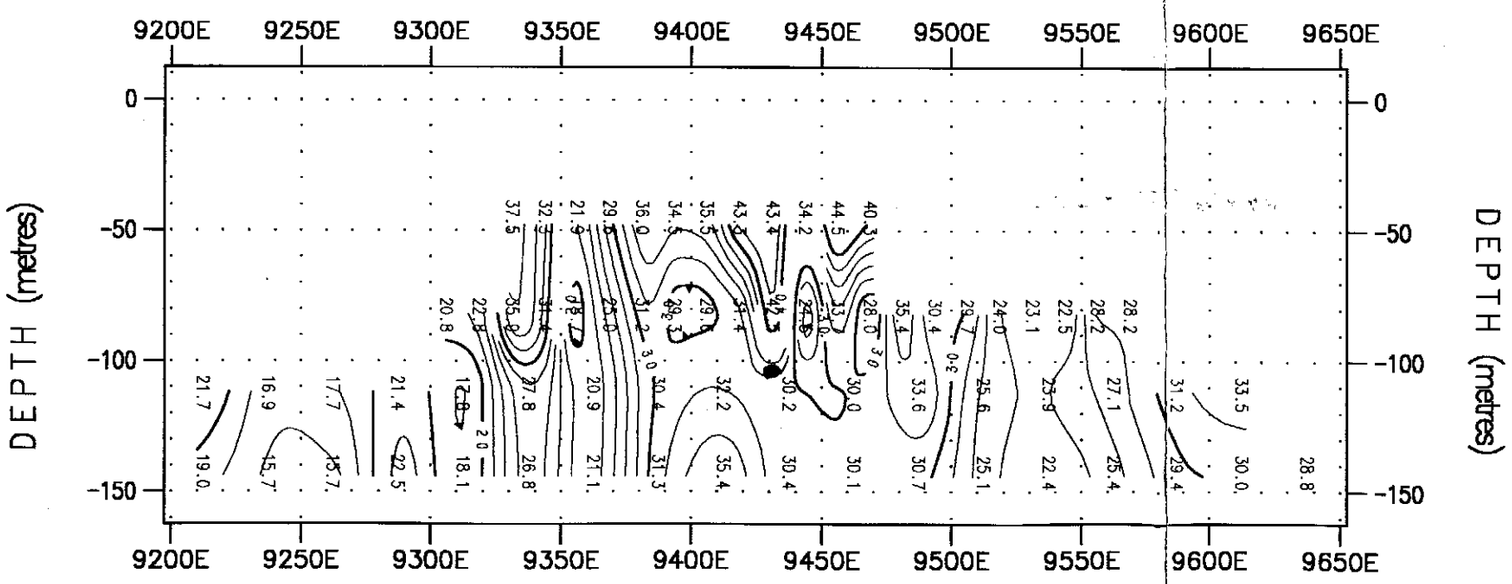
Cost Allocation
Rusty 204,205,207,209,221 Claims
Group NE Ridge

NE Ridge Group		Rusty 204,205,207,209,221		
M. Miller	2	360	2 days @ $180.00/day	Soil Sampling
A. Bordeleau	1	250	1 day @ $250.00/day	Prospecting
Helicopter	1419	1419	2.2 hours	
Jet-B Fuel	188.43	188.43		
Soil Analysis				
ICP	11	88	11 samples @ $8.00/ sample	
Au analysis	11	198	11 samples @ $18.00/sample	
Camp Costs	3	211.5	3 days @$70.5 / day	
TOTAL		$2,714.93		

APPARENT RESISTIVITY (ohm-m) - L96+00N



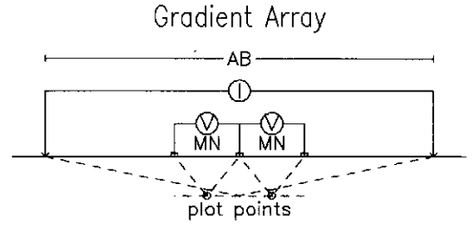
TOTAL CHARGEABILITY (mV/V)



Realsection Generated by CWilliston (08/13/99)

LINE 96+00N

Gradient Array



Scale 1:2500

25 0 25 50 75 100 125 150

(meters)

MANSON CREEK RESOURCES LTD.

VAL PROPERTY (Block B)

Rackla Camp, Yukon

TIME DOMAIN IP SURVEY
REALSECTION L96+00N
(Multiple Gradient Arrays)

Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	1.2 to 3.5 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	12.5 to 25 metres
Contour Intervals:	RES = 10 levels/log decade CHG = 2, 10 mV/V
Colour Scale:	Equal Area Zoning
Survey Date:	P235=08/98; P256=06-07/99
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

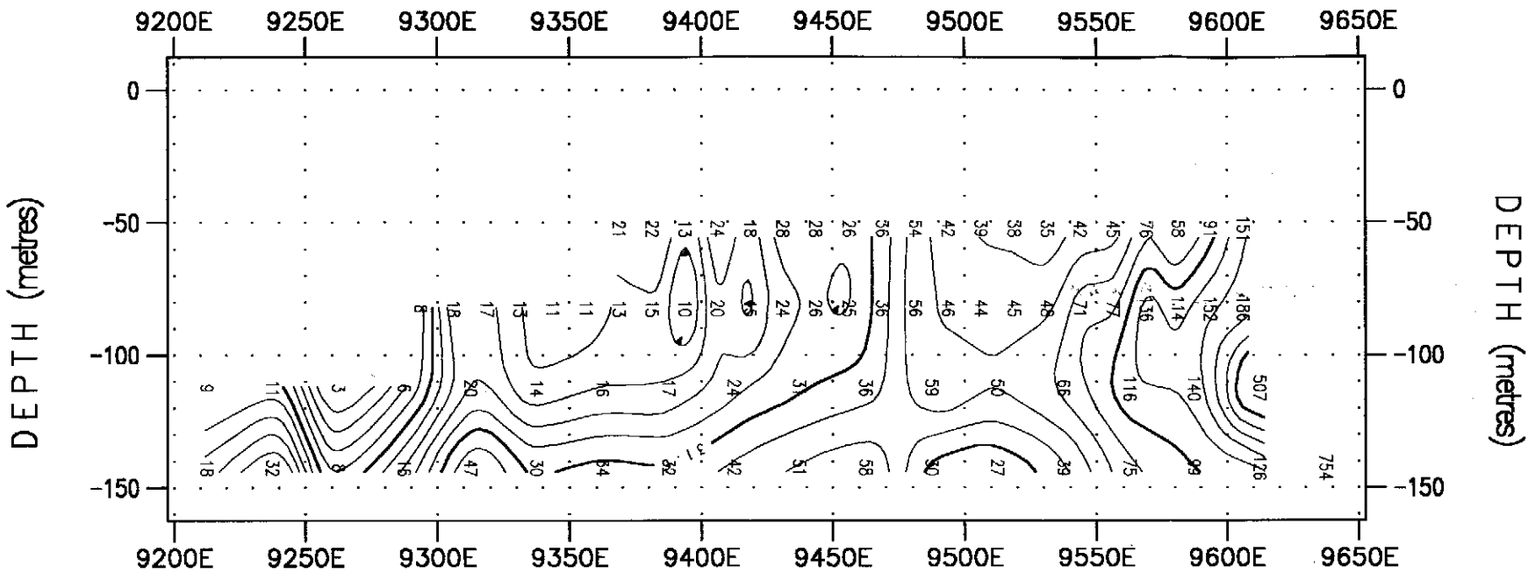
Surveyed & Processed by:

QUANTEC IP INC

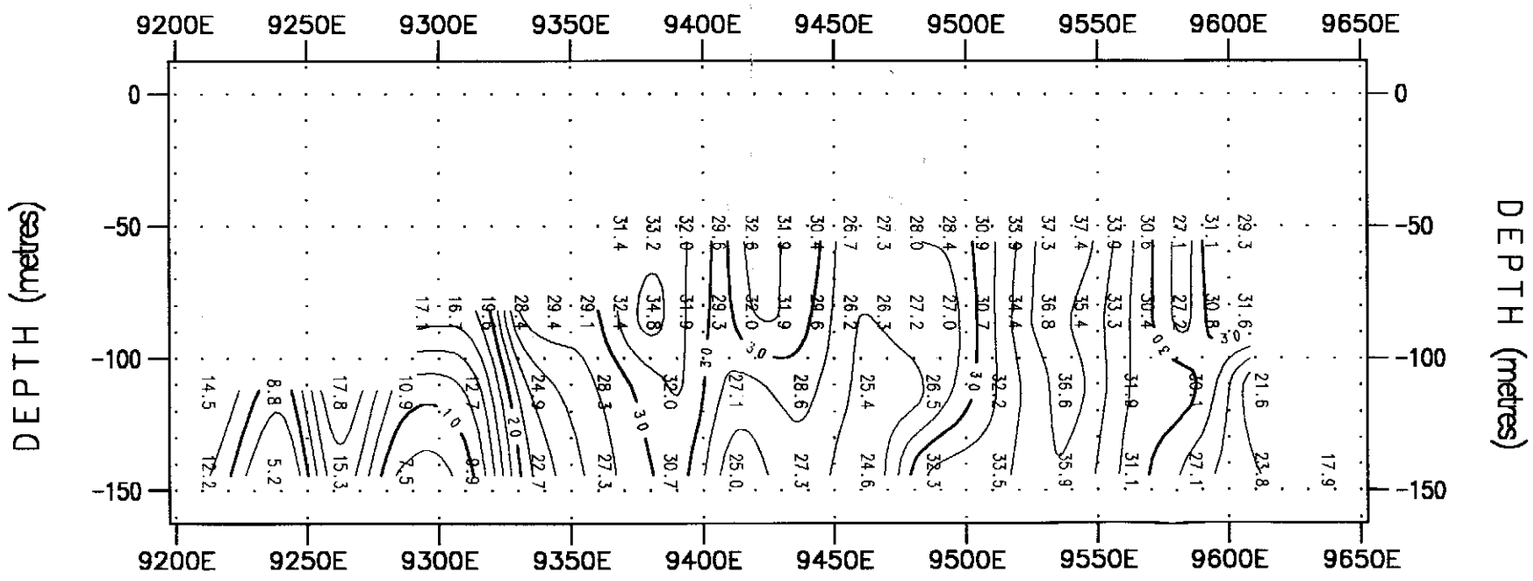
DWG. #: P-235/256-RSIP-CHG-RES-96+00N

094 073

APPARENT RESISTIVITY (ohm-m) - L97+00N



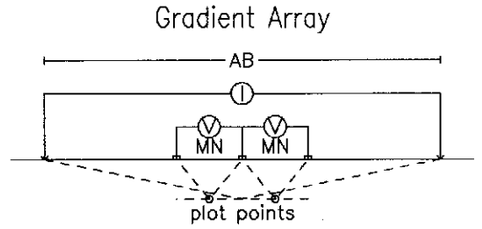
TOTAL CHARGEABILITY (mV/V)



Realsection Generated by CWilliston (08/13/99)

LINE 97+00N

Gradient Array



Scale 1:2500

25 0 25 50 75 100 125 150

(meters)

MANSON CREEK RESOURCES LTD.

VAL PROPERTY (Block B)

Rackla Camp, Yukon

TIME DOMAIN IP SURVEY

REALSECTION L97+00N

(Multiple Gradient Arrays)

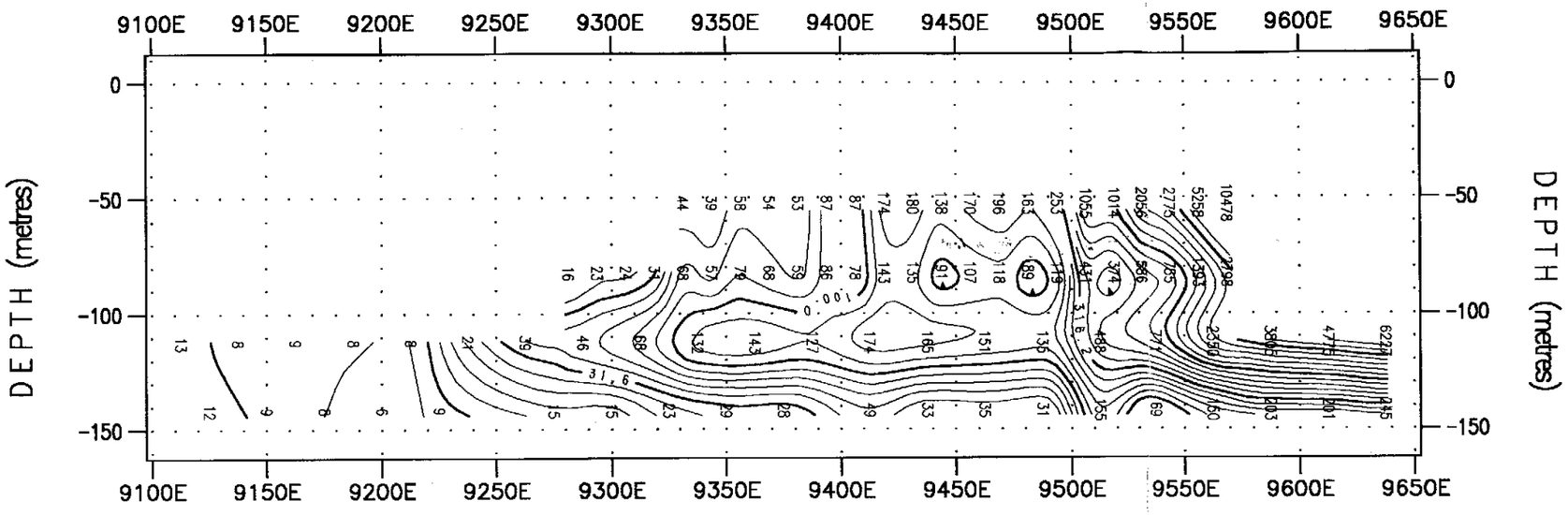
Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	1.2 to 3.5 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	12.5 to 25 metres
Contour Intervals:	RES = 10 levels/log decade CHG = 2, 10 mV/V
Colour Scale:	Equal Area Zoning
Survey Date:	P235=08/98; P256=06-07/99
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

Surveyed & Processed by:

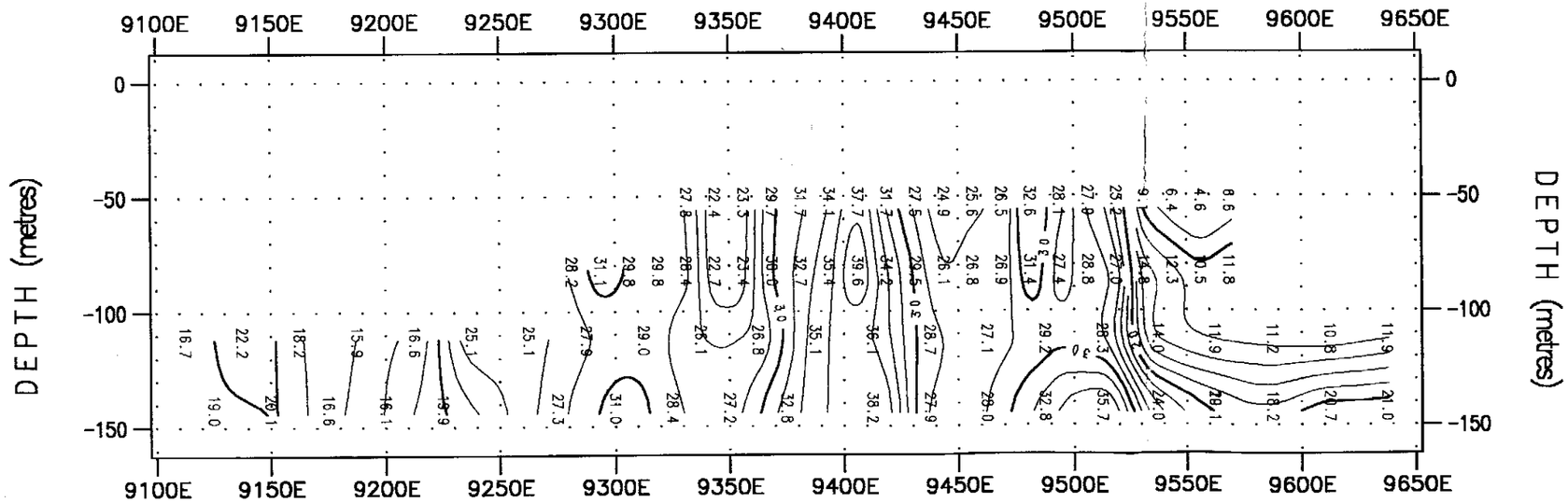
QUANTEC IP INC

DWG. #: P-235/256-RSIP-CHG-RES-97+00N

APPARENT RESISTIVITY (ohm-m) - L98+00N



TOTAL CHARGEABILITY (mV/V)

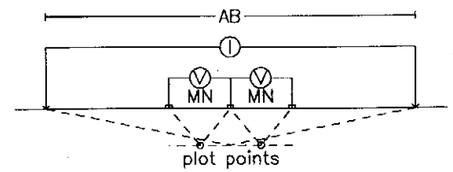


Realsection Generated by CWilliston (08/13/99)

094 073

LINE 98+00N

Gradient Array



Scale 1:2500

25 0 25 50 75 100 125 150

(meters)

MANSON CREEK RESOURCES LTD.

VAL PROPERTY (Block B)

Rackla Camp, Yukon

TIME DOMAIN IP SURVEY

REALSECTION L98+00N

(Multiple Gradient Arrays)

Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	1.2 to 3.5 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	12.5 to 25 metres
Contour Intervals:	RES = 10 levels/log decade CHG = 2, 10 mV/V
Colour Scale:	Equal Area Zoning
Survey Date:	P235=08/98; P256=06-07/99
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

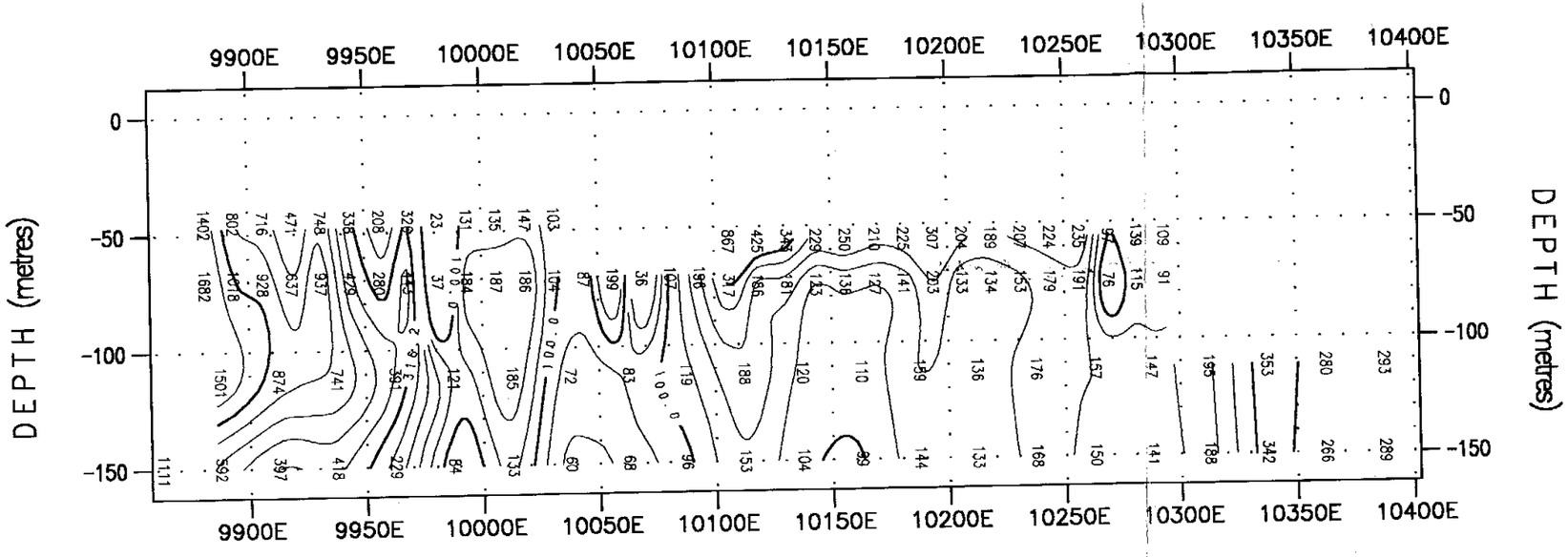
Surveyed & Processed by:

QUANTEC IP INC

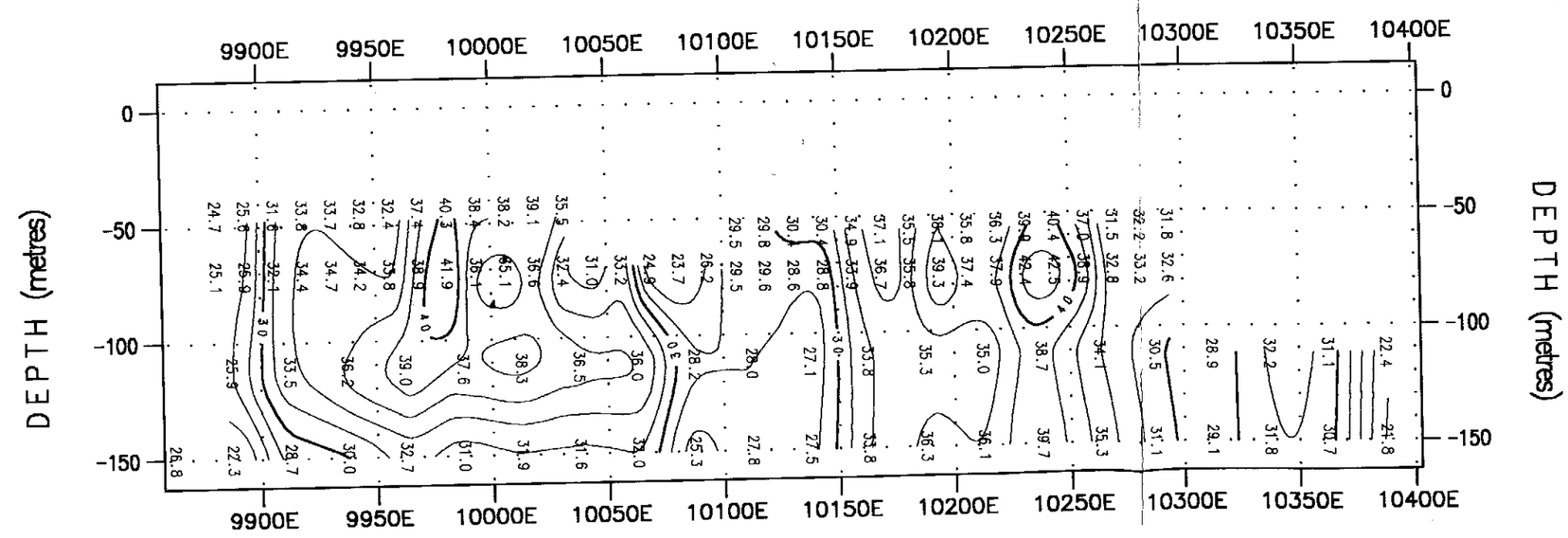
DWG. #: P-235/256-RSIP-CHG-RES-98+00N

094073

APPARENT RESISTIVITY (ohm-m) – L100+00N

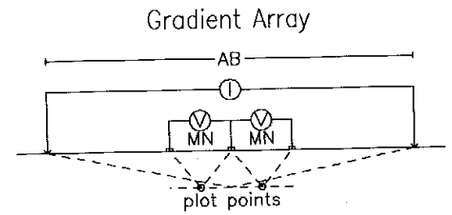


TOTAL CHARGEABILITY (mV/V)



LINE 100+00N

Gradient Array



Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

MANSON CREEK RESOURCES LTD.

VAL PROPERTY (Block C)
Rackla Camp, Yukon

TIME DOMAIN IP SURVEY
REALSECTION L100+00N
(Multiple Gradient Arrays)

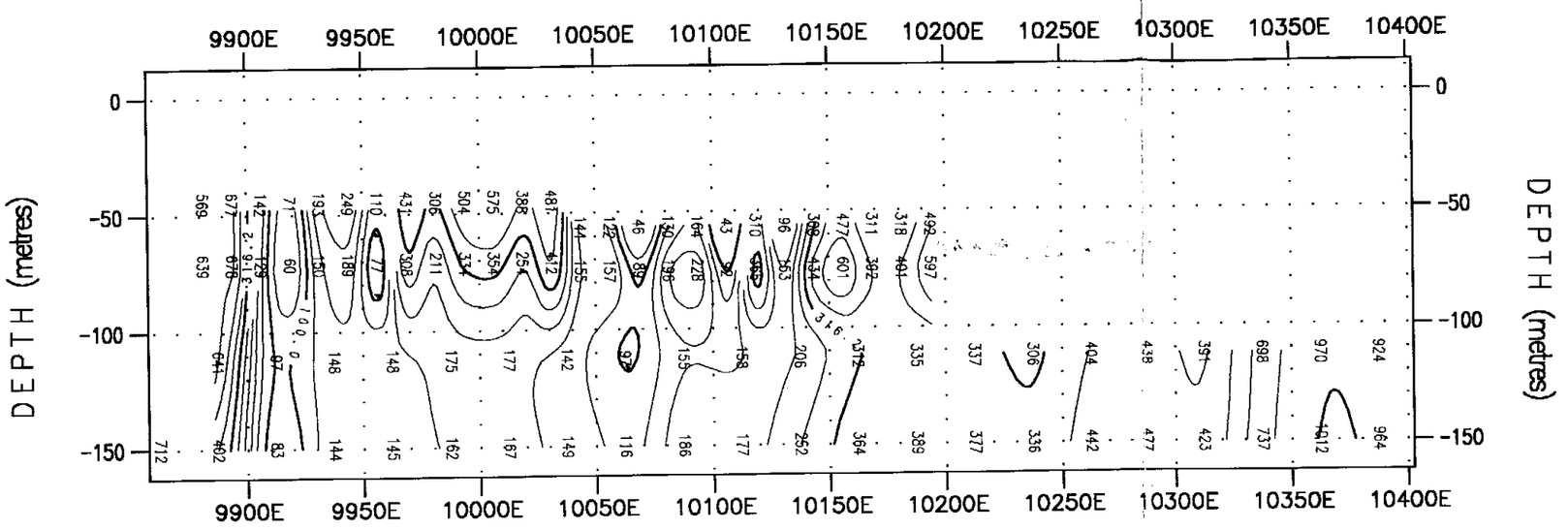
Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	1.4 to 2.0 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	12.5 to 25 metres
Contour Intervals:	RES = 10 levels/log decade CHG = 2, 10 mV/V
Colour Scale:	Equal Area Zoning
Survey Date:	P235=08/98; P256=06-07/99
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

Surveyed & Processed by:
QUANTEC IP INC
DWG. #: P-235/256-RSIP-CHG-RES-100+00N

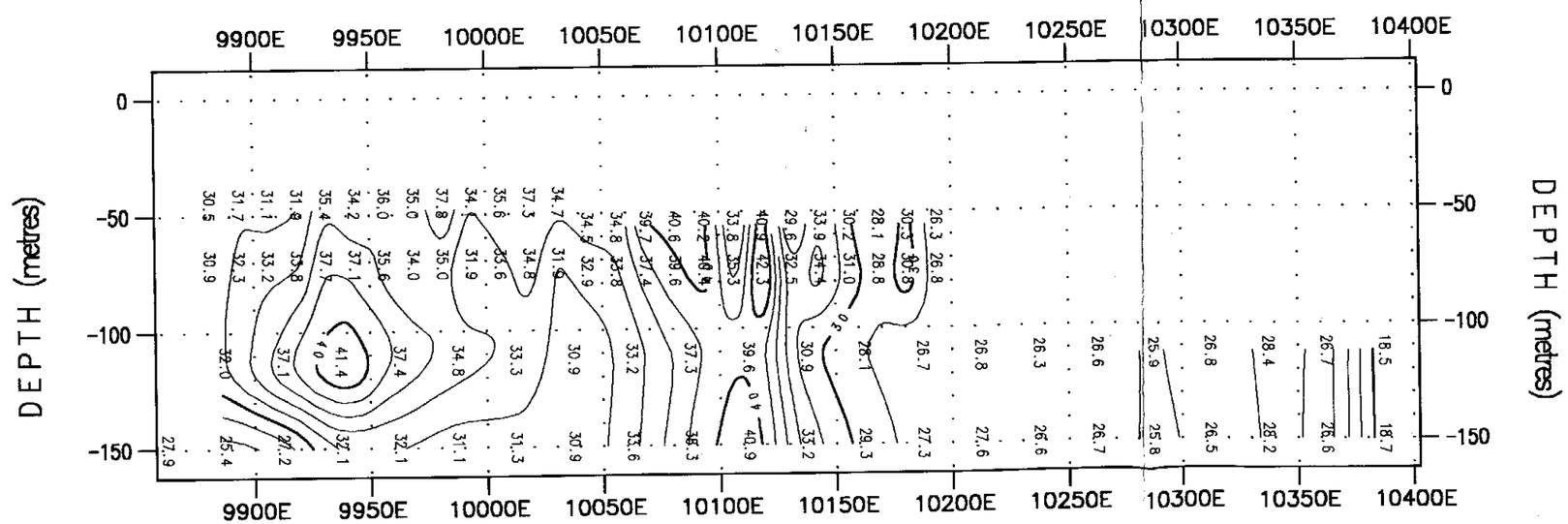
Realsection Generated by CWilliston (08/13/99)

094073

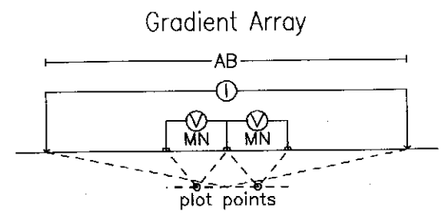
APPARENT RESISTIVITY (ohm-m) - L101+00N



TOTAL CHARGEABILITY (mV/V)



LINE 101+00N



Scale 1:2500

25 0 25 50 75 100 125 150

(meters)

MANSON CREEK RESOURCES LTD.

VAL PROPERTY (Block C)

Rackla Camp, Yukon

TIME DOMAIN IP SURVEY

REALSECTION L101+00N

(Multiple Gradient Arrays)

Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	1.4 to 2.0 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	12.5 to 25 metres
Contour Intervals:	RES = 10 levels/log decade CHG = 2, 10 mV/V
Colour Scale:	Equal Area Zoning
Survey Date:	P235=08/98; P256=06-07/99
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

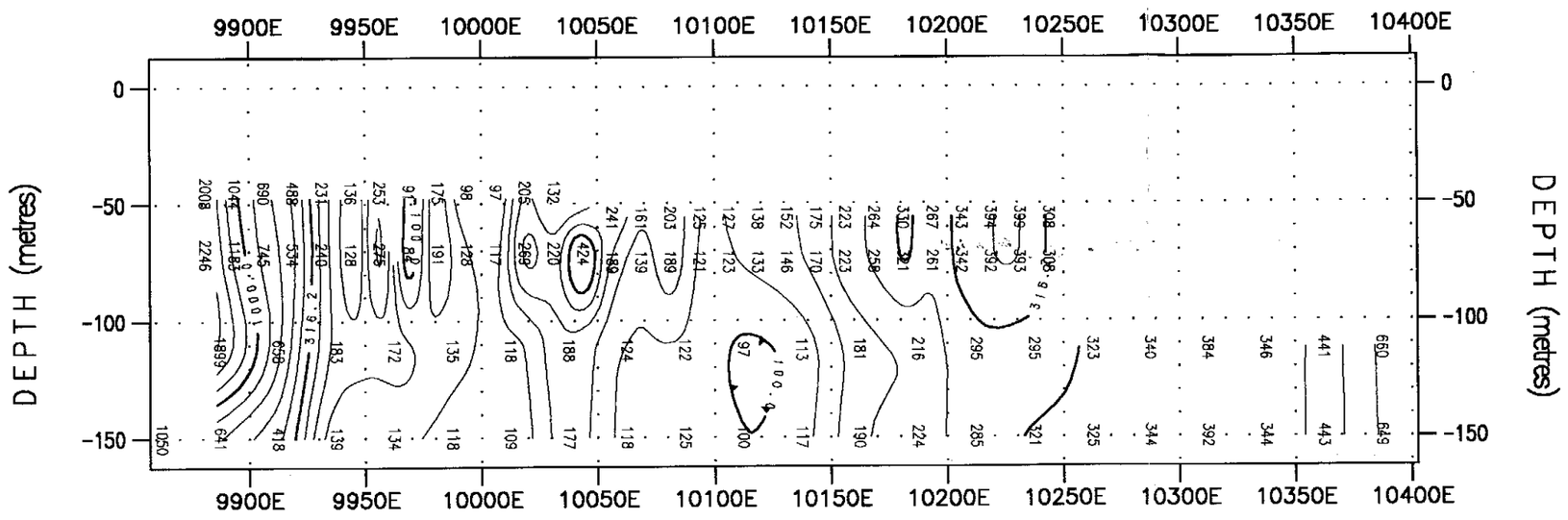
Surveyed & Processed by:

QUANTEC IP INC

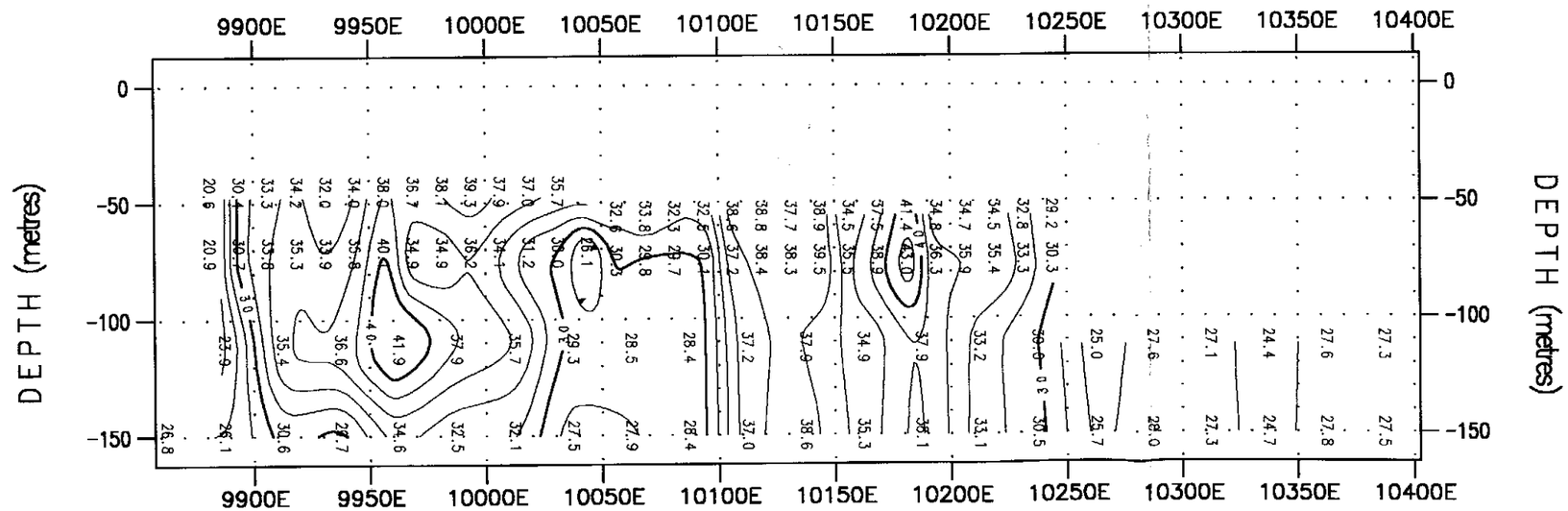
DWG. #: P-235/256-RSIP-CHG-RES-101+00N

Realsection Generated by CWilliston (08/13/99)

APPARENT RESISTIVITY (ohm-m) - L100+50N



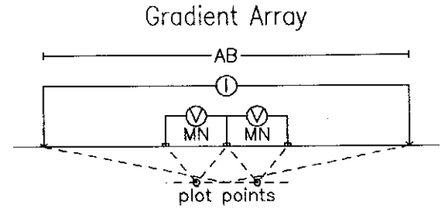
TOTAL CHARGEABILITY (mV/V)



Realsection Generated by CWilliston (08/13/99)

LINE 100+50N

Gradient Array



Scale 1:2500

25 0 25 50 75 100 125 150

(meters)

MANSON CREEK RESOURCES LTD.

VAL PROPERTY (Block C)

Rackla Camp, Yukon

TIME DOMAIN IP SURVEY

REALSECTION L100+50N

(Multiple Gradient Arrays)

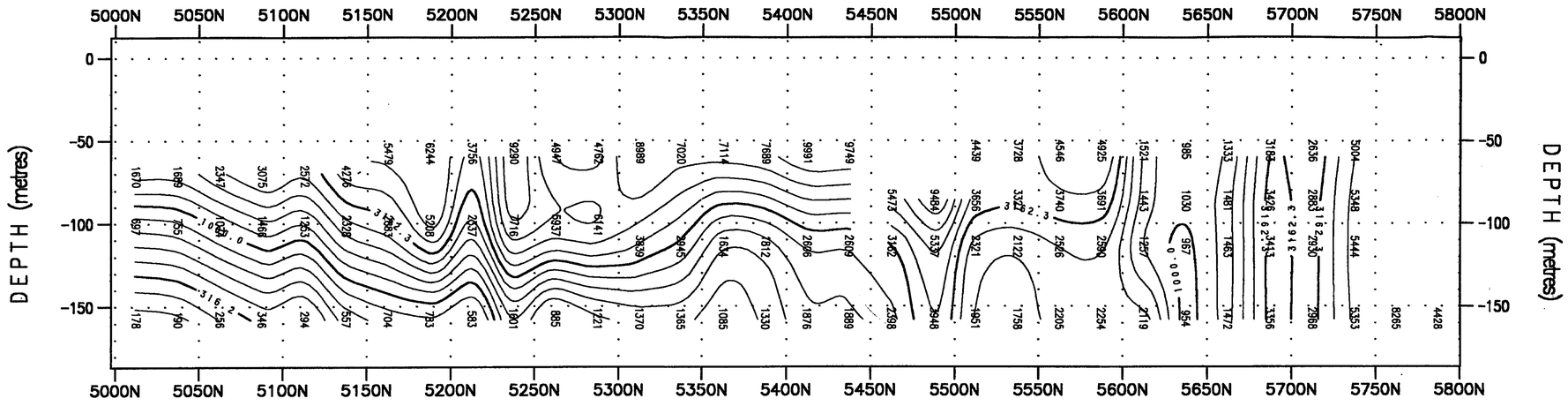
Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	1.4 to 2.0 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	12.5 to 25 metres
Contour Intervals:	RES = 10 levels/log decade CHG = 2, 10 mV/V
Colour Scale:	Equal Area Zoning
Survey Date:	P235=08/98; P256=06-07/99
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

Surveyed & Processed by:

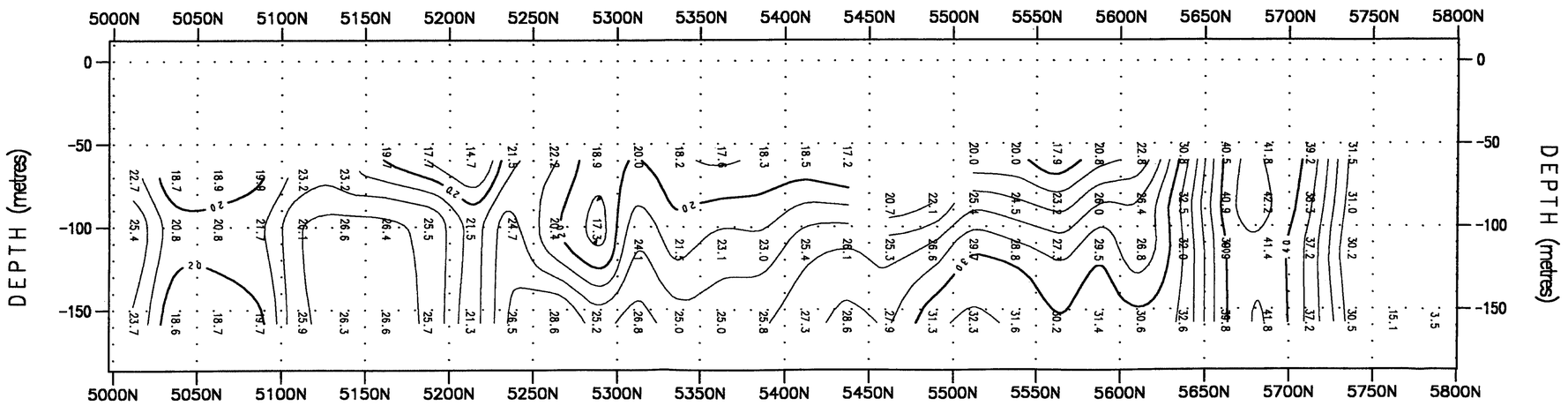
QUANTEC IP INC

DWG. #: P-235/256-RSIP-CHG-RES-100+50N

APPARENT RESISTIVITY (ohm-m) - L51+50E



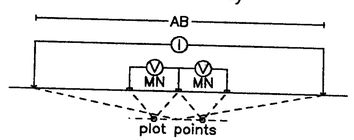
TOTAL CHARGEABILITY (mV/V)



094073

LINE 51+50E

Gradient Array



Scale 1:2500

50 0 50 100 150
(meters)

MANSON CREEK RESOURCES LTD.
VERA PROPERTY (Block B)
Rackla Camp, Yukon

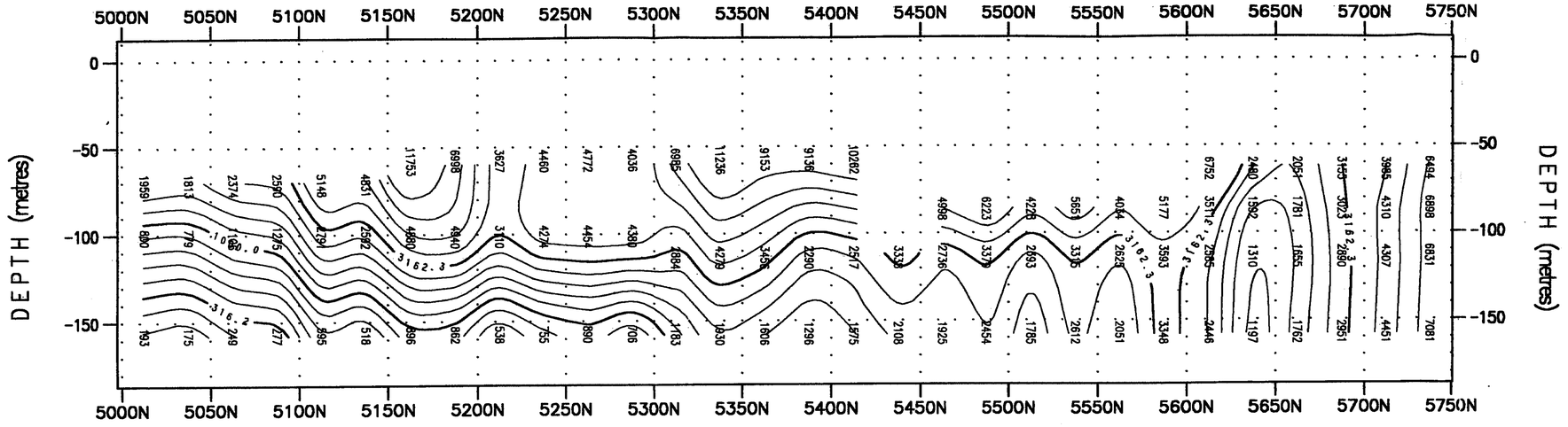
TIME DOMAIN IP SURVEY
REALSECTION L51+50E
(Multiple Gradient Arrays)

Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	up to 1.75 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	25 metres
Contour Intervals:	RES = 10 levels/log decade CHG = 2, 10 mV/V
Colour Scale:	Equal Area Zoning
Survey Date:	July, 1999
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

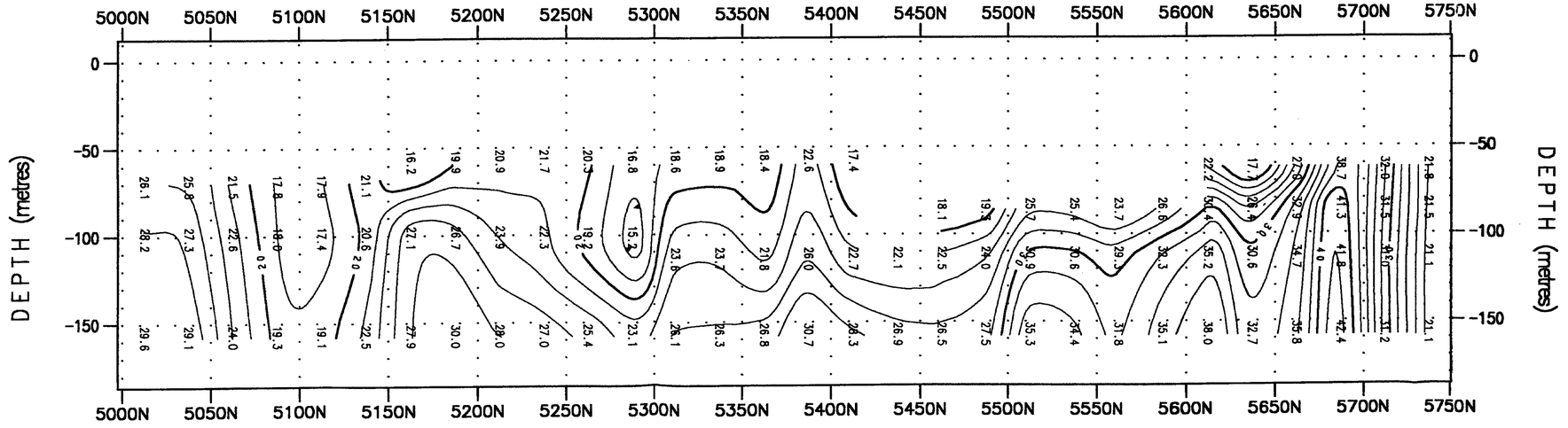
Surveyed & Processed by:
QUANTEC IP INC
DWG. #: P256-RSIP-CHG-RES-51+50E

Realsection Generated by CWilliston (08/13/99)

APPARENT RESISTIVITY (ohm-m) - L52+00E



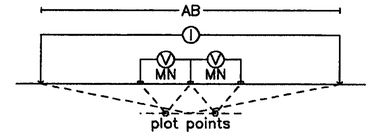
TOTAL CHARGEABILITY (mV/V)



094073

LINE 52+00E

Gradient Array



Scale 1:2500

50 0 50 100 150
(meters)

MANSON CREEK RESOURCES LTD.
VERA PROPERTY (Block B)
Rackla Camp, Yukon

TIME DOMAIN IP SURVEY
REALSECTION L52+00E
(Multiple Gradient Arrays)

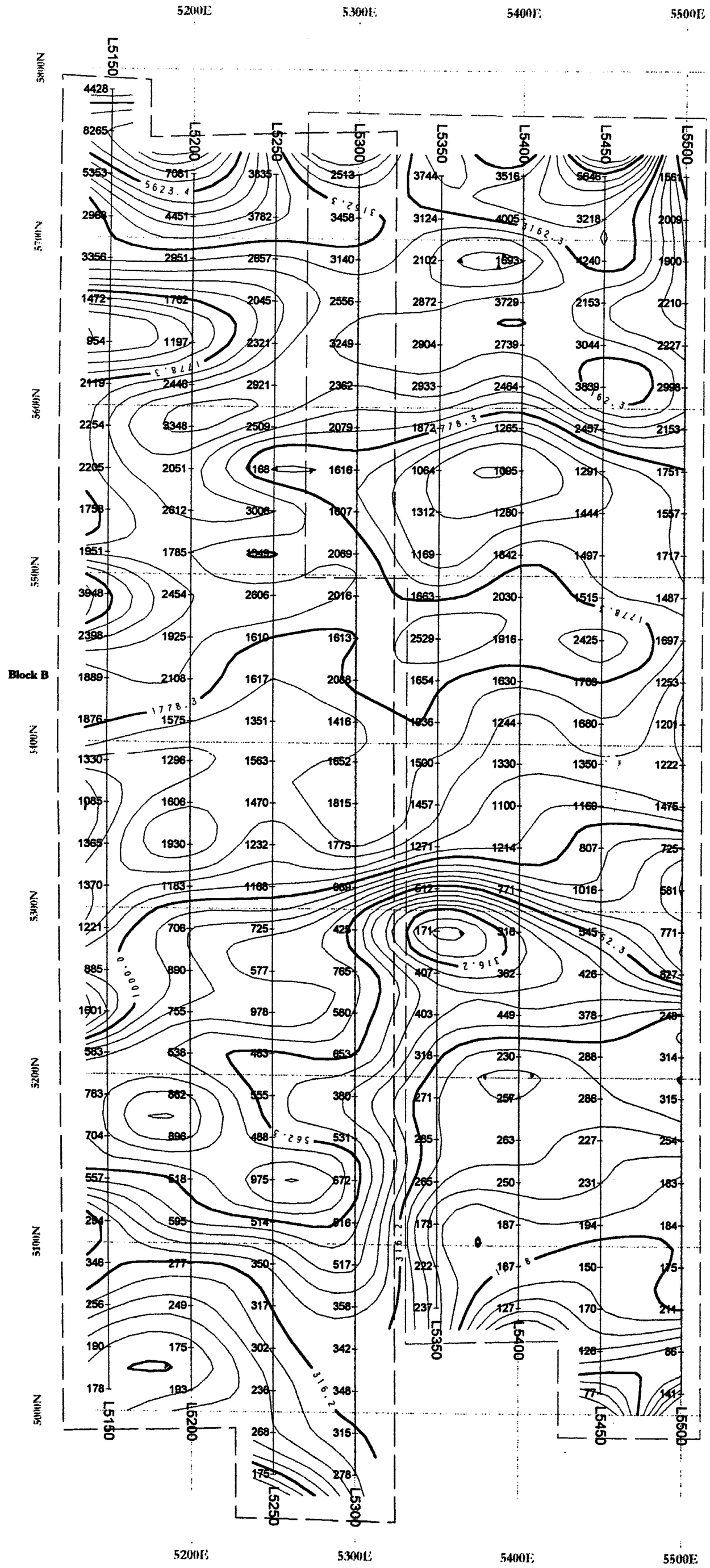
Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	up to 1.75 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	25 metres
Contour Intervals:	RES = 10 levels/log decade CHG = 2, 10 mV/V
Colour Scale:	Equal Area Zoning

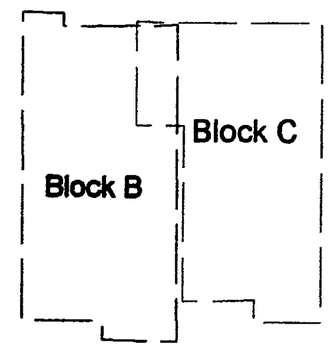
Survey Date:	July, 1999
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

Surveyed & Processed by:
QUANTEC IP INC
DWG. #: P256-RSIP-CHG-RES-52+00E

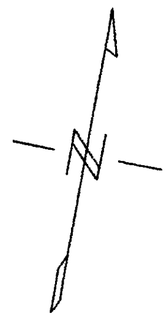
Realsection Generated by CWilliston (08/13/99)

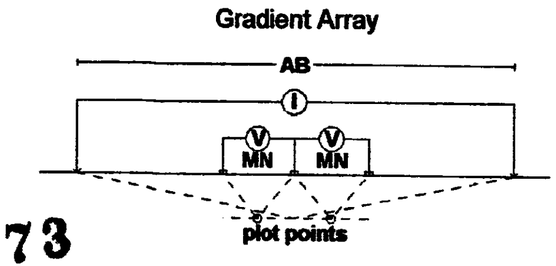
VERA PROPERTY - APPARENT RESISTIVITY (ohm-m)





TDIP Blocks





094073

Scale 1:2500

25 0 25 50 75 100 125 150

(meters)

MANSON CREEK RESOURCES LTD.

VERA PROPERTY (Blocks A+B)

Rackla Camp, Yukon

TIME DOMAIN IP SURVEY

Gradient Array (AB= 1000m)

APPARENT RESISTIVITY

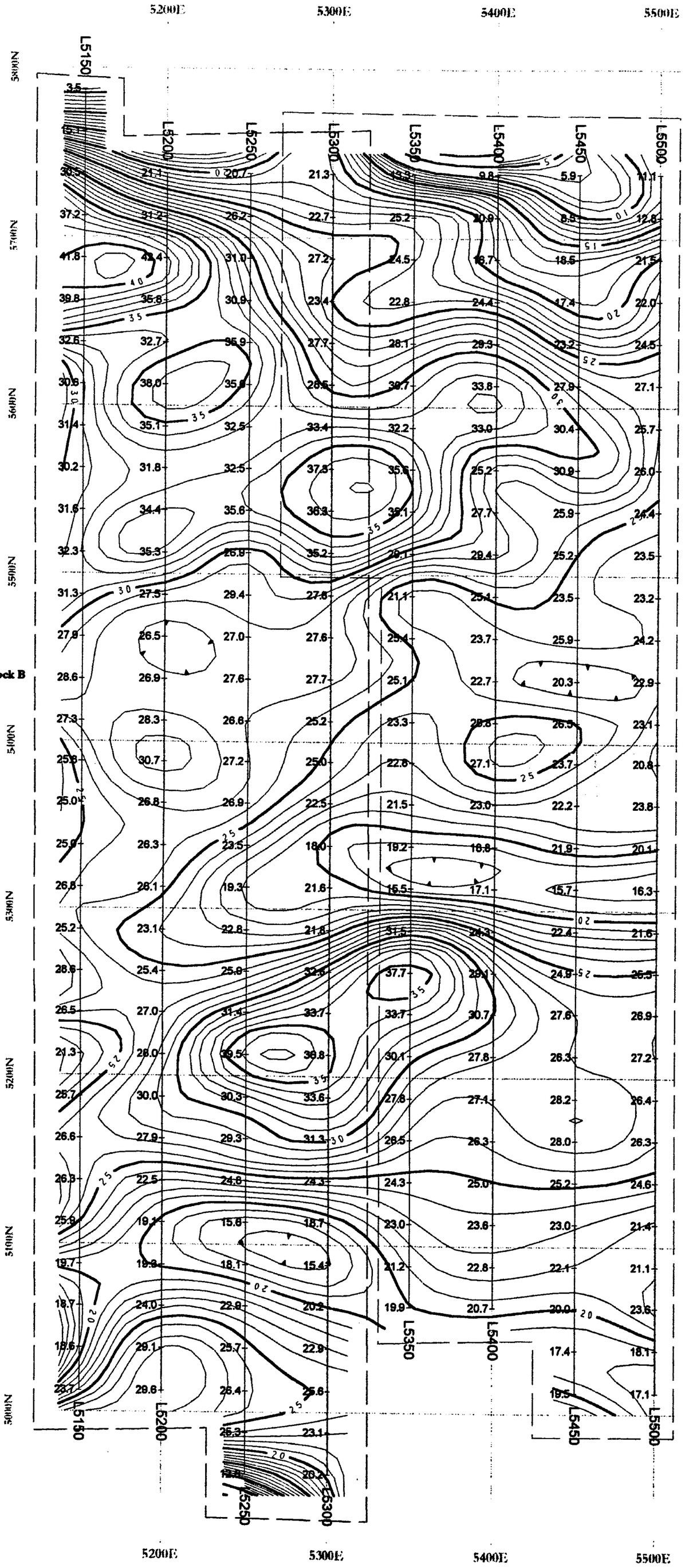
Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	up to 1.75 Amps
Decay Curve:	QIP IP-6 Custom Semilogarithmic Windows
	10 Gates (40ms to 1770ms)
Station Interval:	25 metres
Gridding Method:	Bi-Directional
Grid Cell Size:	12.5 units (2x Hanning Filter Applied)
Contour Interval:	20 levels/log decade
Colour Scale:	Equal Area Zoning
Survey Dates:	July, 1999
Instrumentation:	Rx = IRIS ELREC-10 (10 channels)
	Tx = Phoenix IPT-1

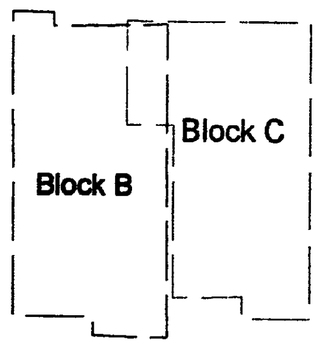
DWG. #: P-256-PLAN-RES-Vera

Surveyed & Processed by: Quantec GEOPHYSICS WORLDWIDE

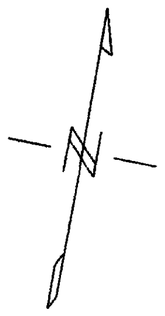
Map Generated by CWilliston (08/13/99)

VERA PROPERTY - TOTAL CHARGEABILITY (mV/V)

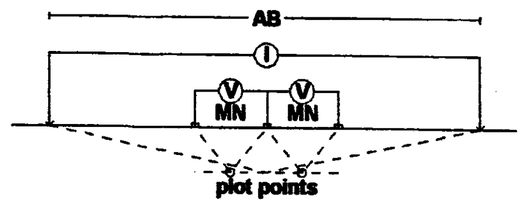




TDIP Blocks



Gradient Array



094 073

Scale 1:2500

25 0 25 50 75 100 125 150

(meters)

MANSON CREEK RESOURCES LTD.

VERA PROPERTY (Blocks A+B)

Rackla Camp, Yukon (B+C)

TIME DOMAIN IP SURVEY

Gradient Array (AB= 1000m)

TOTAL CHARGEABILITY

Transmitter Frequency:	**0.125 Hz (50% duty cycle)**
Transmitter Current:	**up to 1.75 Amps**
Decay Curve:	**QIP IP-6 Custom Semilogarithmic Windows**
	10 Gates (40ms to 1770ms)
Station Interval:	**25 metres**
Gridding Method:	**Bi-Directional**
Grid Cell Size:	**12.5 units (2x Hanning Filter Applied)**
Contour Interval:	**1, 5 mV/V**
Colour Scale:	**Equal Area Zoning**
Survey Dates:	**July, 1999**
Instrumentation:	**Rx = IRIS ELREC-10 (10 channels)**
	Tx = Phoenix IPT-1

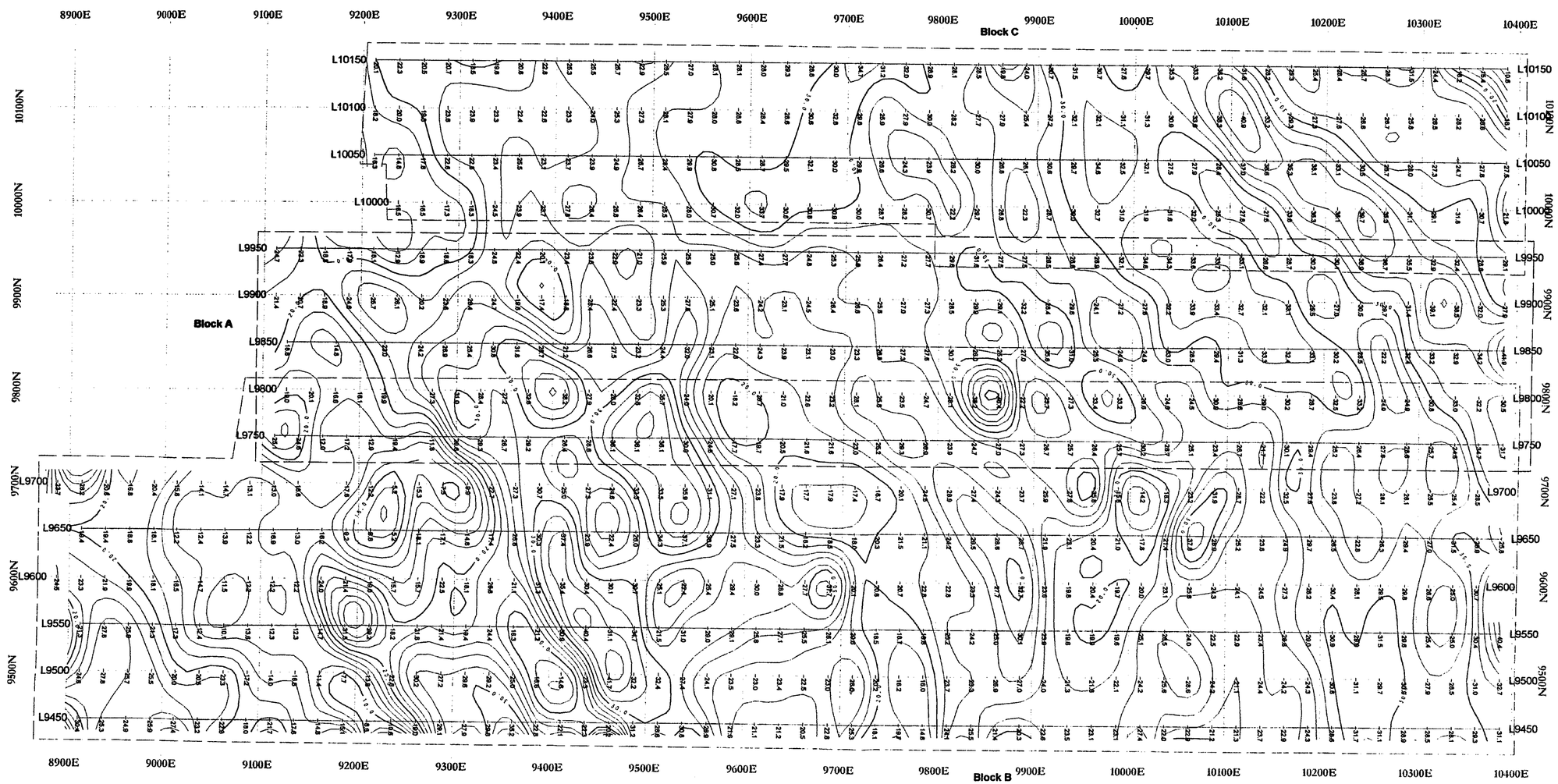
DWG. #: P-256-PLAN-CHG-Vera

Surveyed & Processed by: **Quantec**

GEOPHYSICS WORLDWIDE

Map Generated by CWilliston (08/13/99)

VAL PROPERTY - TOTAL CHARGEABILITY (mV/V)



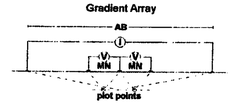
Phase II: Block C (1999) - P256

Phase I: Block A (1998) - P235

Phase II: Block B (1999) - P256

Phases of TDIP Survey

Gradient Array



Scale 1:2500

50 0 50 100 150

(meters)

MANSON CREEK RESOURCES LTD.

VAL PROPERTY (Blocks A,B+C)

Rackla Camp, Yukon

TIME DOMAIN IP SURVEY

Gradient Array (AB= 950-1000m)

TOTAL CHARGEABILITY

Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	up to 3.3 Amps
Decay Curve:	GIP IP-6 Custom Semilogarithmic Windows 10 Gates (40ms to 1770ms)
Station Interval:	25 metres
Gridding Method:	Bi-Directional
Grid Cell Size:	12.5 units (2x Hanning Filter Applied)
Contour Interval:	2, 10 mV/V
Colour Scale:	Equal Area Zoning
Survey Dates:	Phase I (P235) - 08/98; Phase II (P256) - 08/99
Instrumentation:	Rx = IRIS ELREC-10 (10 channels) Tx = Phoenix IPT-1

DWG. #: P-235/256-PLAN-CHG-Val

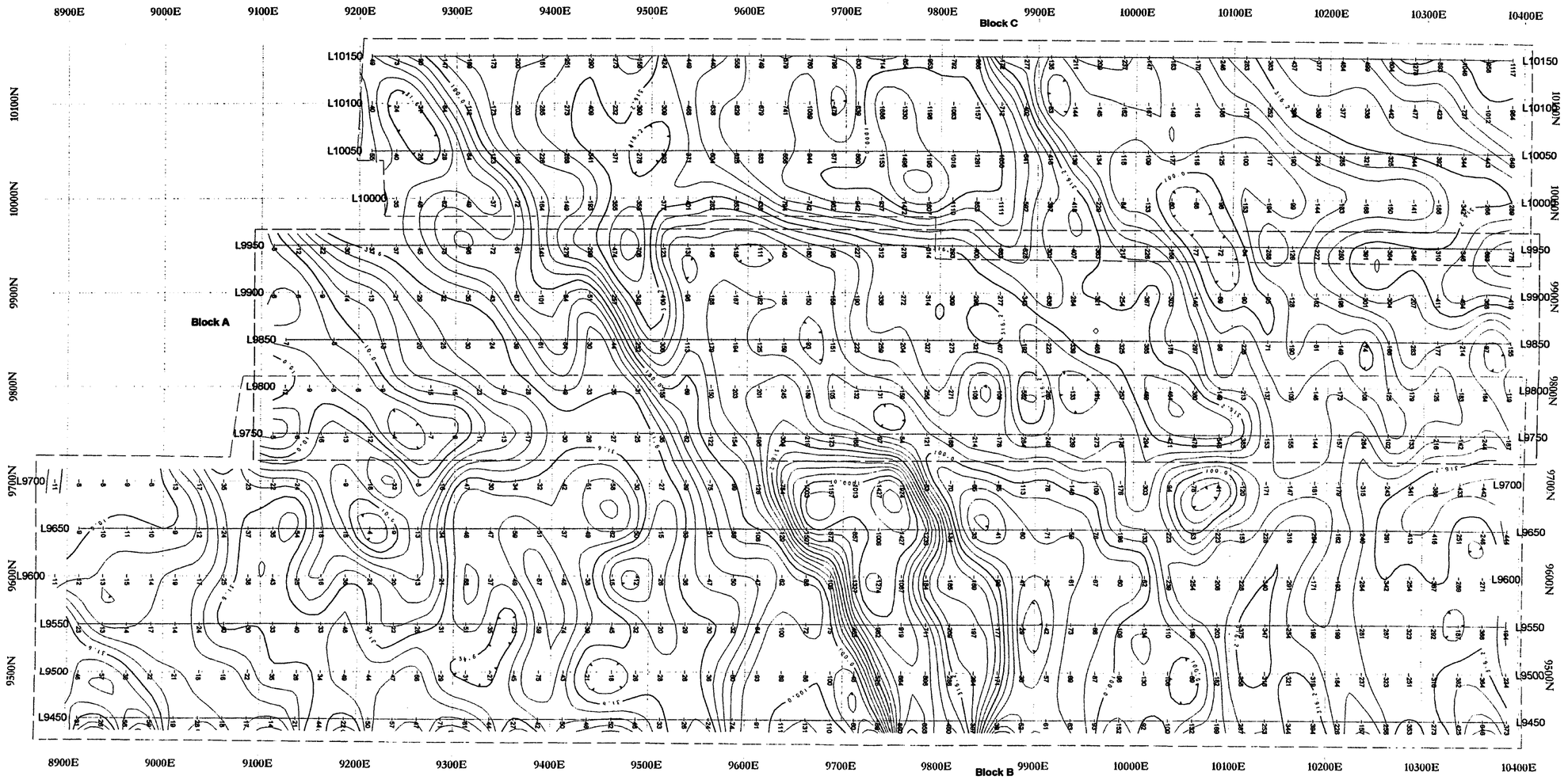
Surveyed & Processed by: Quantec GEOPHYSICS WORLDWIDE

Map Generated by CWilliston (09/1999)

094073

094-03

VAL PROPERTY - APPARENT RESISTIVITY (ohm-m)

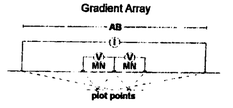


Phase II: Block C (1999) - P256

Phase I: Block A (1998) - P235

Phase II: Block B (1999) - P256

Phases of TDIP Survey



Scale 1:2500

50 0 50 100 150

(meters)

MANSON CREEK RESOURCES LTD.

VAL PROPERTY (Blocks A,B+C)

Rackla Camp, Yukon

TIME DOMAIN IP SURVEY

Gradient Array (AB= 950-1000m)

APPARENT RESISTIVITY

Transmitter Frequency:	0.125 Hz (50% duty cycle)
Transmitter Current:	up to 3.3 Amps
Decay Curve:	GIP IP-8 Custom Semilogarithmic Windows
	10 Gates (40ms to 1770ms)
Station Interval:	25 metres
Gridding Method:	Bi-Directional
Grid Cell Size:	12.5 units (2x Hanning Filter Applied)
Contour Interval:	10 levels/log decade
Colour Scale:	Equal Area Zoning

Survey Dates:	Phase I (P235) - 08/98; Phase II (P256) - 06/99
Instrumentation:	Rx = IRIS ELREC-10 (10 channels)
	Tx = Phoenix IPT-1

DWG. #: P-235/256-PLAN-RES-Val

Surveyed & Processed by: Quantec GEOPHYSICS WORLDWIDE

Map Generated by CWilliston (08/13/99)

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