

**Geochemical and Geophysical Assessment Report
on the Crack Moly Property
(Scuzzy Showing)
New Westminster Mining Division**

NTS 92H/13W

Latitude 49° 52'N; Longitude 121° 49'W
NAD 83, UTM Zone 10

For:

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GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT April, 2006

28,265



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1. Introduction

The Crack Moly property is located approximately 18 km southwest of Boston Bar, BC. The property covers a gossanous area within granodiorite and quartz monzonite, the Late Cretaceous Scuzzy pluton and represents a porphyry molybdenum target. Within the gossan three mineralized zones have been identified, the Central Moly, Sericite Fracture and Quartz-Moly Breccia.

Molybdenum mineralization has been observed as coarse-grained rosettes along selvages of larger quartz veins, as disseminations in the selvages of quartz veinlets and lining the walls of cavities in some breccias. Historic rock sample assays from programs in the 1980's range from 0.004% Mo in pyrite rocks to 8.27% Mo from a 10 cm wide quartz vein. In addition a 50 cm sample across a rusty weathering zone assayed >0.1% tungsten, the source of the tungsten was not identified. Soil geochemical sampling outlined a large zone of greater than 20 ppm Mo measuring 1500 x 500 metres with peripheral anomalous W geochemical values. Fracture controlled molybdenite mineralization was observed within the geochemical anomaly.

In 2005 field crews under the direction of United Exploration Management Inc. completed physical work (camp building, grid establishment), geochemical (rock sampling) and geophysical (IP) surveys on the Crack Moly project. The work was completed on two grids, the Scuzzy grid and the Alt grid. At the Scuzzy grid surveys included grid establishment, (7.45 line-kilometres), geochemical, (133 rock samples) and a 3D IP survey (7.45 line-kilometres). At the Alt grid surveys included grid establishment (7.6 line-kilometres) and a 3D IP survey (7.6 line-kilometres). No rock samples were collected from the Alt grid.

The property warrants further evaluation of the Scuzzy showing. Future work should involve further mapping, sampling, and preliminary drill testing of the Scuzzy showing and prospecting throughout the rest of the property.

2. Location Access and Topography

The Crack Moly property is centred on a north-south trending ridge line about 5 km east of the north-south valley occupied by Big Silver Creek, which drains into Harrison Lake. The claims are centred at 49° 52' North latitude and 121° 49' west longitude on NTS map sheet 92H/13 (Figure 1). The nearest community is Boston Bar, BC, approximately 30 kilometres to the east on Highway #1, the Trans-Canada highway. Helicopter service from Hope (65 km to the south) provides convenient access to the property on which landing sites are numerous. Helicopter access can also be gained from Boston Bar, however there is no helicopter base there.

Elevations on the property range from 760 metres (2,500') in the southeast portion of the claims to 1,950 metres (6,500') near the Scuzzy showing. The eastern, western and southern portions of the property are above timberline. The northern and central portions of the property lie on moderate to steep slopes that are forested with a variety of tree species. Local areas within the property are very steep and inaccessible.

Logging activity has created several road systems that pass within a few kilometres of the property, two of the roads actually enter the property boundaries. The Nahatlatch River logging road passes within 10 kilometres of the northern property boundary. To the east, along Kookipi Creek, recent logging activity provides a good road passing within the property at the south. As well, logging roads extend to the headwaters of Big Silver Creek in the valley hosting the Scuzzy showings. Roads here are within 1-2 km of the showings. Both the Nahatlatch Main and Kookipi roads provide access to Boston Bar, approximately 30 km by the road to the east. Boston Bar is serviced by Highway #1, and both the CN and CP railways.

Heavy equipment is available at any of the logging communities within 90 minutes drive of the property, principally Hope or Boston Bar. As well full services – police, hospitals, supplies, schools, restaurants and hotels are available. Vancouver, 3 hours drive west, has drilling and assay facilities.

Major power transmission lines are 20 km east along Highway #1 and several river power-generating facilities have been built or are proposed within 30 km of the project area. Small creeks and lakes within the property are suitable to support exploration activities.



Figure 1. Location Map

3. Claim Status

The Crack Moly property is comprised of the SCH 1 to SCH 7 claims and the Scuzzy 1 claim, located in the New Westminster Mining Division. The claims are centred at 49° 52' North latitude and 121° 49' west longitude on NTS map sheet 92H/13 and are shown on Figure 2. All claims are registered now to Pacific Cascade Minerals Inc. having been sold by United Exploration. Claim details are shown in Table 1 and reflect assessment credits claimed from the 2005 exploration program the work for which is described in this report.

Table 1. Crack Moly Property Claim Status

Tenure #	Claim Name	Date Registered	Expiry Date	# Cells	Area (ha)	Registered Owner
518498	SCH 1	July 28/05	Jan. 12/08	18	375.316	Pacific Cascade Minerals
518507	SCH 2	July 28/05	Jan. 12/08	16	336.626	Pacific Cascade Minerals
518508	SCH 3	July 28/05	Jan. 12/08	25	521.085	Pacific Cascade Minerals
518510	SCH 4	July 28/05	Jan. 12/08	25	521.128	Pacific Cascade Minerals
518512	SCH 5	July 29/05	Jan. 12/08	25	521.198	Pacific Cascade Minerals
518513	SCH 6	July 29/05	Jan. 12/08	25	520.92	Pacific Cascade Minerals
518514	SCH 7	July 29/05	Jan. 12/08	25	520.98	Pacific Cascade Minerals
501386	Scuzzy 1	Jan 12/05	Jan. 12/08	25	521.079	Pacific Cascade Minerals
	8 claims			184	3338.332	

In British Columbia mineral claim assessment requirements are \$4.00 of work per hectare, or cash in lieu, plus \$0.40 filing fees per hectare for the first three years, thereafter rising to \$8.00 of work per hectare per year plus \$0.40 filing fees per hectare per year.

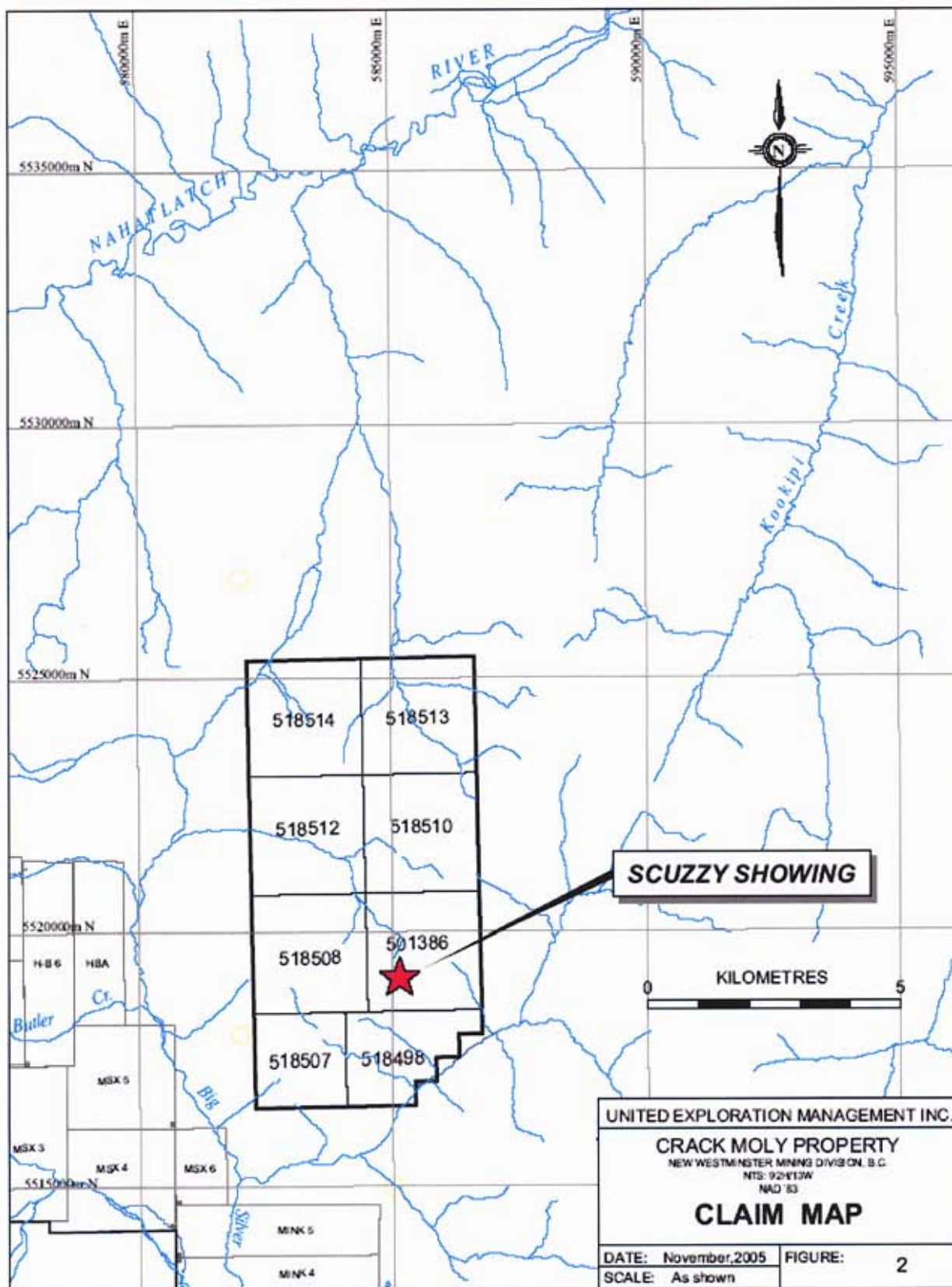


Figure 2. Claim Map

4. History

The area was first recognized in August 1980 when molybdenite was discovered in a float sample at the headwaters of Big Silver Creek. Follow-up prospecting discovered molybdenite-bearing quartz veins in an area of strong gossan staining. The area was staked and work commenced in September of the following year, 1981. From 1981 to 1984 the property was worked on by JMT Services Corp.

In the 1981 program JMT Services Corp. undertook a preliminary mapping and rock chip-sampling program on two claims, which covered the gossanous ridge. A total of 157 rock chip samples were collected and analysed for Cu, Mo, Pb, Zn, W and F. Contouring of the rock sample data showed the 5 ppm Mo contour corresponded closely to the outer limit of quartz veining. The >20 ppm Mo contour defined an area measuring about 1,500 m x 500 m lying within the breccia complex. Molybdenum values ranged from 1 to >250 ppm, visible molybdenite was observed in some rock samples. Tungsten data outlined anomalous zones outward from the molybdenum zone and were roughly centred on the northwest boundary of the breccia complex. Values ranged from 1 to 750 ppm tungsten. An east-west trending copper anomaly (>20 ppm Cu) flanks the southern margin of the breccia complex with a north-trending lobe on the west side of the breccia complex. Copper values ranged from 1-3300 ppm with chalcopyrite observed in hand samples. Zinc values outlined an anomalous area (>50 ppm) centred on the north-central border of the breccia complex. Zinc values ranged from 1-3,200 ppm zinc.

A limited program (3 days) was completed in September 1982. This work included mainly a study of fracture patterns on an enlarged air photo of the claims and study of the intensity of mineralization within the molybdenum rock geochemical anomaly. This was achieved by comparing air photo linears with the mineralized fractures seen in the field. In addition seven rock chip samples were collected from molybdenite-bearing veins and assayed for precious metals content; with seven rock chip sampled collected and analyzed. Molybdenum values ranged from 0.004% to a high of 8.27%, the latter from a 10 cm wide quartz-molybdenite vein. Tungsten values ranged from 5 to >1,000 ppm, the latter a 0.5 metre chip sample across a rusty weathering zone; no significant precious metals assays were returned.

The objective of the 1984 program was to test previously collected rock samples for precious metals and additional elements to aid in spotting drill holes. A total of 150 rock chip sample pulps were analysed for Au, Ag, Co and Ni by US Borax Research Corp., USA.

Only silver produced a contourable pattern, a few samples were anomalous in gold and generally correspond to the highest silver assays. Cobalt and nickel were quite flat. Silver values ranged from 0.2 ppm to 32.4 ppm, only three samples returned gold assays exceeding analytical detection limits, those sampled ranged from 0.05 ppm to 0.18 ppm. The ≥ 1.0 ppm silver contour flanks the south and west margins of the ≥ 20 ppm molybdenum contour. A smaller area of ≥ 1.0 ppm silver lies on the northeast portion of the breccia complex. Of interest were the two highest silver assays, 32.4 and 6.3 ppm occur near the 050 trending sericite fracture zones.

At the time the author concluded that the Scuzzy showing represented a high-level molybdenum property that should be evaluated in that light and under more favourable molybdenum market conditions.

5. Regional Geology

The property is situated near the axis of the Cascade Range which is underlain by broad areas of granitoid intrusions: the Spuzzum and Scuzzy plutons, flanked on the west by pendants of Custer gneiss and dark pelitic schists of probable Paleozoic age, and on the east by meta-sediments of possible Triassic age (Figure 3). The Spuzzum pluton is dated at 74 My. and the Scuzzy Pluton at 70 m.y. Younger (Late Tertiary) intrusions are known in the Hope area - 18 m.y. and a number of early Tertiary volcanic centres exist north of the prospect.

Numerous molybdenite occurrences are present in an arcuate pattern following the central axis of the Cascade Range, and include AM breccia 40 km southeast of Hope, the "Pipe" prospect on Sawmill Creek near Yale, the "Gem" deposit on Clear Creek, 28 km south of the claims, the Cataract deposits 35 km northwest, and several other occurrences extending north-westward to Salal Creek, 150 km northwest.

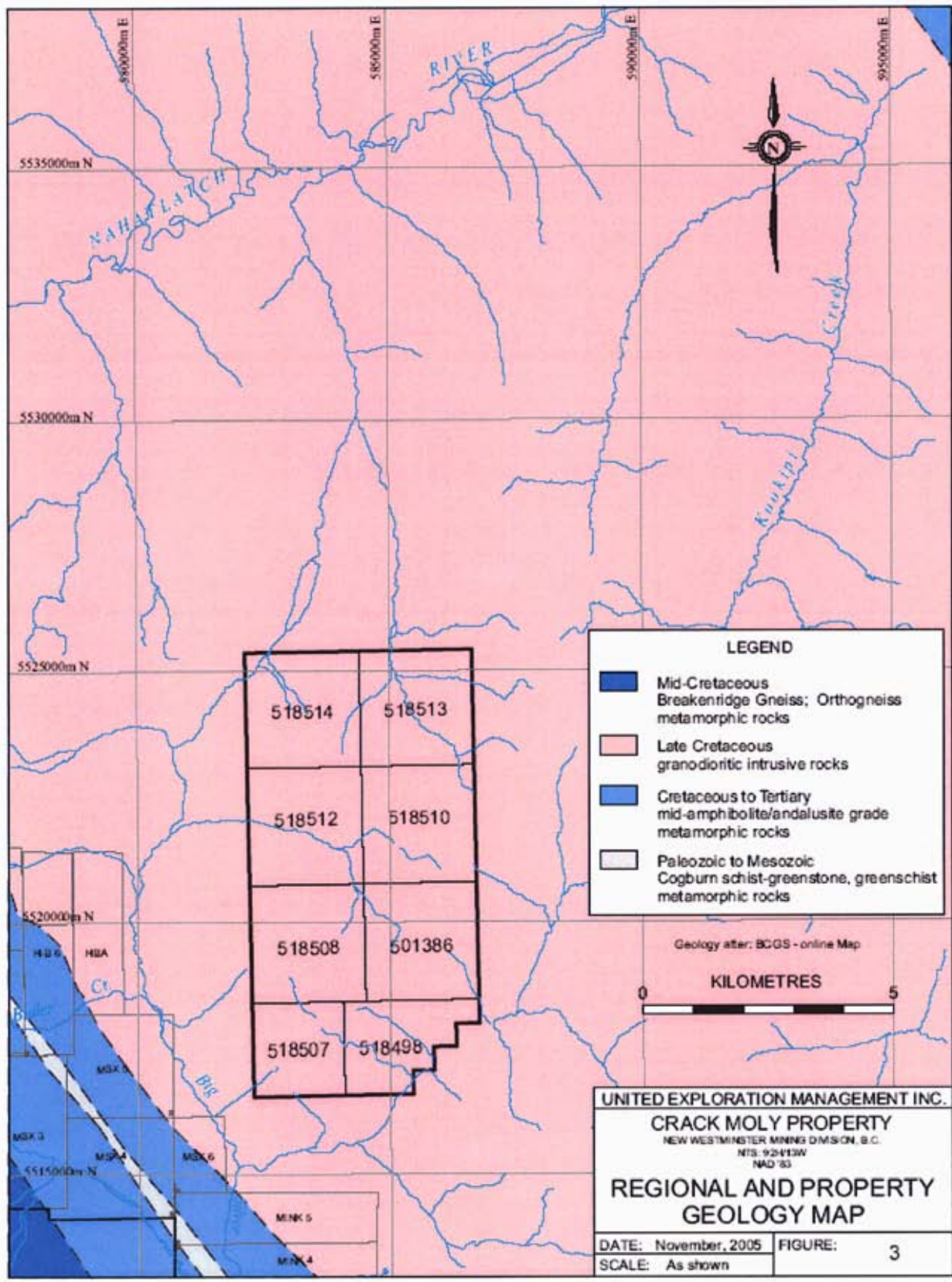


Figure 3. Regional Geology

6. Property Geology

The Scuzzy showing covers a rusty, weakly altered and mineralized phase of the Scuzzy pluton; the subtle gossan stands out well against the uniform grey barren appearance of the large plutonic mass. Detailed geology of the showing is shown on Figure 4.

The barren country rock is medium grained, quartz-rich granitoid – probably a granite or quartz monzonite, with approximately 5% mafics (biotite exceeds hornblende) and abundant subhedral quartz phenocrysts. Minor but noticeable muscovite is present.

Traversing across the Scuzzy showing the first noticeable change in the rock is rusty coloration. At this point no mineralogical or textural difference exists. Continuing into the zone, the rock becomes slightly pyritized and mafics are destroyed, giving the rock a leucocratic appearance. Zones of silicification occur where clay alteration is noticeable as greenish colouration and quartz veins are common. Chloritic alteration is present where mafics are still present. In the centre of the zone of interest a prominent dark coloured feldspar porphyry dyke occurs. This forms a sharp rusty coloured ridge that forms the western limit of a small cirque. Another elongate section of the dyke is seen in the south-central area of the cirque, and a prominent lineation trending northeastward through the cirque probably has offset the dyke by several hundred metres. The dyke contains fresh biotite, pyrite and has quartz veins (barren) and inclusions of quartz monzonite. The rock may be a variety of lamprophyre and is thought to be pre-mineral.

The fault zone mentioned previously is marked by a topographic depression trending northeastward and cuts off the western limb of the lamprophyre dyke. The fault zone contains a quartz vein 30 cm wide. South of the fault, alteration is stronger and the rock is slightly coarser-grained.

The best mineralization is present within the cirque area and may be related to the intersection of the dyke and the fault. The south limit of alteration and mineralization is marked by the northeast trending ridge that forms the south wall of the cirque. The actual zone of interest is roughly 600 metres in diameter.

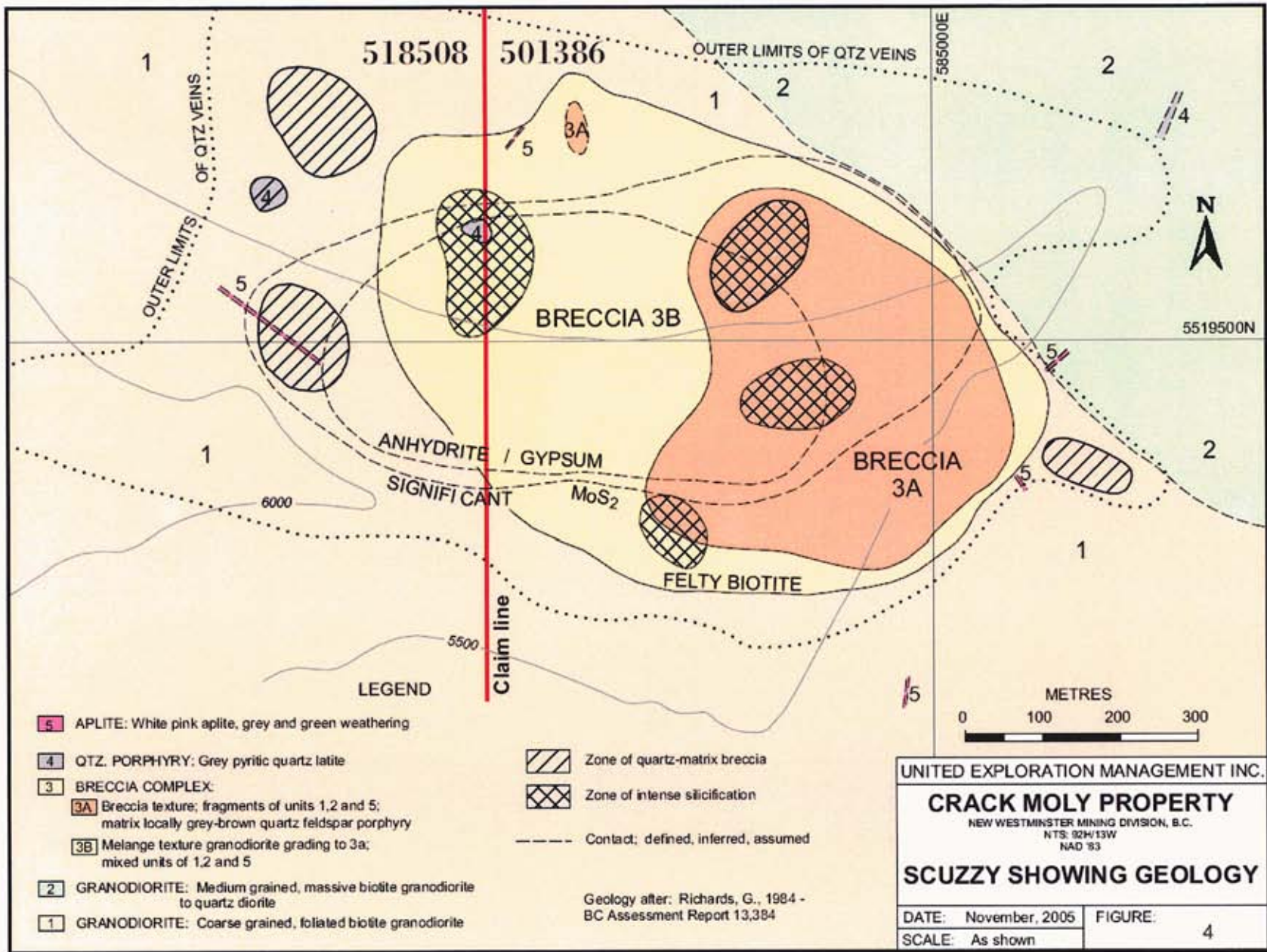


Figure 4. Property Geology - Scuzzy Showing

The molybdenite and very sparse chalcopyrite mineralization is confined to quartz veins and siliceous zones and is mostly fine-grained. Nowhere is the mineralization particularly abundant. Nevertheless, molybdenite is scattered over the altered and rusty zone and this covers a significant area that is worthy of further exploration.

Past mapping programs have outlined three zones within the area of interest. These zones are named the Central Moly Zone, the Sericite Fracture zone, and the Quartz-Moly Breccia zone.

At the Central Moly Zone fracture controlled molybdenite is the predominant sulphide although minor pyrite, chalcopyrite and pyrrhotite are associated. The molybdenite occurs in spectacular coarse-grained rosettes along the selvages of the large quartz veins as much as 10 cm in width. Finer grained platy and disseminated molybdenite occur on the selvages of narrow quartz stringers, ribbon quartz veins, and along the walls of the interstitial cavities in some breccias, occasionally forming thick blebs of solid molybdenite. Molybdenite also occurs with other sulphides as fine coatings along tight fractures. Conspicuous molybdenite is restricted to approximately the innermost 200 metre central core of the molybdenite zone. Outwards, molybdenite becomes harder to detect visually.

In the Sericite Fracture Zone about ten very prominent fractures occur along the cliff face. They trend 050°, are spaced about 10 m apart, and contain abundant coarse sericite in zones approximately one-half metre wide with quartz veinlets containing pyrite, molybdenite and chalcopyrite. In the field they extended at least 200 m southwest where they disappeared over the ridgeline. To the northeast they continue some distance.

The Quartz-Moly Breccia Zone is a brecciated intrusive unit comprised of a quartz matrix breccia containing occasional blebs of coarse molybdenite up to 10 cm wide but generally two to four centimetres across. The molybdenite occasionally has minor associated pyrite and heavy Mn staining. Otherwise the quartz is white and free of other minerals. The breccia fragments are angular and measure one-half to five metres in maximum dimension often displaying only minor rotation.

7. 2005 Exploration Program

A preliminary evaluation of the property was undertaken over the course of the summer. This work included prospecting and geochemical rock sampling and an IP survey over two grids, named the Scuzzy Grid and the Alt Grid. Work done included physical work (camp building, grid establishment), geochemical (rock sampling) and geophysical (IP) surveys. The work was completed on two grids, the Scuzzy grid and the Alt grid. At the Scuzzy grid surveys included grid establishment, (7.45 line-kilometres), geochemical, (133 rock samples) and a 3D IP survey (7.45 line-kilometres). At the Alt grid surveys included grid establishment (7.6 line-kilometres) and a 3D IP survey (7.6 line-kilometres). No rock samples were collected from the Alt grid. All work was completed in the alpine, above treeline.

Rock samples collected from the 2005 exploration surveys focused on areas within the breccia complex hosting higher density quartz \pm molybdenite veining, and from areas of strongly brecciated rock. Samples were a mix of grab and chip samples. Samples were stored at the field camp and flown out to a staging area on the logging road in Big Silver Creek valley. From the staging area samples were transported by truck to ALS Chemex in North Vancouver.

7.1 ROCK GEOCHEMICAL SAMPLING

Rock grab samples were collected from three areas as follows: FWC (44 samples), W Crack (39 samples), and E Crack (49 samples) for a total of 133 rock samples. Sample locations for the three groups are shown on Figure 5, rock sample descriptions are included as Appendix 1, Assay Certificates and procedures are included as Appendix 2.

In general, the results show sodium depletion throughout the areas sampled. No significant precious metal values (silver) have been received from the sampling. Ore grade assay techniques for copper and molybdenum on average are about 10% higher than the corresponding ICP results. Contaminant elements, such as arsenic and mercury are low, there are some samples reporting elevated arsenic, only 11 of 132 samples reported mercury assays exceeding the analytical detection limit, to a high of 9 ppm.

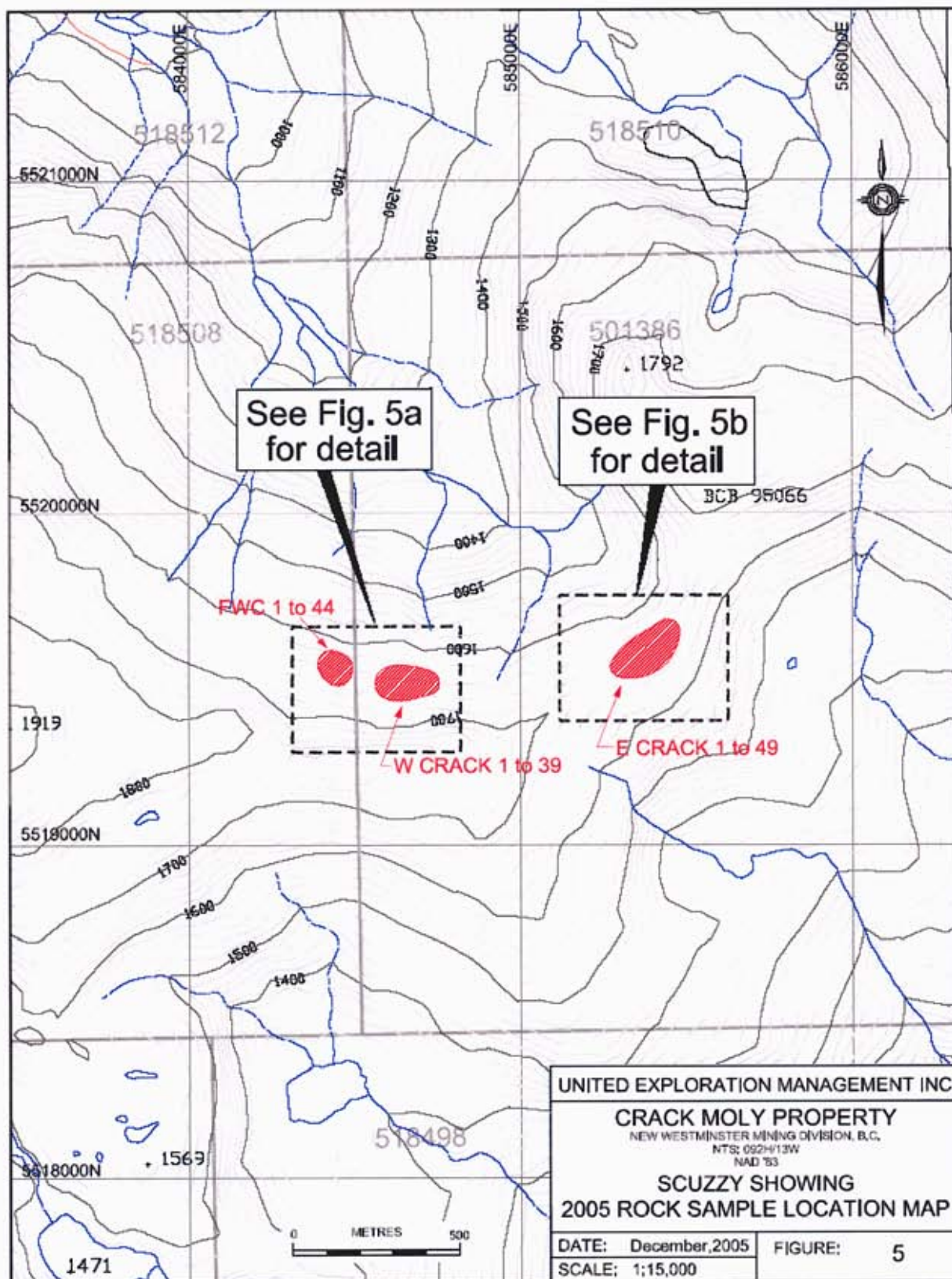


Figure 5. 2005 Rock Sample Location Map

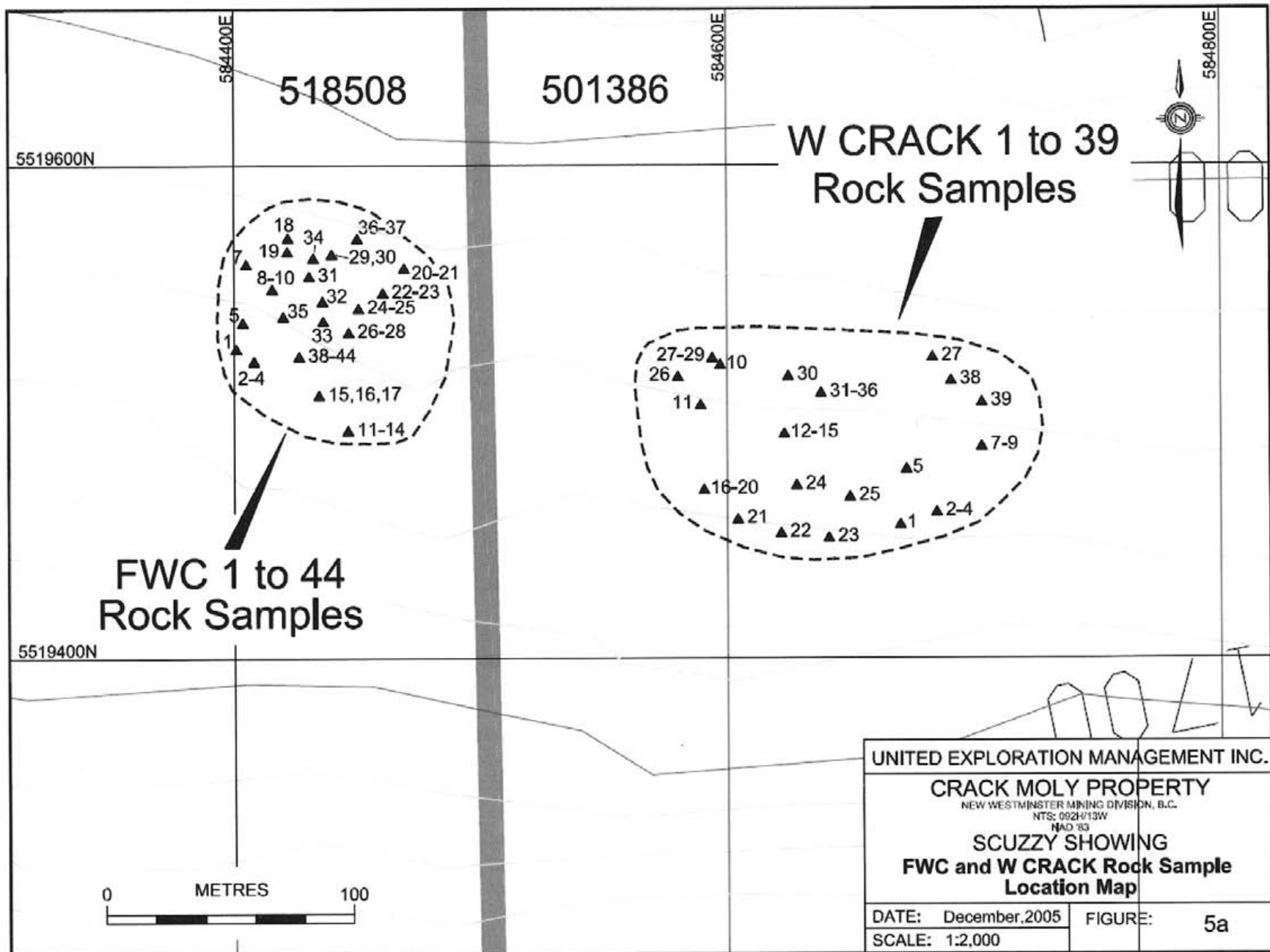


Figure 5a. FWC & W Crack Rock Sample Location Map

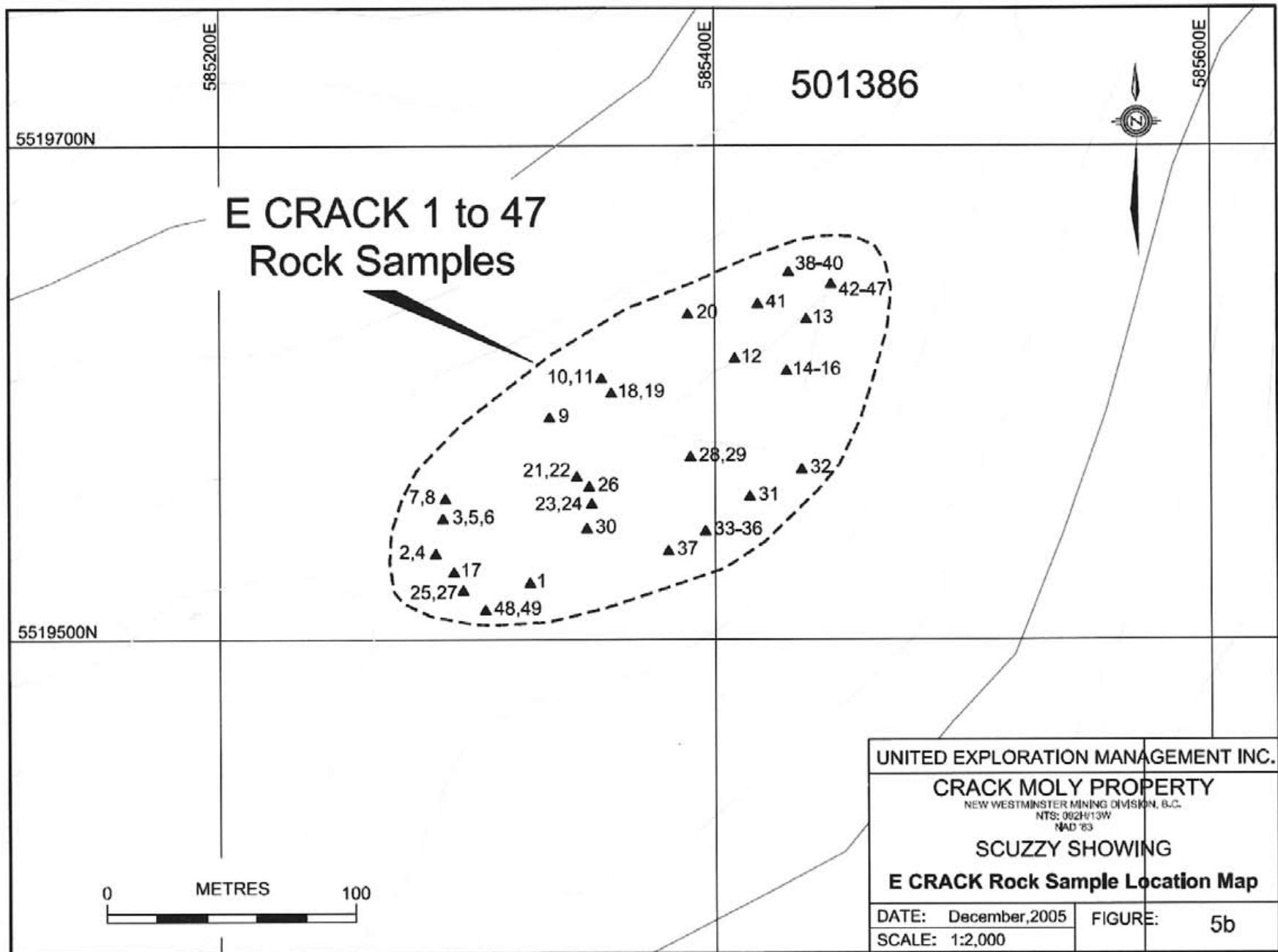


Figure 5b. E Crack Rock Sample Location Map

FWC 1 to 44

Samples from this area are generally higher in molybdenum than the other two areas and the best results from the program are in this area. Copper values are lower and not as prevalent as those received from the other two areas. A summary of the more significant values is shown on Table 2.

W Crack 1 to 39

The samples taken on this area reported several anomalous copper and molybdenum values. The more significant assays are summarized in Table 3.

Table 2. FWC Rock Samples

Sample No	Cu ppm (%)	Mo ppm (%)	W ppm (%)
FWC 1	142	12	<50
FWC 2	57	40	<50
FWC 3	374	267	(0.09)
FWC 4	68	12	<50
FWC 5	111	37	<50
FWC 6	262	48	<50
FWC 7	25	23	<50
FWC 8	41	122	<50
FWC 9	91	343	<50
FWC 10	37	173	<50
FWC 11	16	209	<50
FWC 12	42	6	<50
FWC 13	192	70	<50
FWC 14	189	108	<50
FWC 15	18	23	<50
FWC 16	39	104	<50
FWC 17	60	40	<50
FWC 18	430	(0.094)	110
FWC 19	48	(0.128)	<50
FWC 20	68	241	<50
FWC 21	220	(0.310)	<50
FWC 22	46	(0.094)	<50
FWC 23	201	74	<50

Sample No	Cu ppm (%)	Mo ppm (%)	W ppm (%)
FWC 24	104	(0.077)	<50
FWC 25	298	(0.106)	150
FWC 26	94	346	<50
FWC 27	96	96	<50
FWC 28	104	(0.056)	<50
FWC 29	143	112	<50
FWC 30	88	27	<50
FWC 31	285	100	<50
FWC 32	(0.08)	84	70
FWC 33	140	59	<50
FWC 34	91	174	<50
FWC 35	42	43	<50
FWC 36	160	71	110
FWC 37	159	(0.064)	<50
FWC 38	39	30	<50
FWC 39	303	26	<50
FWC 40	134	134	<50
FWC 41	42	(0.359)	<50
FWC 42	44	26	<50
FWC 43	253	40	<50
FWC 44	44	(0.228)	<50

Table 3. W Crack Rock Samples

Sample No	Cu ppm (%)	Mo ppm (%)	W ppm (%)
WCrack 1	157	24	<50
WCrack 2	205	25	<50
WCrack 3	215	31	<50
WCrack 4	90	(0.086)	50
WCrack 5	(0.34)	19	200
WCrack 6	65	28	<50
WCrack 7	463	97	<50
WCrack 8	(0.10)	25	100
WCrack 9	170	23	<50
WCrack 10	110	120	<50
WCrack 11	(0.20)	50	90

Sample No	Cu ppm (%)	Mo ppm (%)	W ppm (%)
WCrack 12	240	32	<50
WCrack 13	33	51	<50
WCrack 14	58	34	<50
WCrack 15	52	15	<50
WCrack 16	(0.46)	52	80
WCrack 17	225	128	<50
WCrack 18	414	114	160
WCrack 19	75	62	<50
WCrack 20	74	16	<50
WCrack 21	110	99	<50
WCrack 22	14	24	<50
WCrack 23	169	12	<50
WCrack 24	(0.13)	229	<50
WCrack 25	197	53	<50
WCrack 26	132	14	130
WCrack 27	84	(0.128)	<50
WCrack 28	54	(0.329)	<50
WCrack 29	88	(0.055)	<50
WCrack 30	50	152	<50
WCrack 31	59	28	<50
WCrack 32	48	27	<50
WCrack 33	381	15	<50
WCrack 34	152	46	<50
WCrack 35	99	30	70
WCrack 36	207	158	<50
WCrack 37	206	328	<50
WCrack 38	199	358	<50
WCrack 39	153	(0.082)	<50

Table 4. E Crack Rock Samples

Sample No	Cu ppm (%)	Mo ppm (%)	W ppm (%)
ECrack 1	329	23	<50
ECrack 2	380	104	<50
ECrack 3	69	11	<50
ECrack 4	251	168	<50
ECrack 5	525	228	<50
ECrack 6	94	21	<50
ECrack 7	31	7	<50
ECrack 8	479	41	<50
ECrack 9	88	55	<50
ECrack 10	20	16	<50
ECrack 11	25	14	<50
ECrack 12	10	12	<50
ECrack 13	43	12	<50
ECrack 14	90	134	<50
ECrack 15	97	170	<50
ECrack 16	102	58	<50
ECrack 17	416	18	<50
ECrack 18	27	9	<50
ECrack 19	22	361	<50
ECrack 20	34	18	<50
ECrack 21	123	43	<50
ECrack 22	48	106	<50
ECrack 23	42	8	<50
ECrack 24	32	15	<50
ECrack 25	116	115	<50
ECrack 26	115	41	<50
ECrack 27	12	225	<50
ECrack 28	209	21	<50
ECrack 29	368	152	<50
ECrack 30	69	77	<50
ECrack 31	23	9	<50
ECrack 32	35	120	<50
ECrack 33	63	154	<50
ECrack 34	183	80	<50
ECrack 35	470	169	<50

Sample No	Cu ppm (%)	Mo ppm (%)	W ppm (%)
ECrack 36	96	293	<50
ECrack 37	858	21	<50
ECrack 38	109	170	<50
ECrack 39	56	17	<50
ECrack 40	75	18	<50
ECrack 41	44	9	<50
ECrack 42	52	10	<50
ECrack 43	24	11	<50
ECrack 44	38	94	<50
ECrack 45	32	83	<50
ECrack 46	20	83	<50
ECrack 47	154	7	<50
ECrack 48	(0.09)	12	<50
ECrack 49	424	16	<50

E Crack 1 to 49

This area yielded the lowest results of the three areas sampled. Three samples reported anomalous copper, samples E Crack 5, 37 and 48 assayed 0.06%, 0.08% and 0.09% copper respectively. Elevated values of molybdenum were also reported with 14 of 49 samples assaying >100 ppm to a high of 361 ppm molybdenum from sample E Crack 19.

7.2 3-D INDUCED POLARIZATION GEOPHYSICAL SURVEY

SJ Geophysics Ltd. of Delta, BC, was contracted to complete an IP survey over two grids on the property to aid in identifying drill targets and defining the limits of the mineralization. The Alt grid was surveyed between August 19-27, 2005 and the Scuzzy grid from September 1-10, 2005. The geophysical crew also assisted in camp and grid set-up. Full details of the survey parameters are included in Appendix 3: IP Geophysical Survey, which includes the report, the line by line IP sections, and the plan maps at various depths below surface.

Scuzzy Grid

The IP survey generally agrees with the geological mapping and outlines the intrusive breccia complex. Chargeability data indicates a chargeable zone that extends to a depth of nearly 250 metres below surface. A slice at 50 metres below surface reveals a number of chargeable zones along the periphery of the breccia pipe (Figure 6). A slice at 250 metres below surface shows a chargeability zone on the southern and southeastern flank of the breccia complex (Figure 7) with a coincident resistivity low (Figure 8).

There are chargeability responses on the western edge of the grid but these have been discounted as they are attributed to an edge effect.

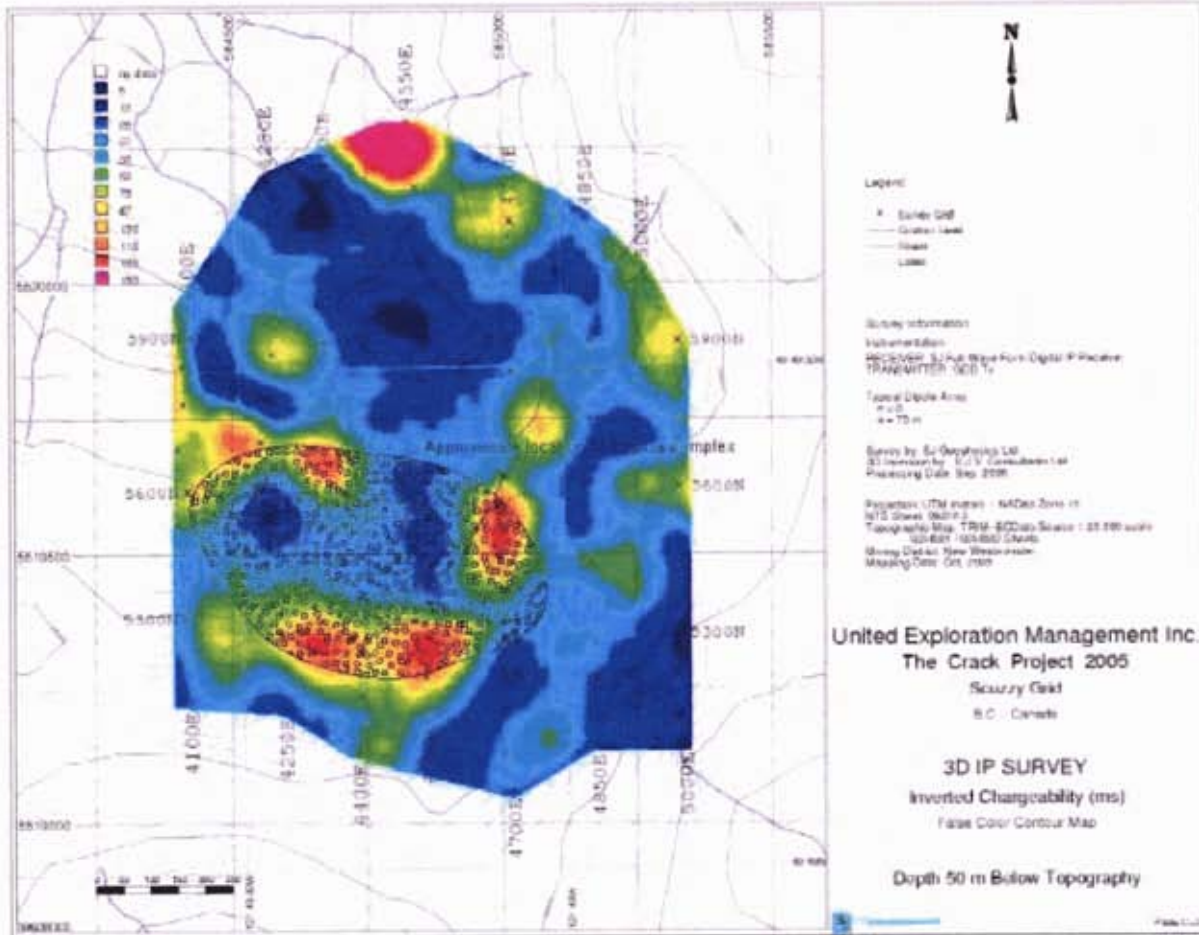


Figure 6. Scurry Grid - Inverted Chargeability - 50 metres depth

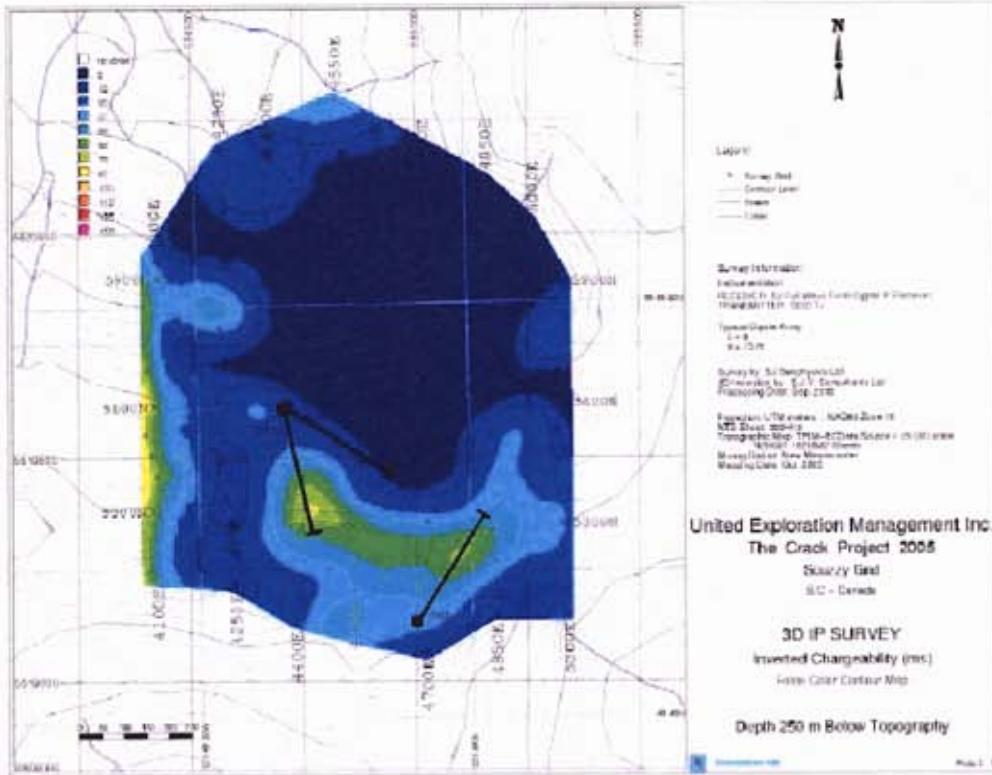


Figure 7. Scuzzy Grid - Inverted Chargeability - 250 metres depth

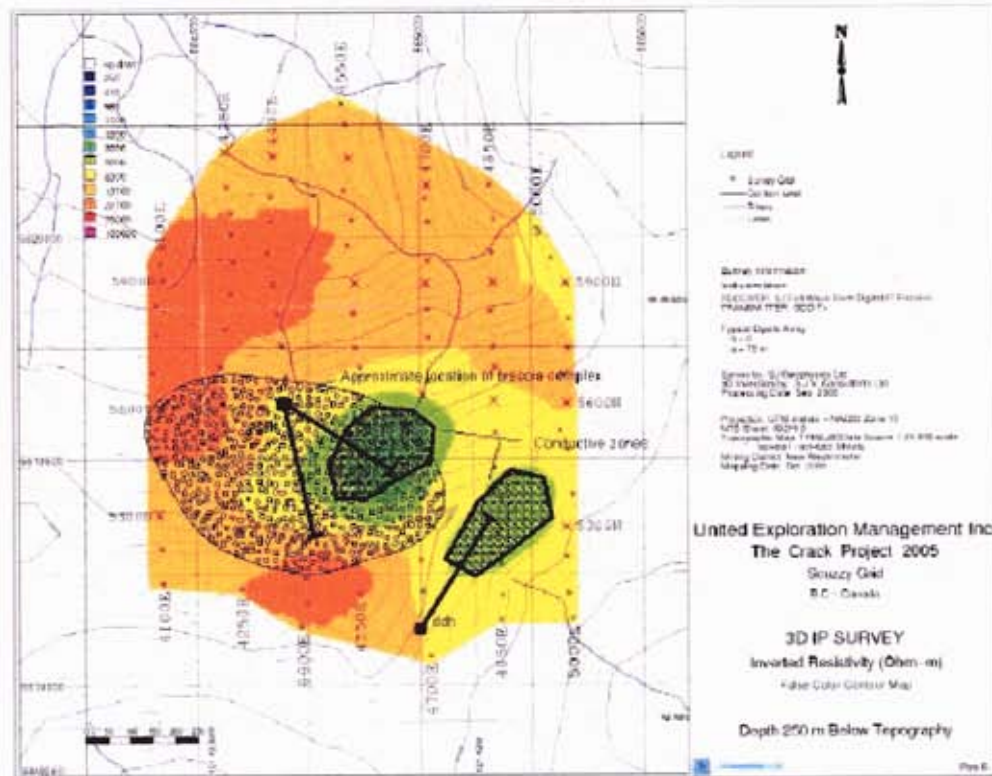


Figure 8. Scuzzy Grid - Inverted Resistivity - 250 metres depth

Alt Grid

No geological mapping was completed on this grid to correlate with the geophysical data. The survey did outline both shallow and deep chargeability targets in the central and northern portions of the grid. Most of the shallow chargeability responses do not extend below 50 metres depth and are believed to be influenced by terrain, possibly due to less overburden on the ridge. Numerous small targets are typical of near surface geological noise.

However, there are two areas with chargeability response that may be due to sulphide mineralization. These two zones are on the western and central portions of the grid and the source is believed to be within 20-25 metres of surface (Figure 9).

A deeper chargeability anomaly starts to appear on the "level plans" at a depth of 200 metres below surface on the northwest and north-central portions of the grid. The area of chargeability coincides with an area of low resistivity and is shown on Figures 10 and 11.

Note that all of the figures in this section of the report have been extracted from the SJ Geophysics report, which is included in full as Appendix 3. The figures include proposed drill holes selected on the strength of the geophysical data, as recommended on the SJ Geophysics report.

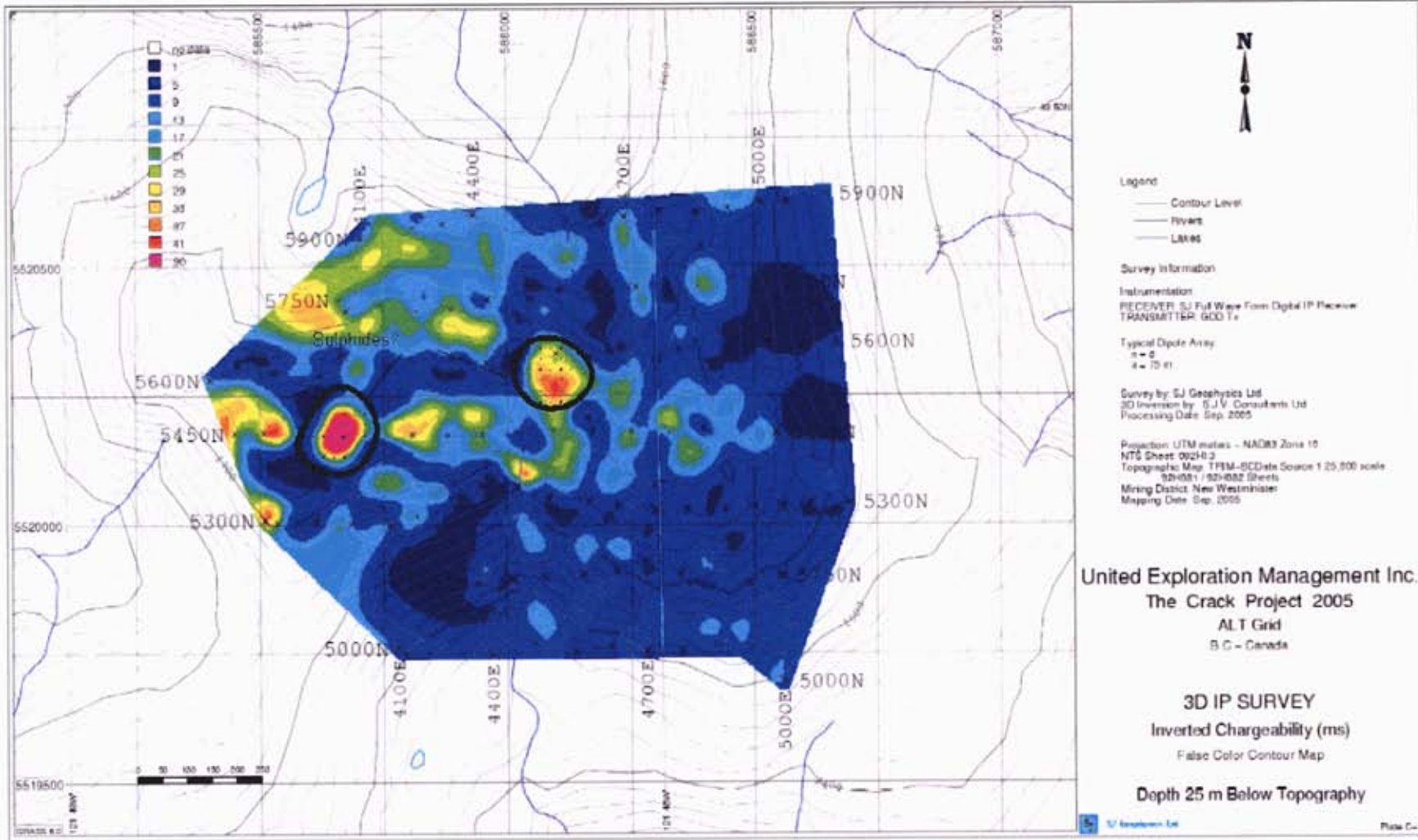


Figure 9. Alt Grid - Inverted Chargeability - 25 metres depth

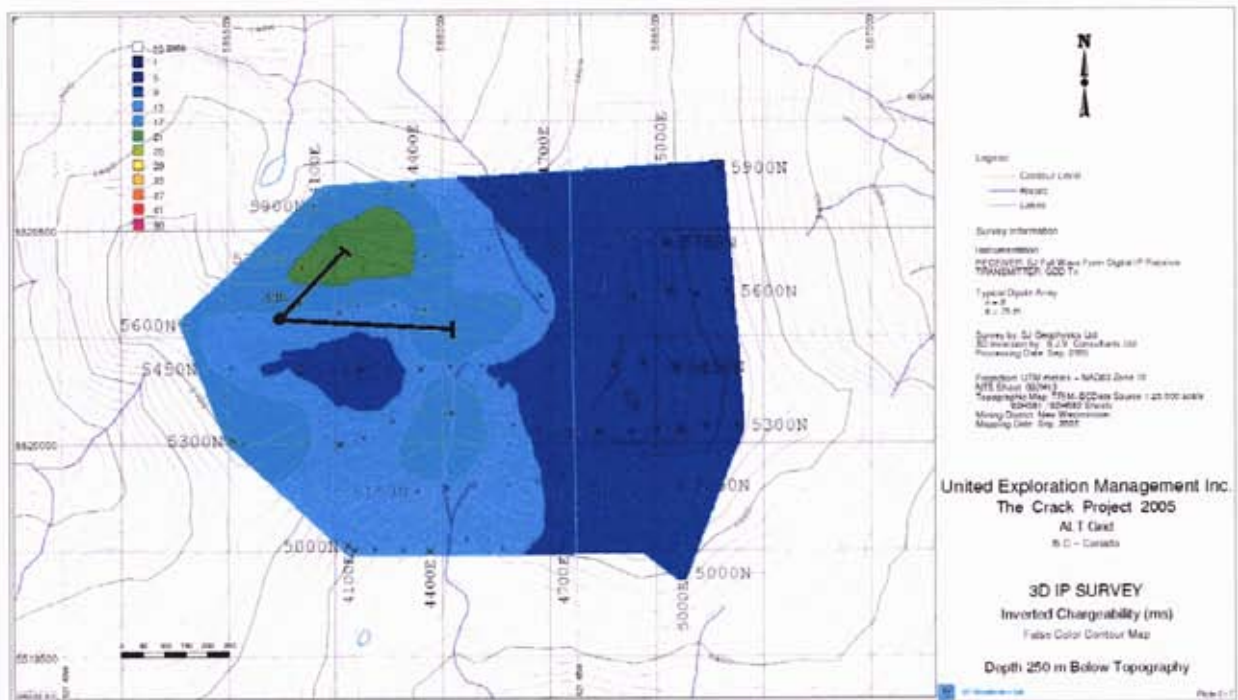


Figure 10. Alt Grid - Inverted Chargeability - 250 metres depth

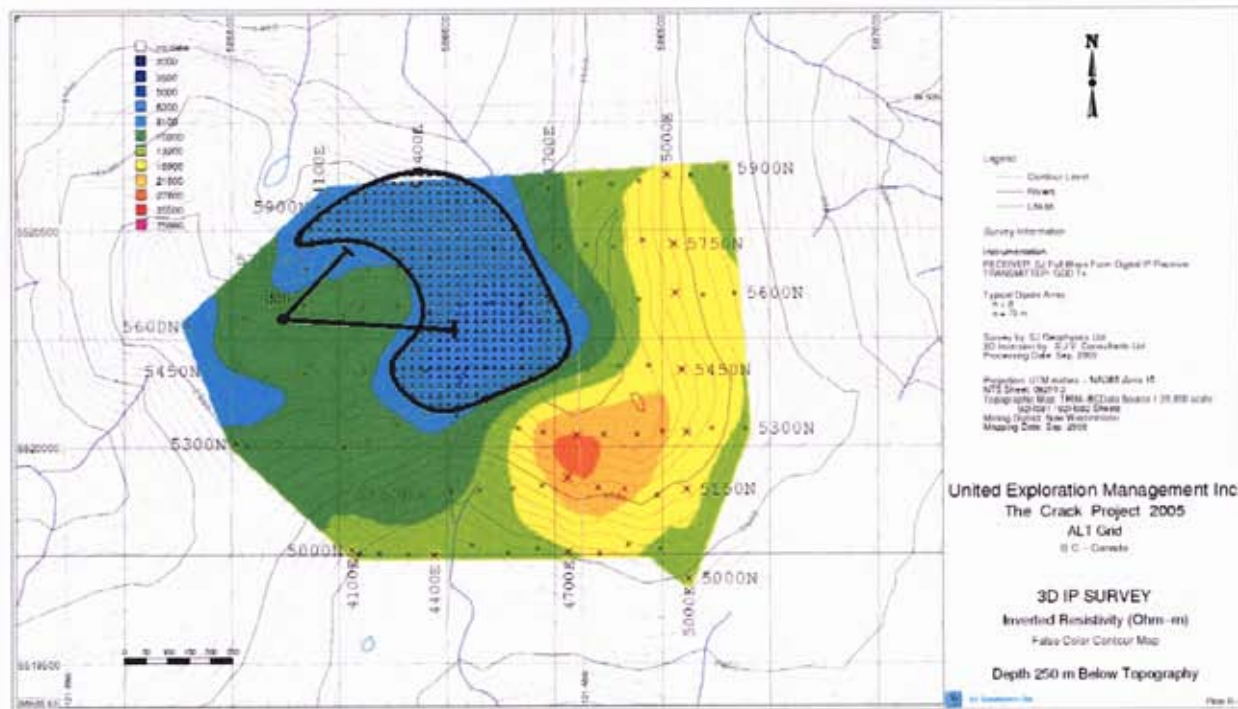


Figure 11. Alt Grid - Inverted Resistivity - 250 metres depth

8. Interpretation and Conclusions

Historical work indicates the Scuzzy property hosts a molybdenum-porphyry system. Rock sampling programs have outlined areas of anomalous molybdenum mineralization, with elevated silver and tungsten values. The system is believed to occur at depth. The mineralization on surface, while locally spectacular, is not of sufficient vein/fracture density to yield commercial grades.

The recent work by UEMI includes rock sampling and an IP survey over two grids, the Scuzzy and the Alt grids. On the Scuzzy grid 3D inversion modelling of the IP data revealed a broad chargeability anomaly extending to a depth of 250 metres and coincident with the breccia complex. At depth the southern flank of the breccia complex has the strongest chargeability anomalies.

Surveying of the Alt grid outlined both shallow and deep chargeability zones in the central and northern portions of the grid. Most shallow targets were dismissed as near surface geological noise except for two targets in the western and central portions of the grid. One deep target was noted at a depth of 200 metres below surface where there is a coincident high chargeability - low resistivity zone.

Present work has confirmed the existence of a porphyry molybdenum system on the Scuzzy Property. Ore grade mineralization is sporadic on surface and large tonnage is not likely to occur at or near surface but a deeper, larger molybdenum target exists and is worth pursuing. IP geophysics indicates possible, mineralized satellite bodies closer to surface that also need investigating. Porphyry molybdenum deposits often have shells of magnetite at high levels, above the ore shells, and show considerable variation in pyrite content.

The target size at present is smaller compared with other molybdenite properties in the same belt, which has some potentially mineable deposits (Gem, Salal Creek), however the property has not been drill tested so the grade and intensity of molybdenum mineralization at depth is unknown. Several surface assays are higher than those at the other showings.

The Scuzzy showing is mapped as a breccia complex within grandiorites of the Scuzzy Plateau that is cut by rhyolite and aplite dykes. Fracture controlled molybdenum mineralization was observed within the breccia complex. The zone of interest has associated rock chip sample geochemical anomalies; a central Mo anomaly with some moderately strong values in soil samples partly overlapping areas anomalous in silver and tungsten.

9. Recommendations

Since the target is reasonably well defined, further work should concentrate on defining grade of the material with diamond drilling, guided by further mapping and the IP survey.

Upon completion of road and drill pad construction, additional mapping, rock chip sampling and thin section analyses can be completed prior to initial drill testing on the Scuzzy showing, guided by the IP survey data. A program of 2,000 metres is recommended to test both shallow and deep IP targets with an emphasis on the deeper targets.

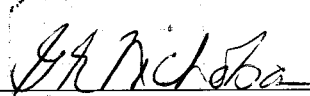
10. Statement of Qualifications

10.1 GEORGE NICHOLSON

I, GEORGE E. NICHOLSON, of 21910 - 61st Avenue, Langley, British Columbia hereby certify that:

1. I am a graduate of the University of British Columbia with a degree in Geology (B.Sc., 1986);
2. I have practiced my profession as a Geologist continuously since graduation;
3. I am a director of Nicholson and Associates Natural Resource Development Inc., and directed the exploration during 2004 while claim staking and the 2005 grid, geochemistry and geophysical surveys;
4. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia (No. 19796);
5. I am a Fellow of the Royal Geographic Society (No. 423161);
6. There are no material facts or material changes in the subject matter of this report that would mislead the reader;
7. I am a director of United Exploration Management Inc. guiding mineral project acquisition but I have no beneficial interest.
8. I have read National Policy Instrument 43-101 and Form 43-101 F1 and this technical report has been prepared in accordance with this policy and form; and,
9. I hereby grant my permission for United Exploration Management Inc. to use this Report for any corporate use normal to their business.

DATED at Vancouver, British Columbia this 20th day of April, 2006


George E. Nicholson, P.Ge., FRGS

10.2 WESLEY RAVEN

I, Wesley Raven, of 108-1720 West 12th Avenue, Vancouver, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1983) and hold a BSc. degree in geology.
2. I have been employed in my profession with various companies since 1983.
3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, and have been registered since 1992. I am also a Fellow of the Geological Association of Canada and have been a member since 1989.
4. I am co-responsible for preparation of all sections of this report utilizing data summarized in the References section of this report.
5. I have had no direct involvement with United Exploration Management Inc. or with Pacific Cascade Minerals Inc. on the Crack Moly Property.
6. I am not aware of any material fact or material change with respect to the subject matter of the report that is not reflected in the report, the omission to disclose which makes the assessment report misleading.
7. I am independent of United Exploration Management Inc. and Pacific Cascade Minerals Inc.
8. I consent to the use of this report by United Exploration Management Inc. and Pacific Cascade Minerals Inc. for any corporate use normal to their business.

Wesley Raven

Wesley Raven, P. Geo.

DATED at Vancouver, British Columbia, this 20th day of April, 2006



11. References

Harivel, C.,

1981: Geochemical Report, Scuzzy #1 & #2 Mineral Claims, for Territorial Gold Placers Ltd. and JMT Services Corp., November 27, 1981 (Assessment Report 9793).

Christie, J.S., and Richards, G.G.,

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Richards, G.G.,

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Sheldrake, R.,

2005: Data Processing and Interpretation Report, 3D Induced Polarization Geophysical Survey, Scuzzy Grid, Alt Grid, Crack Project, October 24, 2005.

Geological Survey of Canada. Maps: 737A, 12-1969, 41-1989. Open Files: 482. Papers: 69-47.

Appendix 1.

Rock Sample Descriptions

**Rock Samples
Crack Property
United Exploration Management**

Sample #	Description
WCRACK 1	qtz dio, py 1-2% diss, Mo 1%, mag. lim/ goeth. on all weathered surfaces
WCRACK 2	qtz dio, tr. cpy, py
WCRACK 3	qtz dio, tr. cpy, py
WCRACK 4	qtz dio, no on fractures and veinlets; tr. py
WCRACK 5	q.d. tr. py, Mo
WCRACK 6	q.d., py in minor fractures, weakly mag.
WCRACK 7	q.d., py in minor fractures, weakly mag., parallel fracture set, tr. diss py., tr. cpy in qtz stockwork
WCRACK 8	q.d., ½ qtz vn., 2% cpy, sericite envelopes on veins
WCRACK 9	q.d. gypsum/anhydrite altn, sericite, Mo diss. & blebby
WCRACK 10	felsic dyke, Mo in veinlets, up to 3%, 3 phase fracturing chalcedonic textures
WCRACK 11	q.m. 2% py blebby, cpy tr-1%, 2% mag.
WCRACK 12	qtz moly ? froth, sericite
WCRACK 13	q.d. lots of biotite, Mo on fractures tr-1% sericite
WCRACK 14	q.m. Mo on fracture planes; ser.
WCRACK 15	as per 14
WCRACK 16	q.d. diss cpy 1-2%, potassic altn, ser. 1% diss py. cpy w/carb?
WCRACK 17	q.d. lots of ser. Mo + cpy 1-2% assoc. w/ microfractures
WCRACK 18	q.d. lots of ser. Mo + cpy 1-2% assoc. w/ microfractures
WCRACK 19	qtz veinlet, msv py, Mo, 2-5%, sericite envelope
WCRACK 20	as per 18, blebby Mo. 2%, tr-1% cpy, py 2%
WCRACK 21	q.m. ser., py blebby 2%
WCRACK 22	q.d.
WCRACK 23	q.m. tr py
WCRACK 24	q.d. cut by qtz vn w/ 2 bands Mo? specularite? heavy; magnetic
WCRACK 25	q.d. extensively fractured, sericite, tr. py.

Sample #	Description
WCRACK 26	q.m. diss, blebby py in qtz vn. cpy in fracture filled veinlets
WCRACK 27	fractured felsic dyke w/ Mo in fractures, pale grn., conchoidal
WCRACK 28	as per 27
WCRACK 29	as per 27
WCRACK 30	q.d. tr-1% Mo in fractures, tr. py diss.
WCRACK 31	as per 30
WCRACK 32	as per 30
WCRACK 33	as per 30
WCRACK 34	as per 30
WCRACK 35	as per 30
WCRACK 36	as per 30
WCRACK 37	as per 30, contact w/ skarned hornfels chl. units; specularite
WCRACK 38	as per 30, qtz vns
WCRACK 39	same as 37
ECRACK 1	crystalline qtz vn in contact w/ q.m., tr py, Mo
ECRACK 2	felsic dyke, fractures, chalcedonic qtz veinlets
ECRACK 3	q.m. ser. on fractures, tr. py.
ECRACK 4	as per 2
ECRACK 5	as per 3
ECRACK 6	as per 3 brecciated
ECRACK 7	as per 3
ECRACK 8	as per 3
ECRACK 9	q.d. fractured, specularite + Mo in minor fractures
ECRACK 10	f.g. q.m. contact zone, sugary texture, py w/mag. tr cpy ± Mo veinlets
ECRACK 11	f.g. q.m. contact zone, sugary texture, py w/mag. tr cpy ± Mo veinlets
ECRACK 12	q.d. barren qtz veinlets stockwork
ECRACK 13	q.m. barren qtz veinlets, stockwork, minor brxx
ECRACK 14	as per q.d.
ECRACK 15	as per 12
ECRACK 16	as per 13

Sample #	Description
ECRACK 17	as per 2
ECRACK 18	as per 10
ECRACK 19	as per 10 grey banding in veining (Mo?)
ECRACK 20	q.d.
ECRACK 21	brxx, stockwork, xtal. qtz growth f.g. monz.
ECRACK 22	brxx, stockwork, xtal. qtz growth f.g. monz.
ECRACK 23	q.d. siliceous, brxx, qtz veining
ECRACK 24	q.d. siliceous, brxx, qtz veining
ECRACK 25	as per 2
ECRACK 26	q.m. brxx w/ stockwork
ECRACK 27	as per 2
ECRACK 28	q.m. tr py-2% diss
ECRACK 29	q.m. tr py-2% diss
ECRACK 30	q.m. brxx, 2-5% py, mang. on weathered surface, minor vugs
ECRACK 31	q.d. w/ qtz vn, calcite
ECRACK 32	q.m. fractured
ECRACK 33	q.d. brxx, sil., f.g. amorphous grey sulphide with silicification
ECRACK 34	q.m. brxx, extensive potassic alteration
ECRACK 35	q.m. brxx matte py on fracture sfc., xtal py, py ~3%
ECRACK 36	q.m., brxx, specularite on fractures
ECRACK 37	as per 2, minor mal./az.
ECRACK 38	q.m., sil. brxx
ECRACK 39	q.m., sil. brxx
ECRACK 40	q.m., sil. brxx
ECRACK 41	q.m.
ECRACK 42	as per 38
ECRACK 43	as per 38
ECRACK 44	as per 38
ECRACK 45	as per 38
ECRACK 46	as per 38

Sample #	Description
ECRACK 47	as per 38
ECRACK 48	as per 2, in contact w/q.m. minor mal/az
ECRACK 49	as per 2, in contact w/q.m. minor mal/az
FWC 1	q.m. tr-2% diss., py, tr. mag. FeOx, brxx py/Mo in stringers (all have FeOx on weathered sfcs)
FWC 2	q.m. tr-2% diss., py, tr. mag. FeOx, brxx py/Mo in stringers
FWC 3	q.m. tr-2% diss., py, tr. mag. py stringers + massive ± aspy
FWC 4	q.m. tr-2% diss., py, tr. mag. py stringers + massive ± aspy
FWC 5	q.m. high biotite, tr. py, minor brxx, non mag.
FWC 6	q.m.
FWC 7	q.m. w/ qtz vn., grey qtz, poss Mo
FWC 8	q.m., py 2% f.g.
FWC 9	q.m., fracture healed by qtz
FWC 10	frac. q.m. fractures filled w/grey qtz f.g. sx
FWC 11	q.m. brxx healed by qtz + ank/sid.
FWC 12	q.m. brxx healed by qtz + ank/sid.
FWC 13	q.m. brxx healed by qtz + ank/sid.
FWC 14	q.m. brxx healed by qtz + ank/sid.
FWC 15	brxx felsic dyke, amorphous, lt grey sx in sil. veinlets, parallel fractures
FWC 16	brxx felsic dyke, amorphous, lt grey sx in sil. veinlets, parallel fractures
FWC 17	as per 16
FWC 18	q.m., tr. py., lt grey sx., tr cpy
FWC 19	q.m. brxx, sil., tr py
FWC 20	q.m. minor brxx healed by qtz, tr. sx
FWC 21	q.m. minor brxx healed by qtz, tr. sx, lt brown weather
FWC 22	q.m. tr cpy, 2-5% py, f.g. grey sx lt brown weather
FWC 26	q.m. tr cpy, 2-5% py, f.g. grey sx lt brown weather
FWC 24	q.m. high density fractures sil healed w/ f.g. sx. ser. altn
FWC 25	q.m. high density fractures sil healed w/ f.g. sx. ser. altn
FWC 26	q.m. minor brxx, fractured + healed w/sil. + f.g. grey sx

Sample #	Description
FWC 27	q.m. minor brxx, fractured + healed w/sil. + f.g. grey sx
FWC 28	q.m. as per 26
FWC 29	q.d. w/ f.g. grey sx on fractures
FWC 30	q.m. f.g. grey sx on fractures
FWC 31	q.m. tr-2% py, tan weather
FWC 32	q.m. bleached, dk grey weathering
FWC 33	q.m. tan weather
FWC 34	as per 30
FWC 35	q.m. lt brown weather
FWC 36	as per 30
FWC 37	as per 30
FWC 38	qtz vn in monz. w/ f.g. grey sx, blebby, specularite
FWC 39	qtz vn in monz. w/ f.g. grey sx, blebby, specularite
FWC 40	qtz vn in monz. w/ f.g. grey sx, blebby, specularite
FWC 41	q.m. vn in monz. w/ f.g. grey sx, blebby, specularite
FWC 42	q.m. vn in monz. w/ f.g. grey sx, blebby, specularite
FWC 43	q.m. vn in monz. w/ f.g. grey sx, blebby, specularite, brxx
FWC 44	q.m. vn in monz. w/ f.g. grey sx, blebby, specularite, brxx

Appendix 2.

Assay Certificates



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CERTIFICATE VA05073284

Project:

P.O. No.:

This report is for 132 Rock samples submitted to our lab in Vancouver, BC, Canada on 30-AUG-2005.

The following have access to data associated with this certificate:

BOB KRAUSE

GEORGE NICHOLSON

WESLEY RAVEN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Puiverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Mo-AA46	Ore grade Mo - aqua regia/AA	AAS
ME-XRF10	Fusion XRF - Ore Grade	XRF
OA-GRA06	LOI for ME-XRF06	WST-SIM
ME-ICP41a	High Grade Aqua Regia ICP-AES	ICP-AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 



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Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
		0.02	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50	5
ECRACK 1		0.64	2	0.83	110	130	<5	<10	<0.05	<5	<5	162	329	2.95	<50	<5
ECRACK 2		2.02	2	0.55	<10	90	<5	<10	<0.05	<5	<5	12	380	1.07	<50	<5
ECRACK 3		1.08	<1	0.30	240	<50	<5	<10	<0.05	<5	<5	166	69	0.91	<50	<5
ECRACK 4		1.24	2	0.67	<10	120	<5	<10	<0.05	<5	<5	6	251	2.36	<50	<5
ECRACK 5		0.22	<1	1.15	190	150	<5	<10	0.05	8	<5	56	525	6.00	<50	<5
ECRACK 6		0.80	<1	0.95	<10	170	<5	<10	0.14	<5	<5	6	94	2.09	<50	<5
ECRACK 7		0.64	<1	1.54	<10	120	<5	<10	0.54	<5	<5	118	31	2.18	<50	<5
ECRACK 8		0.26	7	1.50	<10	310	<5	10	0.05	<5	<5	<5	479	3.07	<50	<5
ECRACK 9		1.74	<1	1.08	<10	220	<5	<10	0.20	<5	<5	116	88	1.94	<50	<5
ECRACK 10		0.58	<1	0.35	80	<50	<5	<10	<0.05	<5	<5	10	20	0.69	<50	<5
ECRACK 11		1.22	<1	0.28	60	<50	<5	<10	<0.05	<5	<5	166	25	0.72	<50	<5
ECRACK 12		2.94	<1	1.07	<10	390	<5	<10	0.19	<5	<5	10	10	1.91	<50	<5
ECRACK 13		0.64	<1	1.04	<10	250	<5	<10	0.22	<5	<5	115	43	1.73	<50	<5
ECRACK 14		1.16	<1	1.38	<10	70	<5	<10	0.28	<5	<5	8	90	2.58	<50	<5
ECRACK 15		1.08	<1	1.46	<10	80	<5	<10	0.23	<5	<5	78	97	2.67	<50	<5
ECRACK 16		0.70	<1	1.09	<10	130	<5	<10	0.22	<5	<5	8	102	1.89	<50	<5
ECRACK 17		2.56	1	1.20	<10	250	<5	10	0.30	<5	<5	94	416	1.77	<50	<5
ECRACK 18		1.24	<1	0.31	30	<50	<5	<10	<0.05	<5	<5	9	27	0.68	<50	<5
ECRACK 19		1.28	<1	0.54	<10	110	<5	<10	<0.05	<5	<5	101	22	0.62	<50	<5
ECRACK 20		1.92	<1	1.25	<10	420	<5	<10	0.27	<5	<5	17	34	2.26	<50	<5
ECRACK 21		1.12	<1	0.95	<10	190	<5	<10	0.10	<5	<5	132	123	2.04	<50	<5
ECRACK 22		1.24	1	1.22	<10	330	<5	<10	<0.05	<5	<5	10	48	2.98	<50	<5
ECRACK 23		0.82	1	1.06	<10	260	<5	<10	0.16	<5	<5	142	42	1.91	<50	<5
ECRACK 24		0.56	<1	1.20	<10	370	<5	<10	0.25	<5	<5	12	32	2.07	<50	<5
ECRACK 25		1.84	<1	1.46	60	250	<5	<10	<0.05	<5	<5	90	116	1.86	<50	<5
ECRACK 26		2.08	<1	1.23	10	160	<5	<10	0.06	<5	<5	12	115	2.20	<50	<5
ECRACK 27		0.86	<1	0.52	<10	110	<5	<10	<0.05	<5	<5	132	12	0.59	<50	<5
ECRACK 28		0.28	1	1.38	30	200	<5	<10	0.11	<5	<5	7	209	2.40	<50	<5
ECRACK 29		0.20	<1	1.89	60	230	<5	<10	0.05	<5	<5	64	368	5.90	<50	<5
ECRACK 30		3.24	1	1.58	<10	360	<5	<10	0.05	<5	<5	8	69	3.74	<50	<5
ECRACK 31		3.90	<1	1.20	10	360	<5	<10	0.29	<5	<5	106	23	1.97	<50	<5
ECRACK 32		2.12	1	1.46	<10	380	<5	<10	<0.05	<5	<5	8	35	3.20	<50	<5
ECRACK 33		2.08	<1	1.61	10	80	<5	<10	0.22	<5	<5	94	63	2.87	<50	<5
ECRACK 34		0.52	2	1.26	10	260	<5	<10	0.08	<5	<5	9	183	1.84	<50	<5
ECRACK 35		0.42	<1	1.61	70	220	<5	<10	<0.05	5	<5	70	470	5.67	<50	<5
ECRACK 36		0.68	<1	1.38	<10	70	<5	<10	0.20	<5	<5	9	96	2.45	<50	<5
ECRACK 37		0.48	1	1.06	<10	230	<5	10	0.20	<5	<5	92	858	1.59	<50	<5
ECRACK 38		0.54	<1	1.25	10	60	<5	<10	0.19	<5	<5	8	109	2.66	<50	<5
ECRACK 39		0.46	<1	1.02	<10	220	<5	<10	0.25	<5	<5	97	56	1.76	<50	<5
ECRACK 40		0.42	<1	1.04	<10	180	<5	<10	0.27	<5	<5	10	75	1.76	<50	<5



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CERTIFICATE OF ANALYSIS VA05073284

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm
ECRACK 1		0.40	<50	0.05	280	23	<0.05	47	360	40	0.05	10	<5	9	<0.05	<50
ECRACK 2		0.29	<50	<0.05	90	104	<0.05	6	110	20	<0.05	<10	<5	6	<0.05	<50
ECRACK 3		0.18	<50	<0.05	40	11	<0.05	5	60	20	<0.05	10	<5	<5	<0.05	<50
ECRACK 4		0.41	<50	<0.05	60	168	<0.05	<5	230	20	0.08	<10	<5	9	<0.05	<50
ECRACK 5		0.56	<50	0.06	80	228	<0.05	7	540	10	1.12	10	<5	<5	<0.05	<50
ECRACK 6		0.28	<50	0.24	330	21	0.08	<5	320	20	<0.05	<10	<5	21	<0.05	<50
ECRACK 7		0.34	<50	0.39	350	7	0.16	8	370	10	<0.05	<10	<5	46	0.14	<50
ECRACK 8		0.79	<50	0.13	110	41	0.05	<5	440	10	0.05	<10	<5	20	<0.05	<50
ECRACK 9		0.40	<50	0.31	280	55	0.13	<5	460	10	0.07	<10	<5	29	0.13	<50
ECRACK 10		0.23	<50	<0.05	40	16	<0.05	7	90	10	<0.05	<10	<5	<5	<0.05	<50
ECRACK 11		0.18	<50	<0.05	40	14	<0.05	8	100	10	<0.05	<10	<5	<5	<0.05	<50
ECRACK 12		0.46	<50	0.39	250	12	0.14	<5	480	<10	<0.05	<10	<5	27	0.14	<50
ECRACK 13		0.34	<50	0.27	330	12	0.10	<5	400	10	<0.05	<10	<5	28	<0.05	<50
ECRACK 14		0.51	<50	0.42	360	134	0.13	<5	500	10	0.10	<10	<5	27	0.14	<50
ECRACK 15		0.58	<50	0.43	330	170	0.12	5	530	10	0.06	<10	<5	26	0.14	<50
ECRACK 16		0.25	<50	0.31	300	58	0.13	5	490	<10	<0.05	10	<5	28	0.13	<50
ECRACK 17		0.42	<50	0.22	310	18	0.10	5	280	10	<0.05	<10	<5	34	<0.05	<50
ECRACK 18		0.20	<50	<0.05	50	9	<0.05	<5	70	10	<0.05	<10	<5	<5	<0.05	<50
ECRACK 19		0.28	<50	<0.05	60	361	0.06	5	60	10	<0.05	<10	<5	9	<0.05	<50
ECRACK 20		0.50	<50	0.48	380	18	0.15	7	560	10	<0.05	<10	<5	33	0.22	<50
ECRACK 21		0.34	<50	0.24	210	43	0.10	<5	460	10	<0.05	<10	<5	21	<0.05	<50
ECRACK 22		0.73	<50	0.13	200	106	<0.05	5	520	<10	0.16	10	<5	9	0.06	<50
ECRACK 23		0.36	<50	0.29	230	8	0.12	7	400	10	<0.05	<10	<5	24	0.07	<50
ECRACK 24		0.45	<50	0.43	350	15	0.15	<5	430	<10	<0.05	10	<5	32	0.19	<50
ECRACK 25		0.85	<50	0.05	80	115	<0.05	6	250	10	<0.05	10	<5	6	<0.05	<50
ECRACK 26		0.57	<50	0.11	190	41	0.05	<5	320	10	0.05	10	<5	9	<0.05	<50
ECRACK 27		0.29	<50	<0.05	50	225	0.06	<5	<50	10	<0.05	<10	<5	8	<0.05	<50
ECRACK 28		0.47	<50	0.13	200	21	0.10	<5	450	<10	<0.05	<10	<5	21	<0.05	<50
ECRACK 29		0.86	<50	0.06	130	152	<0.05	<5	540	<10	0.87	<10	<5	<5	<0.05	<50
ECRACK 30		0.86	<50	0.17	250	77	<0.05	<5	530	<10	0.16	<10	<5	11	0.07	<50
ECRACK 31		0.43	<50	0.42	310	9	0.15	<5	430	10	<0.05	<10	<5	31	0.17	<50
ECRACK 32		0.82	<50	0.13	200	120	<0.05	<5	480	10	0.10	<10	<5	8	0.06	<50
ECRACK 33		0.70	<50	0.45	330	154	0.11	<5	530	<10	<0.05	<10	<5	21	0.15	<50
ECRACK 34		0.55	<50	0.23	170	80	0.09	10	520	10	0.06	<10	<5	20	<0.05	<50
ECRACK 35		0.77	<50	0.06	90	169	<0.05	<5	480	10	1.48	<10	<5	<5	<0.05	<50
ECRACK 36		0.48	<50	0.39	350	293	0.13	5	480	10	0.09	<10	<5	24	0.11	<50
ECRACK 37		0.42	<50	0.17	210	21	0.10	47	240	30	0.05	<10	<5	26	<0.05	<50
ECRACK 38		0.45	<50	0.39	360	170	0.12	11	490	10	0.07	10	<5	23	0.11	<50
ECRACK 39		0.32	<50	0.35	290	17	0.15	<5	400	10	0.06	<10	<5	29	0.13	<50
ECRACK 40		0.28	<50	0.34	290	18	0.15	6	380	10	0.07	<10	<5	28	0.13	<50



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Sample Description	Method	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	Cu-AA46	Mo-AA46	ME-XRF10
	Analyte	U	V	W	Zn	Cu	Mo	W
	Units LOR	ppm	ppm	ppm	ppm	%	%	%
		50	5	50	10	0.01	0.001	0.01
ECRACK 1		<50	6	<50	110			
ECRACK 2		<50	<5	<50	50			
ECRACK 3		<50	<5	<50	10			
ECRACK 4		<50	<5	<50	10			
ECRACK 5		<50	<5	<50	630	0.06		
ECRACK 6		<50	12	<50	60			
ECRACK 7		<50	21	<50	180			
ECRACK 8		<50	9	<50	60			
ECRACK 9		<50	19	<50	30			
ECRACK 10		<50	<5	<50	<10			
ECRACK 11		<50	<5	<50	<10			
ECRACK 12		<50	23	<50	50			
ECRACK 13		<50	15	<50	60			
ECRACK 14		<50	22	<50	40			
ECRACK 15		<50	21	<50	30			
ECRACK 16		<50	18	<50	20			
ECRACK 17		<50	11	<50	60			
ECRACK 18		<50	<5	<50	10			
ECRACK 19		<50	<5	<50	30			
ECRACK 20		<50	31	<50	60			
ECRACK 21		<50	13	<50	20			
ECRACK 22		<50	11	<50	30			
ECRACK 23		<50	18	<50	40			
ECRACK 24		<50	27	<50	50			
ECRACK 25		<50	6	<50	20			
ECRACK 26		<50	7	<50	40			
ECRACK 27		<50	<5	<50	20			
ECRACK 28		<50	11	<50	40			
ECRACK 29		<50	6	<50	450			
ECRACK 30		<50	13	<50	30			
ECRACK 31		<50	26	<50	50			
ECRACK 32		<50	11	<50	20			
ECRACK 33		<50	22	<50	40			
ECRACK 34		<50	16	<50	20			
ECRACK 35		<50	6	<50	380			
ECRACK 36		<50	18	<50	30			
ECRACK 37		<50	10	<50	80	0.08		
ECRACK 38		<50	20	<50	40			
ECRACK 39		<50	19	<50	30			
ECRACK 40		<50	19	<50	20			



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Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-ICP41a Ag ppm	ME-ICP41a Al %	ME-ICP41a As ppm	ME-ICP41a Ba ppm	ME-ICP41a Be ppm	ME-ICP41a Bi ppm	ME-ICP41a Ca %	ME-ICP41a Cd ppm	ME-ICP41a Co ppm	ME-ICP41a Cr ppm	ME-ICP41a Cu ppm	ME-ICP41a Fe %	ME-ICP41a Ga ppm	ME-ICP41a Hg ppm
Sample Description	0.02	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50	5
ECRACK 41	0.40	<1	0.96	<10	260	<5	<10	0.24	<5	<5	104	44	1.73	<50	<5
ECRACK 42	2.08	<1	1.38	<10	140	<5	<10	0.40	<5	<5	11	52	2.26	<50	<5
ECRACK 43	2.98	<1	1.26	<10	170	<5	<10	0.38	<5	<5	84	24	2.00	<50	<5
ECRACK 44	1.38	<1	1.48	<10	80	<5	<10	0.28	<5	<5	9	38	2.49	<50	<5
ECRACK 45	1.34	<1	1.52	<10	90	<5	<10	0.31	<5	<5	98	32	2.57	<50	<5
ECRACK 46	1.26	<1	1.30	<10	80	<5	<10	0.25	<5	<5	9	20	2.19	<50	<5
ECRACK 47	1.24	<1	1.20	10	200	<5	<10	0.37	<5	<5	85	154	1.65	<50	<5
ECRACK 48	1.28	1	1.10	<10	240	<5	<10	0.25	<5	<5	7	810	1.44	<50	<5
ECRACK 49	0.76	<1	1.01	10	230	<5	10	0.15	<5	<5	92	424	1.03	<50	<5
WCRACK 1	0.94	<1	1.15	<10	290	<5	<10	0.22	<5	<5	9	157	2.27	<50	<5
WCRACK 2	1.30	<1	0.97	<10	170	<5	<10	0.17	10	<5	134	205	1.91	<50	<5
WCRACK 3	0.30	1	1.08	<10	180	<5	<10	0.33	<5	<5	141	215	2.04	<50	<5
WCRACK 4	2.26	<1	0.97	<10	260	<5	<10	0.33	<5	<5	15	90	1.65	<50	<5
WCRACK 5	0.16	6	1.44	<10	110	<5	<10	0.10	6	<5	131	2940	5.17	<50	<5
WCRACK 6	0.74	<1	1.04	<10	90	<5	<10	0.44	<5	<5	16	65	1.68	<50	<5
WCRACK 7	0.68	1	1.24	10	160	<5	<10	0.10	<5	<5	223	463	1.70	<50	<5
WCRACK 8	0.22	8	0.89	1300	240	<5	250	0.13	<5	<5	<5	911	2.22	<50	<5
WCRACK 9	0.38	1	1.45	70	220	<5	<10	0.10	9	<5	194	170	1.96	<50	<5
WCRACK 10	1.18	<1	0.41	30	<50	<5	<10	<0.05	<5	<5	13	110	0.56	<50	<5
WCRACK 11	0.36	3	1.82	10	110	<5	<10	0.13	<5	6	120	1745	5.91	<50	<5
WCRACK 12	0.06	2	0.73	20	190	<5	<10	<0.05	<5	<5	<5	240	1.05	<50	<5
WCRACK 13	0.80	<1	1.35	<10	370	<5	<10	0.43	<5	<5	75	33	2.20	<50	<5
WCRACK 14	0.16	<1	1.12	10	310	<5	10	0.30	<5	<5	9	58	1.65	<50	<5
WCRACK 15	1.04	<1	0.88	<10	230	<5	10	0.31	<5	<5	122	52	1.36	<50	<5
WCRACK 16	0.24	1	2.55	<10	300	<5	<10	0.09	<5	<5	5	4240	5.21	<50	<5
WCRACK 17	0.78	<1	1.07	<10	260	<5	<10	0.23	5	<5	138	225	1.75	<50	<5
WCRACK 18	0.84	<1	1.01	<10	200	<5	10	0.21	8	<5	9	414	1.60	<50	<5
WCRACK 19	0.12	<1	0.77	30	200	<5	10	<0.05	<5	<5	99	75	1.19	<50	<5
WCRACK 20	1.20	<1	1.04	<10	240	<5	<10	0.39	<5	<5	17	74	1.69	<50	<5
WCRACK 21	0.60	<1	0.73	<10	150	<5	<10	0.49	<5	<5	63	110	1.45	<50	<5
WCRACK 22	0.30	<1	1.10	<10	300	<5	<10	0.39	<5	<5	14	14	1.66	<50	<5
WCRACK 23	0.94	<1	1.32	<10	150	<5	<10	0.84	6	5	130	169	2.00	<50	<5
WCRACK 24	2.06	2	0.86	<10	80	<5	<10	0.10	<5	5	16	1220	2.16	<50	<5
WCRACK 25	1.02	2	1.35	90	150	<5	<10	0.14	6	5	139	197	2.72	<50	<5
WCRACK 26	0.26	<1	0.99	<10	100	<5	10	0.73	7	<5	11	132	1.71	<50	<5
WCRACK 27	1.08	<1	0.39	10	<50	<5	10	<0.05	<5	<5	109	84	0.81	<50	<5
WCRACK 28	1.60	<1	0.37	<10	<50	<5	<10	<0.05	<5	<5	17	54	0.63	<50	<5
WCRACK 29	1.84	<1	0.43	10	<50	<5	10	<0.05	<5	<5	86	88	0.63	<50	<5
WCRACK 30	1.80	<1	0.90	<10	250	<5	90	0.36	<5	<5	19	50	1.53	<50	<5
WCRACK 31	0.60	<1	1.28	<10	100	<5	<10	0.40	<5	<5	118	59	1.66	<50	<5



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CERTIFICATE OF ANALYSIS VA05073284

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm
		0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	0.05	50
ECRACK 41		0.33	<50	0.36	300	9	0.15	<5	410	10	0.05	<10	<5	29	0.14	<50
ECRACK 42		0.33	<50	0.38	380	10	0.16	6	420	10	0.06	<10	<5	39	0.12	<50
ECRACK 43		0.35	<50	0.37	320	11	0.15	<5	410	10	<0.05	<10	<5	38	0.13	<50
ECRACK 44		0.61	<50	0.42	340	94	0.14	<5	470	20	<0.05	<10	<5	27	0.15	<50
ECRACK 45		0.65	<50	0.42	350	83	0.15	<5	420	10	<0.05	<10	<5	30	0.15	<50
ECRACK 46		0.52	<50	0.39	360	83	0.14	6	390	10	<0.05	<10	<5	27	0.14	<50
ECRACK 47		0.40	<50	0.26	270	7	0.13	<5	320	20	<0.05	<10	<5	41	0.05	<50
ECRACK 48		0.44	<50	0.16	220	12	0.09	<5	230	10	0.05	<10	<5	28	<0.05	<50
ECRACK 49		0.43	<50	0.10	170	16	0.08	<5	160	10	<0.05	<10	<5	21	<0.05	<50
WCRACK 1		0.43	<50	0.43	310	24	0.12	<5	480	10	0.27	<10	<5	27	0.12	<50
WCRACK 2		0.37	<50	0.24	210	25	0.08	7	430	10	0.48	10	<5	18	<0.05	<50
WCRACK 3		0.32	<50	0.44	400	31	0.15	<5	620	20	0.31	<10	<5	31	0.12	<50
WCRACK 4		0.34	<50	0.39	320	795	0.16	14	430	10	0.28	<10	<5	37	0.14	<50
WCRACK 5		0.81	<50	0.10	100	19	<0.05	<5	460	10	3.18	<10	<5	<5	<0.05	<50
WCRACK 6		0.20	<50	0.40	330	28	0.16	5	450	10	0.27	<10	<5	38	0.12	<50
WCRACK 7		0.58	<50	0.23	210	97	0.05	7	430	10	0.54	<10	<5	10	0.05	<50
WCRACK 8		0.41	<50	0.09	130	25	0.05	<5	390	120	0.53	30	<5	9	<0.05	<50
WCRACK 9		0.58	<50	0.14	60	23	0.07	<5	540	10	0.32	<10	<5	14	<0.05	<50
WCRACK 10		0.24	<50	<0.05	<30	120	0.06	<5	<50	20	0.15	<10	<5	5	<0.05	<50
WCRACK 11		0.85	<50	0.32	310	50	<0.05	9	580	10	2.97	<10	<5	<5	<0.05	<50
WCRACK 12		0.41	<50	<0.05	80	32	<0.05	<5	70	10	0.54	<10	<5	12	<0.05	<50
WCRACK 13		0.67	<50	0.53	300	51	0.20	8	580	10	0.11	10	<5	48	0.17	<50
WCRACK 14		0.37	<50	0.39	370	34	0.22	<5	430	10	0.16	<10	<5	46	0.14	<50
WCRACK 15		0.29	<50	0.35	290	15	0.15	6	340	10	0.15	<10	<5	30	0.13	<50
WCRACK 16		1.44	<50	0.49	220	52	<0.05	<5	530	10	1.40	<10	<5	5	0.18	<50
WCRACK 17		0.44	<50	0.34	290	128	0.12	9	410	10	0.38	<10	<5	23	0.12	<50
WCRACK 18		0.41	<50	0.29	260	114	0.09	<5	340	10	0.50	<10	<5	18	0.10	<50
WCRACK 19		0.47	<50	<0.05	<30	62	<0.05	<5	<50	10	0.43	<10	<5	<5	<0.05	<50
WCRACK 20		0.35	<50	0.40	350	16	0.16	<5	460	10	0.27	<10	<5	35	0.13	<50
WCRACK 21		0.25	<50	0.31	270	99	0.06	<5	380	10	0.32	<10	<5	21	0.06	<50
WCRACK 22		0.36	<50	0.38	280	24	0.19	7	420	10	0.06	<10	<5	44	0.12	<50
WCRACK 23		0.43	<50	0.35	350	12	0.12	<5	410	10	0.50	<10	<5	51	<0.05	<50
WCRACK 24		0.44	<50	0.20	250	229	<0.05	62	310	50	0.75	<10	<5	9	0.06	<50
WCRACK 25		0.30	<50	0.26	120	53	0.08	13	500	10	0.23	10	<5	18	<0.05	<50
WCRACK 26		0.30	<50	0.33	350	14	0.09	<5	430	20	0.40	<10	<5	43	<0.05	<50
WCRACK 27		0.25	<50	<0.05	<30	1185	<0.05	<5	60	20	0.15	<10	<5	<5	<0.05	<50
WCRACK 28		0.23	<50	<0.05	<30	3070	<0.05	<5	60	10	0.23	10	<5	5	<0.05	<50
WCRACK 29		0.27	<50	<0.05	<30	518	0.07	5	50	10	0.15	<10	<5	7	<0.05	<50
WCRACK 30		0.33	<50	0.36	320	152	0.14	<5	390	10	0.21	<10	<5	32	0.11	<50
WCRACK 31		0.40	<50	0.37	350	28	0.12	<5	410	10	0.10	<10	<5	27	0.13	<50



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Sample Description	Method	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	Cu-AA46	Mo-AA46	ME-XRF10
	Analyte	U	V	W	Zn	Cu	Mo	W
	Units	ppm	ppm	ppm	ppm	%	%	%
LOR	50	5	50	10	0.01	0.001	0.01	
ECRACK 41		<50	21	<50	30			
ECRACK 42		<50	19	<50	140			
ECRACK 43		<50	21	<50	140			
ECRACK 44		<50	23	<50	40			
ECRACK 45		<50	24	<50	40			
ECRACK 46		<50	22	<50	40			
ECRACK 47		<50	15	<50	50			
ECRACK 48		<50	10	<50	60	0.09		
ECRACK 49		<50	6	<50	60			
WCRACK 1		<50	28	<50	50			
WCRACK 2		<50	13	<50	270			
WCRACK 3		<50	27	<50	40			
WCRACK 4		<50	25	50	80		0.086	
WCRACK 5		<50	8	200	140	0.34		
WCRACK 6		<50	21	<50	40			
WCRACK 7		<50	14	<50	20			
WCRACK 8		<50	8	100	110	0.10		
WCRACK 9		<50	9	<50	240			
WCRACK 10		<50	<5	<50	40			
WCRACK 11		<50	15	90	100	0.20		
WCRACK 12		<50	8	<50	10			
WCRACK 13		<50	33	<50	50			
WCRACK 14		<50	25	<50	40			
WCRACK 15		<50	21	<50	40			
WCRACK 16		<50	23	80	30	0.46		
WCRACK 17		<50	21	<50	150			
WCRACK 18		<50	17	160	230			
WCRACK 19		<50	8	<50	10			
WCRACK 20		<50	25	<50	50			
WCRACK 21		<50	19	<50	40			
WCRACK 22		<50	27	<50	50			
WCRACK 23		<50	17	<50	180			
WCRACK 24		<50	12	<50	100	0.13		
WCRACK 25		<50	10	<50	120			
WCRACK 26		<50	15	130	180			
WCRACK 27		<50	<5	<50	10		0.128	
WCRACK 28		<50	<5	<50	20		0.329	
WCRACK 29		<50	<5	<50	30		0.055	
WCRACK 30		<50	23	<50	40			
WCRACK 31		<50	21	<50	120			



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Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
		0.02	1	0.05	10	50	5	10	0.05	5	5	5	0.05	50	5	
WCRACK 32		1.04	<1	1.11	<10	180	<5	<10	0.34	<5	<5	16	48	1.70	<50	<5
WCRACK 33		1.74	1	0.81	<10	110	<5	310	0.81	<5	<5	162	381	1.46	<50	<5
WCRACK 34		1.80	<1	1.04	<10	240	<5	<10	0.31	<5	<5	15	152	1.90	<50	7
WCRACK 35		1.46	<1	1.06	<10	260	<5	<10	0.29	<5	<5	122	99	1.84	<50	5
WCRACK 36		0.42	<1	1.28	<10	220	<5	<10	0.78	<5	<5	8	207	2.47	<50	<5
WCRACK 37		1.04	<1	1.26	<10	180	<5	<10	1.06	6	<5	55	206	2.50	<50	<5
WCRACK 38		1.04	<1	1.26	<10	190	<5	30	0.95	<5	<5	11	199	2.43	<50	<5
WCRACK 39		1.12	<1	1.28	10	180	<5	<10	0.82	<5	7	70	153	2.25	<50	9
FWC 1		0.48	<1	1.02	10	180	<5	<10	0.30	<5	<5	10	142	1.82	<50	<5
FWC 2		0.46	<1	1.10	<10	270	<5	<10	0.27	<5	<5	131	57	1.75	<50	5
FWC 3		1.08	<1	0.99	<10	160	<5	<10	0.27	21	<5	13	374	2.11	<50	<5
FWC 4		0.44	<1	1.04	<10	170	<5	<10	0.34	<5	6	131	68	1.73	<50	<5
FWC 5		0.30	<1	1.04	<10	270	<5	<10	0.38	<5	<5	13	111	1.77	<50	8
FWC 6		0.60	1	0.98	<10	160	<5	<10	0.35	<5	<5	144	262	1.99	<50	7
FWC 7		0.78	<1	0.71	3190	200	<5	10	1.94	<5	<5	10	25	1.61	<50	6
FWC 8		0.88	<1	0.99	<10	230	<5	<10	0.27	<5	<5	146	41	1.61	<50	<5
FWC 9		0.92	<1	1.06	<10	120	<5	20	0.44	<5	<5	16	91	1.70	<50	6
FWC 10		1.28	<1	1.05	<10	260	<5	<10	0.37	<5	<5	127	37	1.71	<50	5
FWC 11		0.96	<1	1.02	<10	280	<5	<10	0.26	<5	<5	14	16	1.63	<50	<5
FWC 12		1.52	<1	1.08	<10	260	<5	<10	0.36	<5	<5	129	42	1.70	<50	<5
FWC 13		2.04	<1	0.93	<10	130	<5	<10	0.32	<5	<5	20	192	1.99	<50	<5
FWC 14		0.54	<1	0.99	<10	140	<5	<10	0.39	<5	<5	106	189	2.07	<50	<5
FWC 15		0.84	<1	0.43	10	<50	<5	10	<0.05	<5	<5	19	18	0.90	<50	<5
FWC 16		1.08	<1	0.43	10	<50	<5	<10	0.05	<5	<5	104	39	0.72	<50	<5
FWC 17		0.98	<1	0.45	<10	<50	<5	<10	0.06	<5	<5	17	60	0.76	<50	<5
FWC 18		0.44	1	1.30	30	190	<5	<10	0.28	45	<5	100	430	1.80	<50	<5
FWC 19		0.74	<1	0.94	<10	190	<5	<10	0.27	<5	<5	16	48	1.84	<50	<5
FWC 20		1.46	<1	1.04	10	180	<5	<10	0.38	<5	<5	140	68	1.93	<50	<5
FWC 21		0.56	<1	0.79	<10	110	<5	<10	0.31	<5	<5	19	220	1.88	<50	<5
FWC 22		1.12	<1	0.93	<10	240	<5	<10	0.23	<5	<5	126	46	1.73	<50	<5
FWC 23		0.62	2	0.99	<10	290	<5	<10	0.23	<5	<5	19	201	2.26	<50	<5
FWC 24		0.90	1	0.84	<10	170	<5	<10	0.27	<5	<5	172	104	1.74	<50	<5
FWC 25		1.20	2	0.83	<10	200	<5	10	0.34	<5	<5	21	298	2.07	<50	<5
FWC 26		0.66	1	0.88	<10	120	<5	20	0.41	5	<5	68	94	1.56	<50	5
FWC 27		2.12	<1	1.02	<10	320	<5	<10	0.32	<5	<5	21	96	1.83	<50	<5
FWC 28		0.38	2	1.06	20	210	<5	<10	0.27	<5	<5	86	104	1.60	<50	<5
FWC 29		0.90	2	1.00	<10	310	<5	<10	0.31	<5	<5	12	143	1.72	<50	<5
FWC 30		0.76	1	0.85	<10	250	<5	<10	0.28	<5	<5	62	88	1.59	<50	<5
FWC 31		0.48	<1	1.01	<10	200	<5	<10	0.39	<5	<5	13	285	2.10	<50	<5
FWC 32		0.52	2	1.14	<10	130	<5	<10	0.06	<5	<5	107	750	2.05	<50	<5



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Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm
WCRACK 32		0.33	<50	0.41	370	27	0.15	<5	470	10	0.09	<10	<5	32	0.15	<50
WCRACK 33		0.22	<50	0.24	260	15	0.09	6	310	20	0.30	<10	<5	34	<0.05	<50
WCRACK 34		0.41	<50	0.39	290	46	0.10	8	440	10	0.33	<10	<5	25	0.07	<50
WCRACK 35		0.38	<50	0.42	300	30	0.13	6	430	<10	0.18	<10	<5	28	0.09	<50
WCRACK 36		0.58	<50	0.43	410	158	0.12	8	630	10	0.65	<10	<5	56	0.07	<50
WCRACK 37		0.49	<50	0.34	350	328	0.10	7	690	20	0.66	<10	<5	85	0.05	<50
WCRACK 38		0.60	<50	0.42	400	358	0.10	5	680	10	0.71	<10	<5	61	0.07	<50
WCRACK 39		0.53	<50	0.33	300	720	0.11	6	600	10	0.47	<10	<5	67	0.06	<50
FWC 1		0.31	<50	0.38	340	12	0.13	<5	440	<10	0.24	<10	<5	23	0.11	<50
FWC 2		0.39	<50	0.44	350	40	0.16	7	430	<10	0.10	<10	<5	30	0.14	<50
FWC 3		0.34	<50	0.29	250	267	0.08	<5	450	10	0.80	<10	<5	24	<0.05	<50
FWC 4		0.29	<50	0.42	310	12	0.14	8	350	10	0.19	<10	<5	26	0.14	<50
FWC 5		0.34	<50	0.40	370	37	0.18	7	420	10	0.31	<10	<5	36	0.15	<50
FWC 6		0.29	<50	0.37	340	48	0.12	<5	420	10	0.62	<10	<5	24	0.11	<50
FWC 7		0.43	<50	0.40	420	23	<0.05	<5	130	10	0.36	<10	<5	68	<0.05	<50
FWC 8		0.35	<50	0.37	290	122	0.16	<5	380	<10	0.05	<10	<5	32	0.14	<50
FWC 9		0.27	<50	0.38	350	343	0.14	<5	390	10	0.29	<10	<5	32	0.13	<50
FWC 10		0.38	<50	0.43	320	173	0.19	<5	420	10	0.15	<10	<5	37	0.16	<50
FWC 11		0.40	<50	0.39	310	209	0.18	5	380	10	<0.05	<10	<5	37	0.15	<50
FWC 12		0.37	<50	0.42	360	6	0.19	<5	440	<10	0.15	<10	<5	38	0.16	<50
FWC 13		0.26	<50	0.37	330	70	0.12	7	440	<10	0.51	<10	<5	26	0.08	<50
FWC 14		0.22	<50	0.45	420	108	0.12	8	550	20	0.50	<10	<5	22	0.13	<50
FWC 15		0.22	<50	<0.05	380	23	0.09	<5	<50	10	<0.05	<10	<5	<5	<0.05	<50
FWC 16		0.26	<50	<0.05	90	104	0.08	<5	<50	10	0.07	<10	<5	<5	<0.05	<50
FWC 17		0.26	<50	<0.05	150	40	0.09	<5	60	10	0.07	<10	<5	14	<0.05	<50
FWC 18		0.55	<50	0.25	200	869	0.09	6	400	10	0.75	<10	<5	23	<0.05	<50
FWC 19		0.31	<50	0.37	340	1195	0.13	<5	370	10	0.09	<10	<5	31	0.14	<50
FWC 20		0.33	<50	0.40	340	241	0.14	<5	420	10	0.25	<10	<5	30	0.15	<50
FWC 21		0.20	<50	0.33	380	2940	0.10	86	400	50	0.39	<10	<5	46	0.10	<50
FWC 22		0.33	<50	0.39	290	884	0.13	29	330	10	0.06	<10	<5	29	0.15	<50
FWC 23		0.39	<50	0.42	380	74	0.10	<5	410	20	0.33	<10	<5	33	0.12	<50
FWC 24		0.26	<50	0.37	310	702	0.11	<5	410	<10	0.15	<10	<5	27	0.14	<50
FWC 25		0.27	<50	0.39	410	983	0.10	6	520	<10	0.34	<10	<5	45	0.13	<50
FWC 26		0.20	<50	0.38	340	346	0.13	<5	360	20	0.31	10	<5	31	0.12	<50
FWC 27		0.40	<50	0.44	290	96	0.14	<5	480	<10	0.13	<10	<5	49	0.16	<50
FWC 28		0.34	<50	0.34	280	506	0.15	<5	380	10	0.17	<10	<5	36	0.13	<50
FWC 29		0.39	<50	0.43	350	112	0.16	<5	470	10	0.19	<10	<5	42	0.15	<50
FWC 30		0.31	<50	0.41	370	27	0.15	<5	410	10	0.12	<10	<5	35	0.15	<50
FWC 31		0.27	<50	0.48	420	100	0.13	<5	650	10	0.53	<10	<5	40	0.13	<50
FWC 32		0.58	<50	0.18	160	84	<0.05	<5	380	<10	0.82	<10	<5	6	<0.05	<50



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		U	V	W	Zn	Cu	Mo	W
		ppm	ppm	ppm	ppm	%	%	%
		50	5	50	10	0.01	0.001	0.01
WCRACK 32		<50	25	<50	60			
WCRACK 33		<50	14	<50	50			
WCRACK 34		<50	23	<50	60			
WCRACK 35		<50	24	70	60			
WCRACK 36		<50	21	<50	120			
WCRACK 37		<50	18	<50	210			
WCRACK 38		<50	21	<50	120			
WCRACK 39		<50	20	<50	160		0.082	
FWC 1		<50	23	<50	40			
FWC 2		<50	27	<50	40			
FWC 3		<50	12	710	500			0.09
FWC 4		<50	22	<50	50			
FWC 5		<50	24	<50	100			
FWC 6		<50	21	<50	130			
FWC 7		<50	<5	<50	60			
FWC 8		<50	24	<50	30			
FWC 9		<50	21	<50	100			
FWC 10		<50	24	<50	40			
FWC 11		<50	24	<50	40			
FWC 12		<50	26	<50	60			
FWC 13		<50	19	<50	50			
FWC 14		<50	24	<50	50			
FWC 15		<50	<5	<50	30			
FWC 16		<50	<5	<50	40			
FWC 17		<50	<5	<50	30			
FWC 18		<50	10	110	1100		0.094	
FWC 19		<50	24	<50	30		0.128	
FWC 20		<50	25	<50	50			
FWC 21		<50	24	<50	70		0.310	
FWC 22		<50	23	<50	40		0.094	
FWC 23		<50	28	<50	200			
FWC 24		<50	20	<50	60		0.077	
FWC 25		<50	41	150	60		0.106	
FWC 26		<50	18	<50	160			
FWC 27		<50	41	<50	50			
FWC 28		<50	21	<50	50		0.056	
FWC 29		<50	30	<50	80			
FWC 30		<50	23	<50	40			
FWC 31		<50	36	<50	50			
FWC 32		<50	9	70	20	0.08		



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Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
		0.02	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50	5
FWC 33		0.46	1	0.96	<10	270	<5	<10	0.31	<5	<5	14	140	1.74	<50	<5
FWC 34		0.38	2	1.06	<10	220	<5	<10	0.34	<5	<5	85	91	1.74	<50	<5
FWC 35		0.40	<1	1.06	<10	320	<5	<10	0.27	<5	<5	12	42	1.70	<50	<5
FWC 36		0.82	3	0.92	<10	190	<5	240	0.28	12	<5	68	160	1.61	<50	<5
FWC 37		0.56	1	0.97	30	180	<5	<10	0.22	<5	<5	16	159	1.81	<50	<5
FWC 38		0.64	1	0.94	4700	170	<5	<10	1.12	<5	<5	77	39	1.36	<50	<5
FWC 39		0.30	2	1.08	<10	150	<5	<10	0.29	5	<5	12	303	1.78	<50	<5
FWC 40		3.42	1	0.97	<10	230	<5	<10	0.30	<5	<5	77	134	1.58	<50	<5
FWC 41		0.64	<1	0.95	<10	350	<5	<10	0.24	<5	<5	16	42	1.54	<50	5
FWC 42		1.38	<1	1.18	4470	210	<5	<10	1.73	<5	<5	74	44	1.65	<50	<5
FWC 43		1.44	1	1.05	<10	280	<5	<10	0.29	<5	<5	16	253	1.78	<50	<5
FWC 44		0.42	2	0.95	<10	140	<5	<10	0.33	<5	<5	86	44	1.53	<50	<5



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CERTIFICATE OF ANALYSIS VA05073284

Sample Description	Method Analyte Units LOR	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm
		0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	0.05	50
FWC 33		0.32	<50	0.44	440	59	0.14	5	470	<10	0.21	<10	<5	45	0.14	<50
FWC 34		0.33	<50	0.40	330	174	0.16	9	380	10	0.24	<10	<5	41	0.15	<50
FWC 35		0.42	<50	0.45	300	43	0.16	10	450	10	<0.05	<10	<5	39	0.16	<50
FWC 36		0.31	<50	0.36	330	71	0.10	16	460	20	0.25	<10	<5	25	0.13	<50
FWC 37		0.32	<50	0.33	270	585	0.11	<5	360	20	0.30	<10	<5	28	0.10	<50
FWC 38		0.56	<50	0.14	260	30	<0.05	<5	440	10	0.50	10	<5	72	<0.05	<50
FWC 39		0.25	<50	0.41	380	26	0.12	13	410	20	0.30	<10	<5	28	0.14	<50
FWC 40		0.32	<50	0.39	370	134	0.13	<5	470	10	0.25	<10	<5	30	0.14	<50
FWC 41		0.40	<50	0.40	240	3320	0.14	<5	410	<10	0.25	<10	<5	37	0.15	<50
FWC 42		0.65	<50	0.43	430	26	<0.05	<5	290	<10	0.44	10	<5	80	<0.05	<50
FWC 43		0.38	<50	0.41	310	40	0.14	5	460	10	0.20	<10	<5	37	0.15	<50
FWC 44		0.28	<50	0.37	280	2100	0.16	7	380	10	0.26	<10	<5	37	0.13	<50



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Page: 5 - C
Total # Pages: 5 (A - C)
Finalized Date: 14-SEP-2005
Account: UNEXMA

CERTIFICATE OF ANALYSIS VA05073284

Sample Description	Method	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	Cu-AA46	Mo-AA46	ME-XRF10
	Analyte	U	V	W	Zn	Cu	Mo	W
	Units LOR	ppm	ppm	ppm	ppm	%	%	%
		50	5	50	10	0.01	0.001	0.01
FWC 33		<50	30	<50	50			
FWC 34		<50	22	<50	90			
FWC 35		<50	27	<50	40			
FWC 36		<50	26	110	300			
FWC 37		<50	19	<50	40		0.064	
FWC 38		<50	<5	<50	40			
FWC 39		<50	22	<50	160			
FWC 40		<50	23	<50	50			
FWC 41		<50	26	<50	30		0.359	
FWC 42		<50	<5	<50	50			
FWC 43		<50	25	<50	50			
FWC 44		<50	23	<50	50		0.228	

Appendix 3.
IP Geophysical Survey

DATA PROCESSING AND INTERPRETATION REPORT

3D Induced Polarization Geophysical Survey

Skuzzy Grid

Latitude: 49° 49' 18"

Longitude: 121° 49' 05" W

ALT Grid

Latitude: 49° 49' 34"

Longitude: 121° 47' 50" W

CRACK PROJECT

Harrison Lake Area, British Columbia

UNITED EXPLORATION MANAGEMENT INC.

Vancouver, B.C.

Survey by

SJ Geophysics Ltd.

Report Written by

Ron Sheldrake

S.J.V. Consultants Ltd.

Date: October 24, 2005

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List of Maps and Figures:- The Figures (map-images) are inserted within the report. Digital versions of the maps (pdf files), 3D matrix-models, meshfiles and the viewing program are included on the CD-Rom supplied with this report .

<i>Maps Included in this report</i>	
Figure 1	Location Map – ALT and Scuzzy Grids
Figure 2	3D Chargeability Model Image, Scuzzy Grid
Figure 3	Geological Map – Scuzzy Grid
Figure 4	Interpreted Chargeability – 50 meters below surface, Scuzzy Grid
Figure 5	Interpreted Chargeability – 250 metres below surface, Scuzzy Grid
Figure 6	Interpreted Resistivity – 250 meters below surface, Scuzzy Grid
Figure 7	Interpreted Chargeability – 250 meters below surface, ALT Grid
Figure 8	Interpreted Resistivity – 250 metres below surface, ALT Grid
Figure 9	Interpreted Chargeability – 25 metres below surface, ALT Grid
<i>Digital files on CD Rom – Scuzzy Grid</i>	
Plate R-1	Inverted Resistivity - 25 meter depth slice
Plate R-2	Inverted Resistivity - 50 meter depth slice
Plate R-3	Inverted Resistivity - 75 meter depth slice
Plate R-4	Inverted Resistivity - 100 meter depth slice
Plate R-5	Inverted Resistivity - 150 meter depth slice
Plate R-6	Inverted Resistivity - 200 meter depth slice
Plate R-7	Inverted Resistivity - 250 meter depth slice
Plate R-8	Inverted Resistivity - 300 meter depth slice
Plate C-1	Inverted Chargeability – 25 meter depth slice
Plate C-2	Inverted Chargeability – 50 meter depth slice
Plate C-3	Inverted Chargeability – 75 meter depth slice

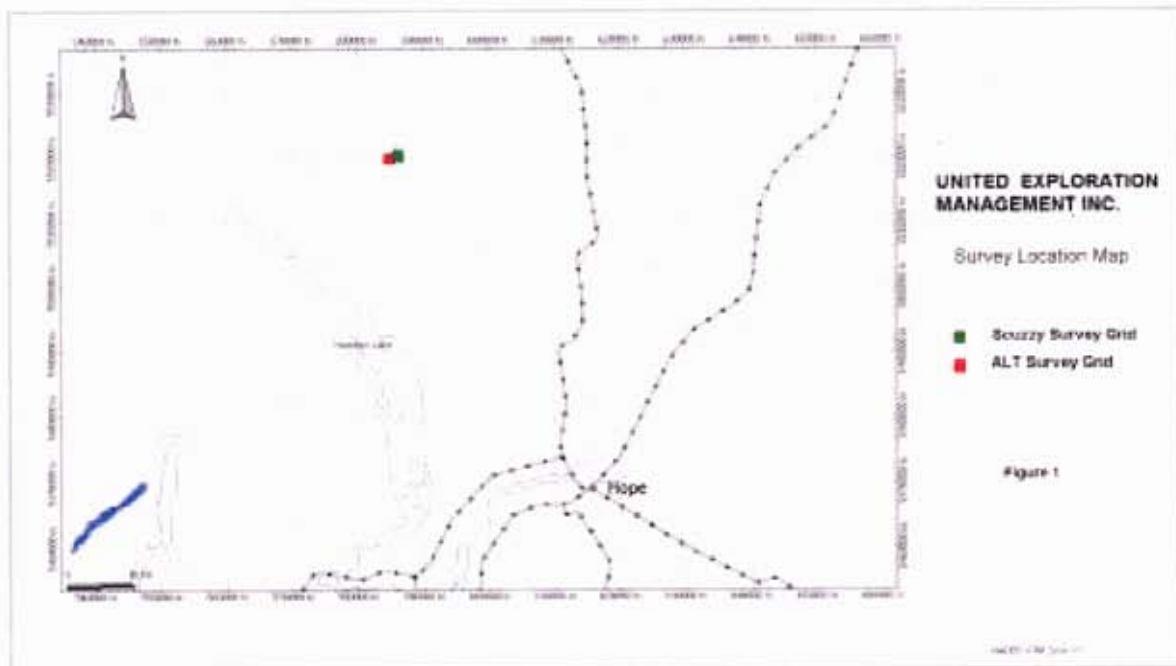
Plate C-4	Inverted Chargeability – 100 meter depth slice
Plate C-5	Inverted Chargeability – 150 meter depth slice
Plate C-6	Inverted Chargeability – 200 meter depth slice
Plate C-7	Inverted Chargeability – 250 meter depth slice
Plate C-8	Inverted Chargeability – 300 meter depth slice
Conductivity/Resistivity Model	SCUZdcinv3d.con
Chargeability Model	SCUZipinv3d.chg
Mesh File	ScuzMesh.txt
Viewing Program	MeshTools3D.exe
<i>Digital files on CD Rom – ALT Grid</i>	
Plate R-1	Inverted Resistivity - 25 meter depth slice
Plate R-2	Inverted Resistivity - 50 meter depth slice
Plate R-3	Inverted Resistivity - 75 meter depth slice
Plate R-4	Inverted Resistivity - 100 meter depth slice
Plate R-5	Inverted Resistivity - 150 meter depth slice
Plate R-6	Inverted Resistivity - 200 meter depth slice
Plate R-7	Inverted Resistivity - 250 meter depth slice
Plate R-8	Inverted Resistivity – 300 meter depth slice
Plate C-1	Inverted Chargeability – 25 meter depth slice
Plate C-2	Inverted Chargeability – 50 meter depth slice
Plate C-3	Inverted Chargeability – 75 meter depth slice
Plate C-4	Inverted Chargeability – 100 meter level
Plate C-5	Inverted Chargeability – 150 meter depth slice
Plate C-6	Inverted Chargeability – 200 meter depth slice
Plate C-7	Inverted Chargeability – 250 meter depth slice
Plate C-8	Inverted Chargeability – 300 meter depth slice

Conductivity/Resistivity Model	ALTdcinv3d.con
Chargeability Model	ALTipinv3d.chg
Mesh File	ALTMesh.txt

1 SUMMARY

SJ Geophysics Ltd. conducted a 3D Induced Polarization (3D IP) survey over 2 survey grids in the Harrison Lake Area, British Columbia. The purpose of the survey was to identify drill targets in an area of molybdenum and copper sulphide mineralization. The survey was conducted on the ALT Grid between August 19, 2005 and August 27, 2005 (9 days) and on the Scuzzy Grid between September 1, 2005 and September 10, 2005 (10 days). Drill holes have been selected on the strength of the geophysical data.

2 LOCATION AND GRID DESCRIPTION



Access to and from the survey grids was by helicopter from Langley, B.C. The geophysical crew placed their own camps and assisted with line placement. The terrain was extremely rugged and the geophysical readings were challenging to obtain.

The ALT grid consists of seven E-W traverses approximately 1 km in length. The traverse (line) interval was 150 meters, and the station interval was 75 m. The terrain is rugged and varied from about 1500 m to 1760 m ASL. An E-W ridge spanned the central portion of the survey grid.

The Scuzzy grid consists of seven N-S traverses also approximately 1 km in length. The traverse interval was also 150 meters, and the station interval was 75 m. The terrain is rugged and varied from about 1300 m to 1820 m ASL.

The coordinate system used for this report and all the maps produced for it is NAD83 UTM Zone 10.

3 CREW AND FIELD OPERATIONS

The SJ Geophysics Ltd. crew for the survey on the ALT grid consisted of 3 members, Jan Dobrescue, Paul Schellenburg, Patrick Washpan. United Exploration Management Inc. provided Eric Claussen and Brock McMichael as field assistants.

The SJ Geophysics Ltd. crew for the Scuzzy grid consisted of 5 members, Jan Dobrescue, Paul Schellenburg, Patrick Washpan, Trevor Stapleton and Keegan Jack. United Exploration Management Inc. provided Chad McMillan, Mike Mulberry, Ryan Boulanger and Will Penny as field assistants.

Together these crew mobilized to the camps by helicopter, set up camp, placed the survey lines and stations and took the geophysical measurements.

Azimuth, slope and GPS data was collected by the IP operator during the IP survey.

4 EQUIPMENT USED FOR THE SURVEY

The IP receiver system used combined three 4-dipole, SJ-24 Full Waveform Digital receivers. Together they provide 12 dipole capability. The transmitter used was a GDD Tx II 3.6Kw system. Details of this equipment are provided in Appendix 1 and Appendix 2 of this report.

5 DISCUSSION OF THE GEOPHYSICAL METHODS

5.1 Induced Polarization Measurements

The induced polarization (IP) technique is one of the principal tools used in the exploration for metallic minerals and resistive and conductive zones that molybdenum mineralization is sometimes associated with. IP surveys comprise of two different measurements; chargeability and resistivity. The purpose of IP chargeability measurements is to map the distribution of disseminated metallic mineralization in the subsurface rocks. Also, from the IP measurements, the apparent resistivity of the ground below and around the electrodes is calculated from the input current (I) and the measured primary voltage (V_p). The resistivity data (units of ohm-meters) are used to distinguish conductive and resistive rocks. With regard to precision, IP/Resistivity measurements are generally considered to be repeatable within five percent depending on the range of readings. However, variation will exceed that if field conditions change due to changes in water content of the ground or variable electrode contact.

The time domain IP technique energizes the ground with an alternating square wave series of pulses via a pair of current electrodes that make electrical contact with the ground. After the transmitter (Tx) pulse has been transmitted into the ground via the current electrodes, the IP effect is measured at the receiver electrodes as a time diminishing voltage. The IP effect is a measure of the amount of electrically polarizable material in the subsurface rock in the area around, and below, the measuring electrodes. Under ideal circumstances, IP responses (units of chargeability = milliseconds) are proportional to the amount of disseminated metallic sulfides in the subsurface rocks. Unfortunately, there are other rock materials that give rise to IP effects, including some graphitic rocks, clays and metamorphic rocks (serpentinite, for example) so, that from a geological point of view, IP responses are almost never uniquely interpretable. Because of the non-uniqueness of geophysical measurements it is always prudent to incorporate other data sets to assist in interpretation.

5.2 The Difference with the 3D IP Method

Traditionally Induced Polarization (IP) measurements have been made with the current electrodes (input electrodes) and the measuring electrodes positioned on the same line (called 2D IP). This technique suffers from two deficiencies; 1) All IP measurements “look” sideways so the interpreter must speculate whether the IP response came from below the survey line or off to either side of it, and 2) there were no IP measures made with current flow *between* the lines, and can serve to misrepresent the distribution of IP and chargeability responses in the ground.

Three dimensional (3D IP) surveys are designed to also take advantage of the 3D “inversion” techniques, which are mathematical calculations on the IP data in a 3 dimensional matrix.

Unlike conventional 2D IP surveys, in 3D IP surveys the electrode arrays are no longer restricted to in-line geometry allowing a more flexible and more definitive control of current flow. Typically in 3D IP surveys, the current electrodes and receiver electrodes are located on *adjacent* lines so that there is always current flow between the lines, and along the lines, both in a forward and reverse direction. Under these conditions, multiple current sources are applied to a single receiver potential dipole and data interpretation and noise cancellation improves accordingly. However, there is some trade off. An interpretive decision has to be made as to the viability of the readings as the primary voltage (V_p) diminishes when the current electrodes are adjacent, or nearly adjacent, to the potential dipoles. Very low amplitude V_p values are evaluated by inspection and, if necessary, they are deleted from the dataset. However, there is sufficient redundancy of data that this has little effect.

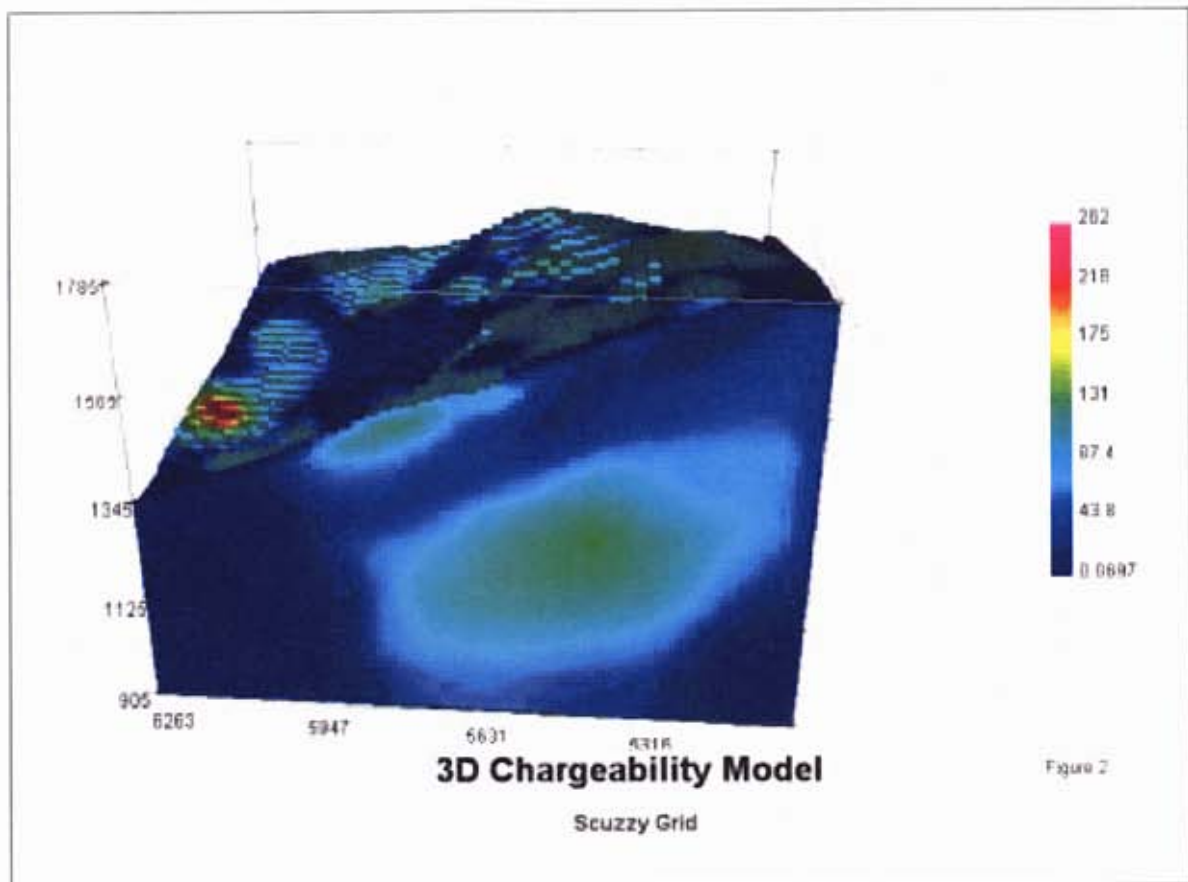
For this survey, a full wave form receiver designed by SJ Geophysics Ltd. was used. The current electrodes were located on the two adjacent lines (called “current lines”) on either side of the measured “potential” line. The IP receiver is located at a station on the “potential” line and the current electrodes are moved station by station down the “current lines”. The ground material (rock and overburden) is energized, first from one current line, and then from the other, in a back and forth routine, allowing for more efficient data collection.

6 IP SURVEY INTERPRETATION

6.1 3D Presentation

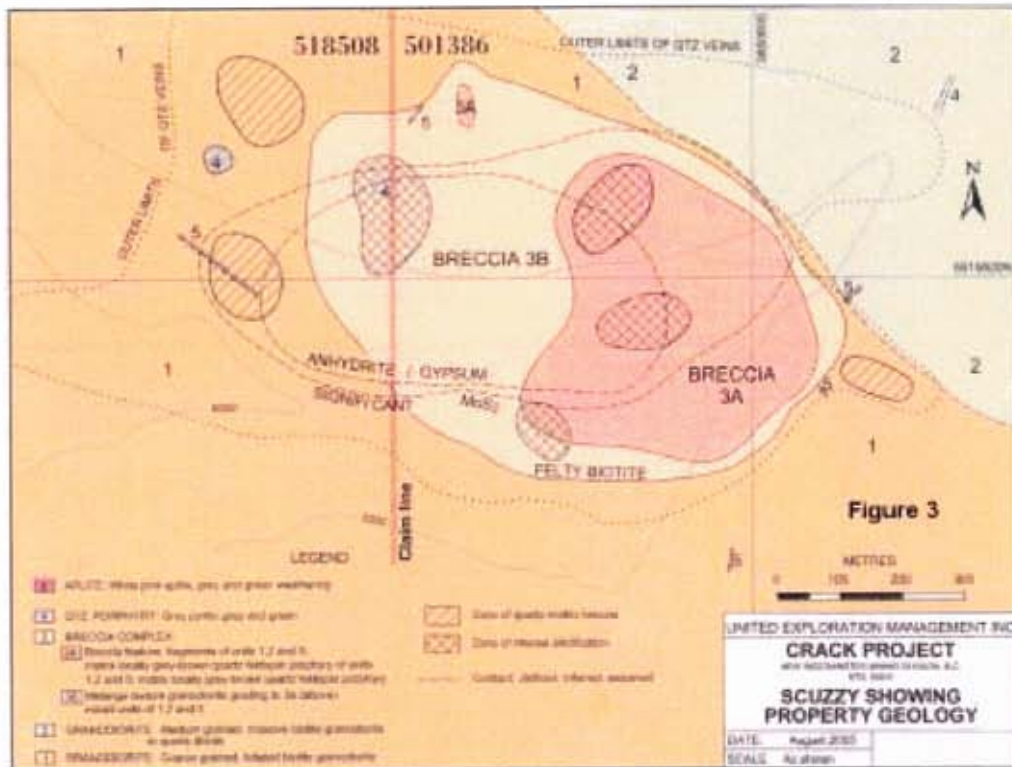
The principal presentation in 3D IP is a *volume* or “matrix-model” of calculated IP responses that represent the properly located distribution of interpreted IP chargeability and resistivity values. For example, see **Figure 2 – 3D Chargeability Model**

(Note: “3D levels” and “3D depth slices” mean different things. “Levels” are flat surfaces of the model at a fixed elevation that is what is seen in the 3D modelling programs. A “depth slice,” on the other hand, refers to a curved surface of the model that is equidistant from the ground surface. The 2D maps produced in this report are referred to as “depth slices” and are defined as “depths below surface.”)



The 3D IP model–matrix data is delivered with a program called MeshTools3D.exe that allows the user to “slice-dice and rotate” the volume for detailed inspection. Other freeware programs are also available, although they are more comprehensive, they are less easy to use. The programs that are used for the inversion and display of the IP data originate from the University of BC GIF facility (www.eos.ubc.ca/research/ubcgif). See Appendix 3 for details on the use of MeshTools3D.exe.

(Note: Because of the irregular shape of the present survey areas, the models are not trimmed to the survey boundaries, and remain as rectangular blocks.)



After determining what are the important interpretive features of the 3D model-matrix image maps are produced as “levels” or “depth slices” so that the IP data can be expressed in two dimensional map form and related to other 2D data sets. For this

report three 2D maps for each of the Scuzzy and ALT grids are presented for interpretation purposes.

6.2 Discussion IP Survey Data – Scuzzy Grid

The geological map of the Scuzzy showing outlines a complex breccia zone. The geophysical data generally conforms to the geological map, and further, indicates that a chargeable zone approximately extends to a depth of 250 m.

Figure 4 – Interpreted Chargeability, 50 meters below surface (Scuzzy Grid) shows the approximate outline of the breccia complex for reference. This chargeability map, is one of the shallower chargeability depth slices, and indicates a number of zones of chargeable materials located along the periphery of the breccia pipe. They may be due to local concentrations of sulphide minerals, although some clays and gouge materials can give rise to chargeability responses as well. The chargeability response on the northern boundary of the grid may also be sulphides.

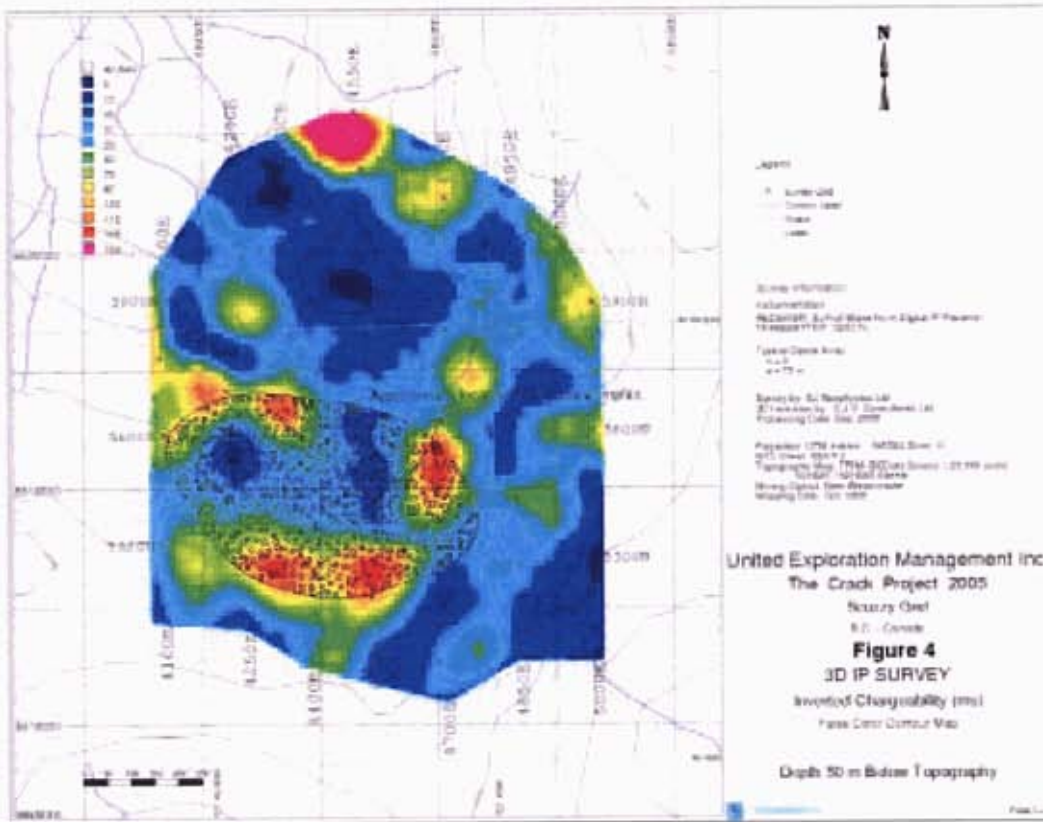


Figure 5 – Interpreted Chargeability, 250 meters below surface (Scuzzy Grid), indicates chargeable material on the southern (and south eastern) flank of the breccia

complex down to depths of at least 250 meters. (Note: the chargeability response on the western edges of the map is not viable. It is an artifact due to an edge effects.) These are proximally related to the resistivity features in Figure 6 and are targets for mineralization. Three drill sites

have been selected to test this zone.

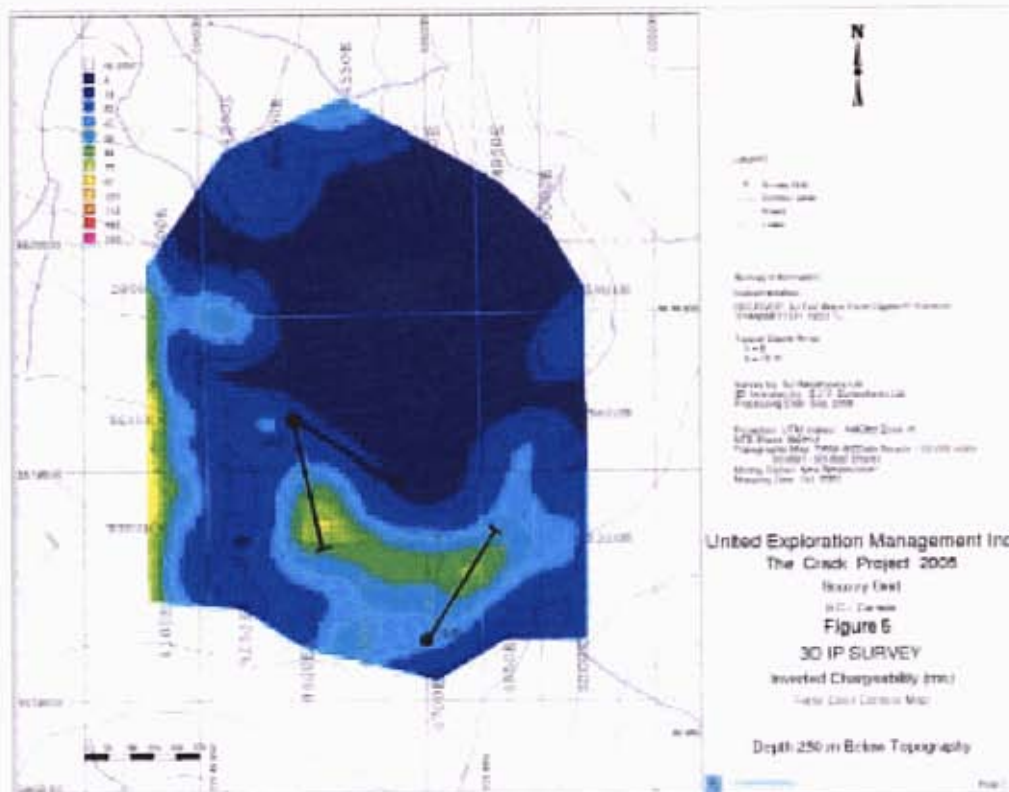
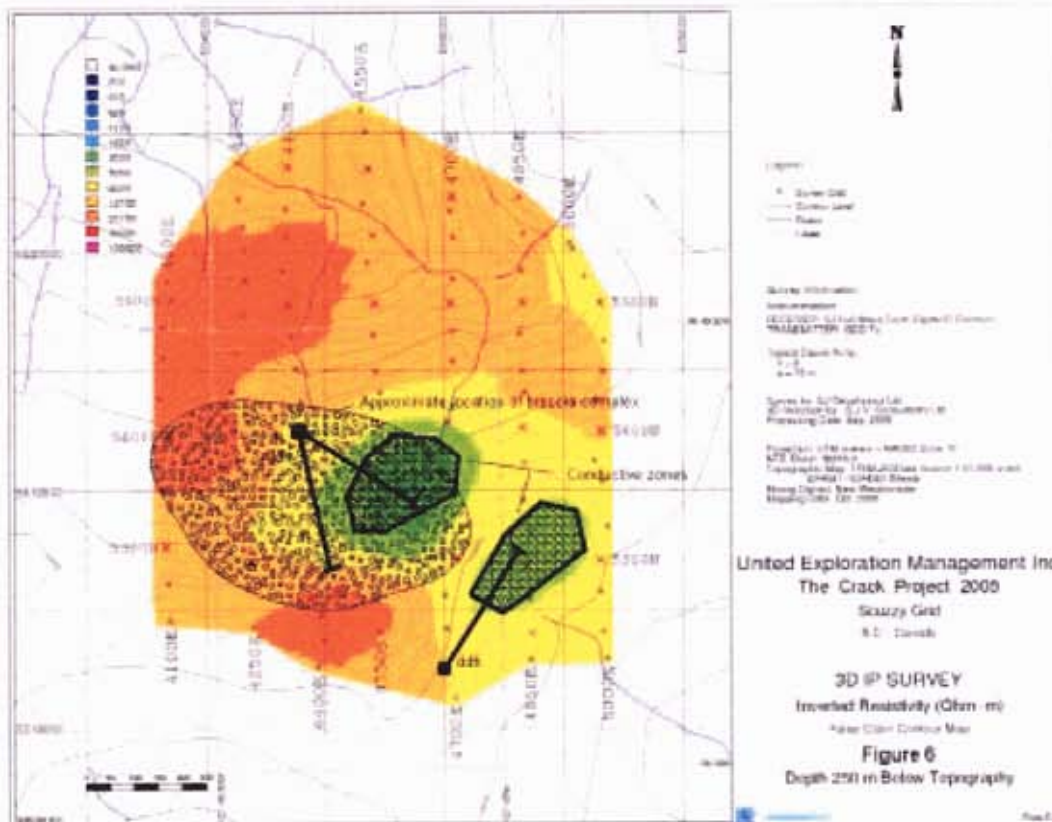


Figure 6 – Interpreted Resistivity, 250 meters below surface (Scuzzy Grid), provides further evidence

that a subsidiary leg of the breccia complex may exist to the SE. Two zones of lower chargeability (in the order of 5000 ohm-metres on a background of 13,700 ohm-meters) are separated by about 200 meters suggesting a subsidiary conductive zone may be developed at depth.



6.3 Discussion IP Survey Data – ALT Grid

No geological mapping is available to the writer on the ALT Grid, however the 3D IP data indicate a conductive and chargeable zone at depth.

Figure 7 – Interpreted Chargeability, 250 meters below surface (ALT) indicates a deep zone on increased chargeability at approximately 250 meters in depth. This response may be due to sulphide mineralization. Two drill holes have been selected to test this zone.

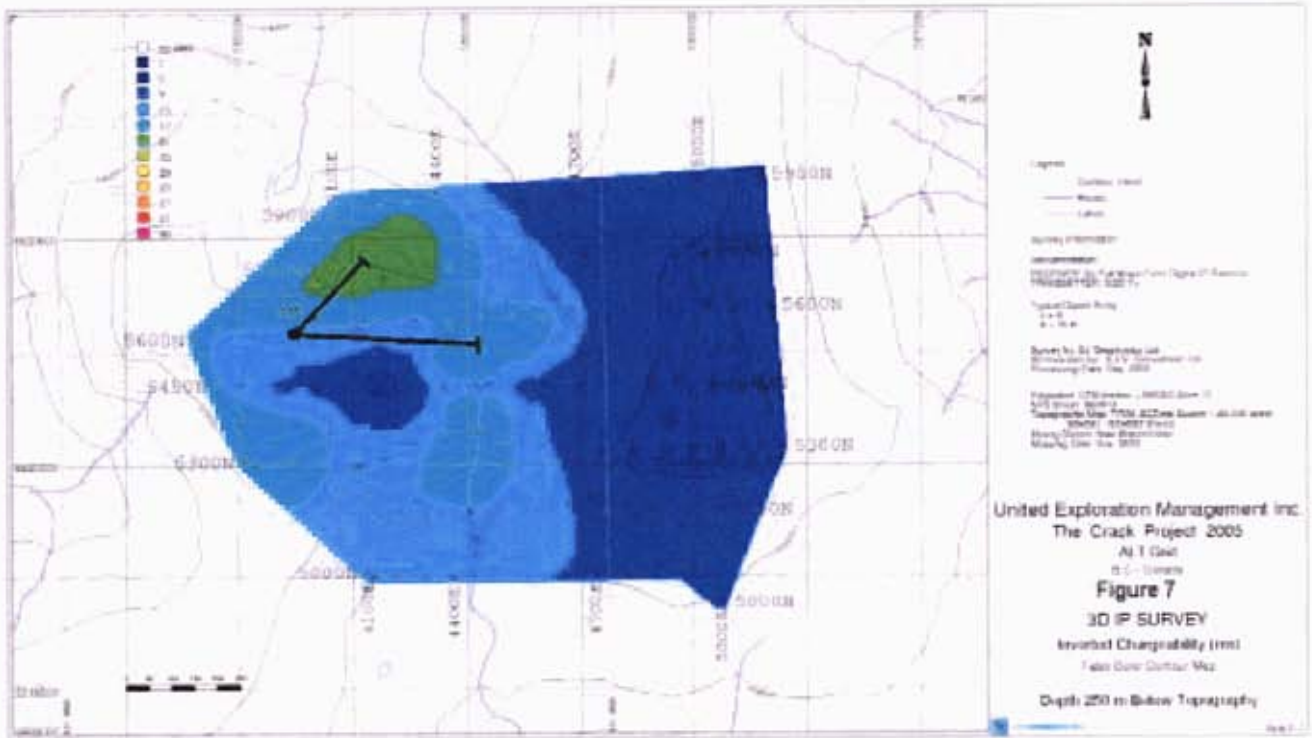


Figure 8 – Interpreted Resistivity, 250 meters below surface (ALT) shows a conductive zone (low resistivity) in the NW quadrant of the mapsheet and appears to be related to the chargeability responses mentioned above.

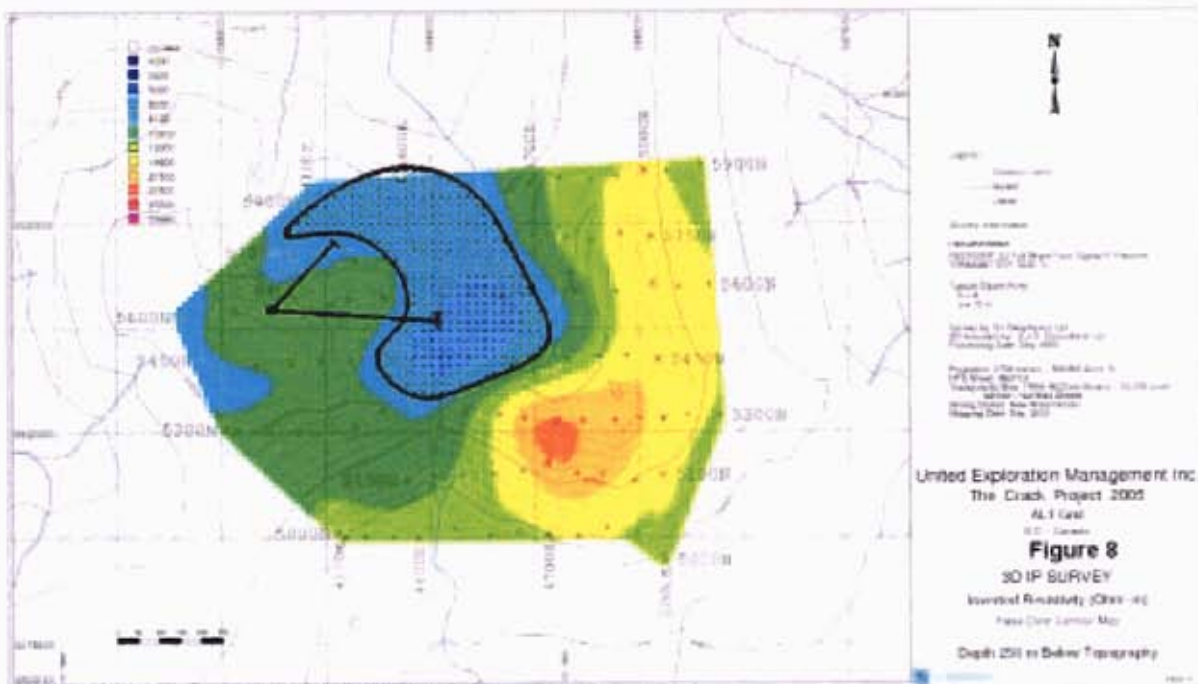
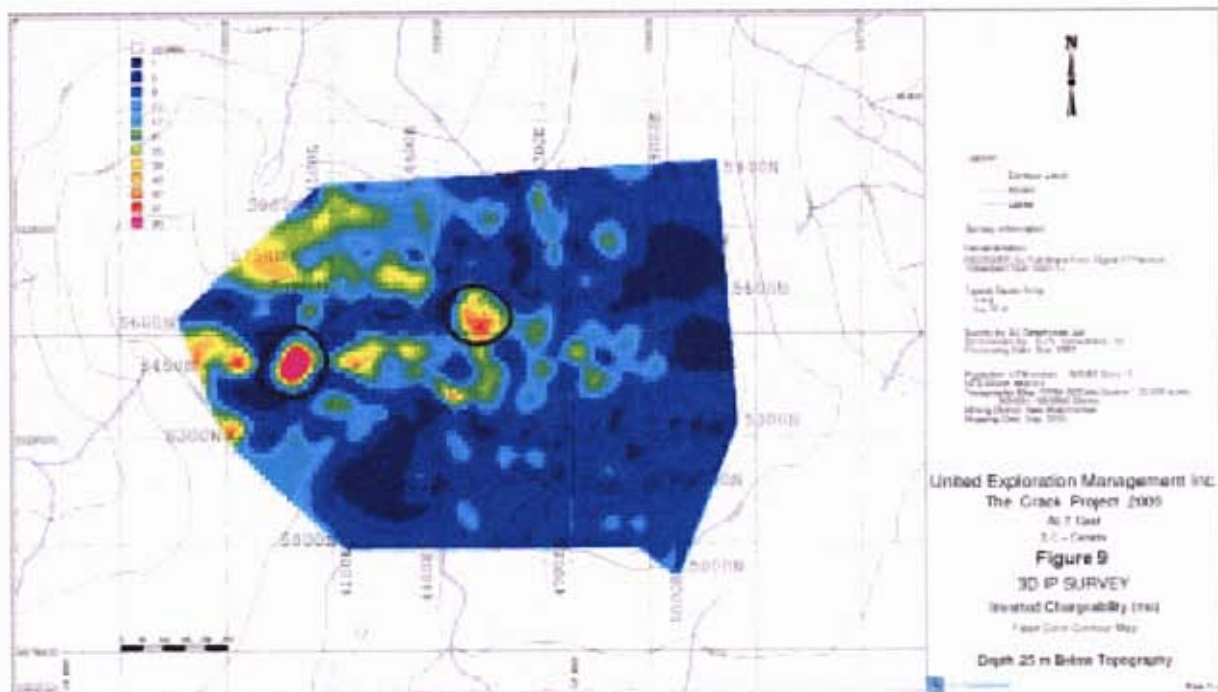


Figure 9 – Interpreted Chargeability, 25 meters below surface (ALT) indicates a variable distribution of near surface chargeability higher values, with some suggestion that the responses may be influenced by the terrain, perhaps due to less overburden on the ridge. However, two of the chargeability responses, Line 5450N near station 4100E and between lines 5450N and 5600N near station 4650E may arise from local concentration metallic minerals. They may not necessarily be outcropping, but will be within 20-25 meters from the surface. The other small responses on this map are typical of near surface geological noise and are not thought to have potential as mineralised targets.



7 RECOMMENDATIONS

Since the expectation is to test for large molybdenum systems, only the larger targets have been selected for drill testing. Conceptual drill sites have been selected, three for the Scuzzy Grid and two for the ALT grid, but road, drill pad, water access and terrain will be the ultimate positioning criteria.

The geophysical data, of course, provide only a bulk image of the geophysical characteristic of the underlying rocks, and the localized geological picture may be very much more complex than the geophysical data suggest. Careful comparison of the geophysical results with the ground truth is always warranted before drilling proceeds.

Scuzzy Grid

The 3D IP geophysical data have been successful in providing additional information beyond what is mapped at surface in the area of the breccia complex. Shallow zones of chargeable materials may be due to sulphide mineralization. These sulphides, if they exist, will be localized. More importantly, however, resistivity and chargeability targets at depth are thought to indicate more substantial targets, potentially as an increase in disseminated metallic mineralization or an increase in brecciation. Three drill hole sites are selected below to test them.

- DDH 1 - Grid coordinate: 4400E, 5600N
 UTM Coordinate: 584,709E: 5,519,614N
 Bearing 170 degrees T
- DDH 2 - Grid coordinate: 4400E, 5600N
 UTM Coordinate: 584,709E: 5,519,614N
 Bearing 120 degrees T
- DDH 3 - Grid coordinate: 4700E, 5000N
 UTM Coordinate: 585,007E: 5,5197,132N
 Bearing 25 degrees T

ALT Grid

The data indicate a zone of chargeable materials and increased conductivity about 200-250 meters depth which can be tested with the following drill holes.

- DDH 1 - Grid coordinate: 4025E, 5600N
 UTM Coordinate: 585,621E: 5,520,290N
 Bearing 42 degrees T

DDH 2 - Grid coordinate: 4125E, 5600N
 UTM Coordinate: 585,621E: 5,520,290N
 Bearing 94 degrees T

The drill log information should be correlated with the 3D IP data to evaluate its success.

Respectfully submitted,

Ron Sheldrake,
Geophysicist

BIBLIOGRAPHY

Nicholson George E., P. Geol., **“Geological and Geochemical Report in the Crack Moly Project, Scuzzy and Honeybun Showings,”** (incomplete) September 2005

STATEMENT OF QUALIFICATIONS – R. SHELDRAKE

I, **Ronald F. Sheldrake**, do certify that:

- 1) I received a B.Sc. in Geophysics from the University of British Columbia in 1974.
- 2) I have practiced the profession of exploration geophysics for in excess of 30 years.
- 3) This report is written solely by Ronald F. Sheldrake, except where other credit is given.
- 4) I have no interest, either direct, indirect or contingent in United Exploration Management Inc.

I hereby authorize United Management Inc. to use this report as is appropriate under the Securities Act regulations of Canada.

October 24, 2005

Ronald F. Sheldrake

S. J. V. Consultant Ltd.

APPENDIX 1 – SJ-24 FULL WAVEFORM DIGITAL IP RECEIVER**Technical:**

Input impedance:	10 Mohm
Input overvoltage protection up to 1000V	
External memory:	Unlimited readings
Number of dipoles:	4 to 16 +, expandable.
Synchronization:	software signal-processing user selectable
Proprietary intelligent stacking process	rejecting strong non-linear SP drifts
Common mode rejection:	More than 100 dB (for $R_s = 0$)
Self potential (Sp)	: range: -5V to + 5V : resolution: 0.1 mV
Proprietary intelligent stacking process	rejecting strong nonlinear SP drifts.
Primary voltage	: range: 1 μ V - 10V (24 bit) : resolution: 1 μ V : accuracy: typical less than 1.0%
Chargeability	: resolution: 0.10mV/v : accuracy: typical less than 1.06%

General: 4 dipole unit

Dimensions:	18x16x9 cm
Weight (with the internal battery):	1.1 kg
Battery:	12.0 V external
Operating temperature range:	-20°C to 40°C
Cased in fibreglass for shock resistance	

APPENDIX 2 – GDD IP TRANSMITTER

Input voltage:	120V / 60 Hz or 240V / 50Hz (optional)
Output power:	3.6 kW maximum.
Output voltage:	150 to 2000 Volts
Output current:	5 ma to 10Amperes
Time domain:	Transmission cycle is 2 seconds ON, 2 seconds OFF
Operating temp. range	-40 ⁰ to +65 ⁰ C
Display	Digital LCD read to 0.001A
Dimensions (h w d):	34 x 21 x 39 cm
Weight:	50kg.

APPENDIX 3 – MESHTOOLS 3D PROGRAM

This program is used to view 3D models originate from the University of BC Gif facility (www.eos.ubc.ca/research/ubcgif). The program is owned by the GIF Facility, and use of the program is restricted to non-commercial use to view data sets produced by UBC inversion programs. All other rights reserved.

Instructions:

1) It is easiest to have the all the four files that you need in the same directory, namely, **MeshTools3D.exe**, **3dmesh.txt**, **dcinv3ds.con**, **ipinv3d.chg** (or equivalent names)

MeshTools3D.exe is the viewing program.

3dmesh.txt is the mesh file that the program will ask for (comes with the model).

dcinv3ds.con and **ipinv3ds.chg** (or similar names) are the conductivity and chargeability model-matrices that are to be viewed.

2) Start by double clicking on MeshTools3d.exe. Go to File>Open and on the first line browse to the file "3dmesh.txt", then on the 2nd line input the conductivity model you want (dcinv3ds.con). For conductivity and resistivity models (only) a more effective array of colours is needed. Click on the little "log" box (means logarithmic). Leave the 2nd model line blank. Click on "OK."

3) There will appear a question "that some cells are set to 1e-008, do you want to ignore these" click "Yes"

4) The model will load and you should see the first image. This shows conductivity. If you wish to view resistivity toggle the "sigma/rho" button in the middle of the toolbar, then go to "view" menu pull down to "flip colours". You should now see low resistivities in blue and highs in red (the scale bar goes from, say, 1-1e+05). Now go to "view" again and select "labels" and this will put the coordinates on the axes. These are the trimmed models which are already cut down to the extent of the data (there are no padding cells).

If you hold the right mouse button down (it is not a click) while the cursor is on the model and you move the mouse the whole thing spins and rotates in 3D; with a little practice you can be looking at any orientation you like.

Go back to :options" to experiment. Change the colour bar: Max/Min set Max=5000, Min=50, this makes the highs look redder and the lows look bluer and enhances the difference. Also try Max=2000, Min=20.

5) Use the WESNTB buttons to select a direction and then slice in and out with the arrow buttons just to the right.

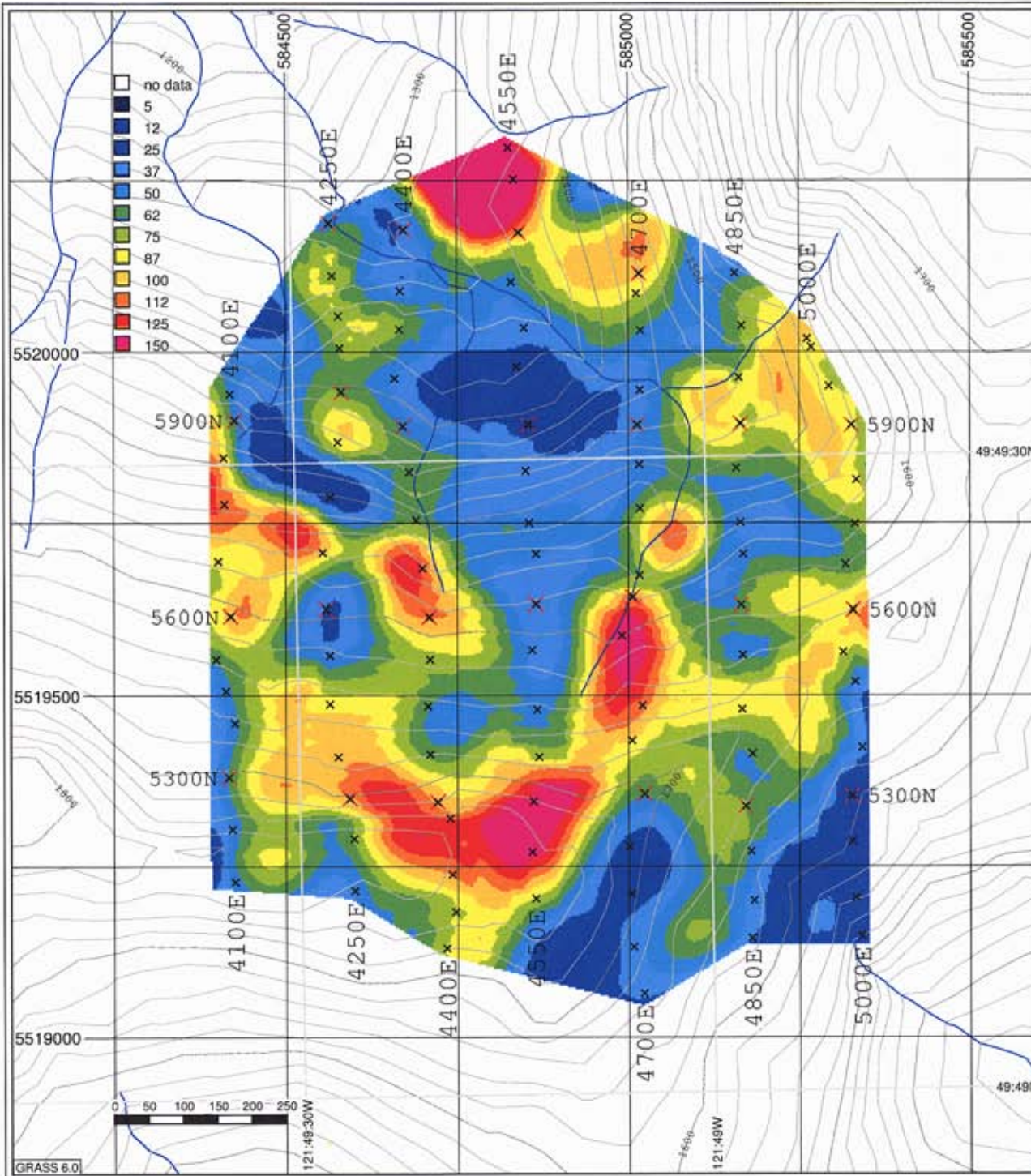
One very useful viewing technique is the "cut off" which displays a selected range of values and for resistivity it can show all the values above a certain limit and all values below a limit at the same time. "options"> "cut off"> min=2000 (you can leave max= alone) this will show all the values above 2000 and you can see the high resistivity bodies as volumes. To orient yourself in the block you can step in with the cut-planes (WESNTB) buttons from several sides to bracket (or center) the feature in the mesh coordinates.

6) Now minimize the model and start the program again. Load the mesh, and now load the chargeability model "ipinv3ds.chg", but do not click the "log" box, as the colour display won't be correct. There will appear a question "that some cells are set to 1e-008, do you want to ignore these" click "Yes"

7) For the chargeability model-matrix you do not need to change sigma/rho or flip colours you can proceed directly with putting the labels and to set to color bar (0-30).

8) Compare with the resistivity (you can have both models side by side).

Appendix 3a.
Scuzzy Grid Chargeability and Resistivity Maps
Plates C-1 to C-8 and R-1 to R-8



Legend

- × Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

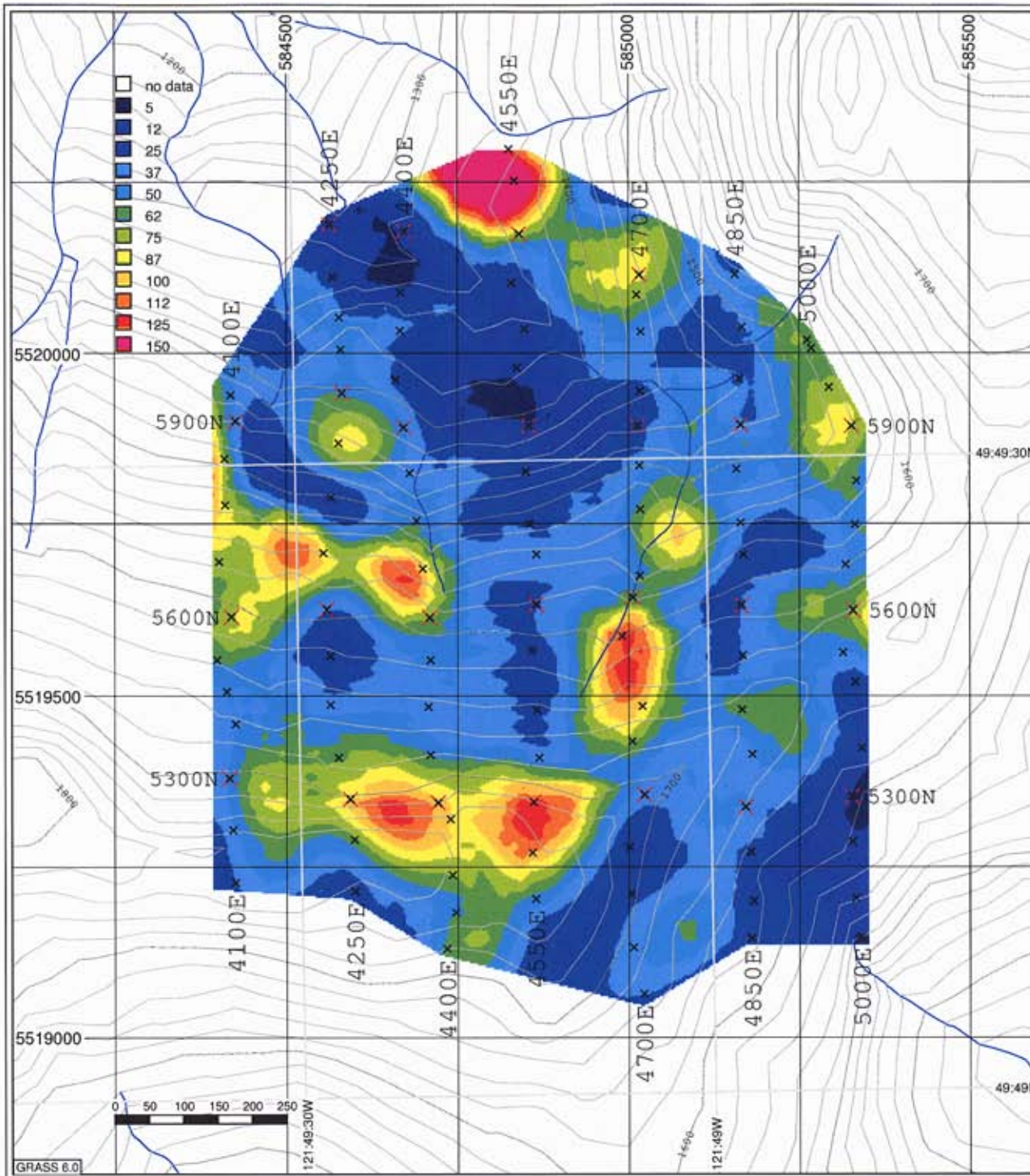
Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
The Crack Project 2005
 Scuzzy Grid
 B.C – Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map

Depth 25 m Below Topography





Legend

- × Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

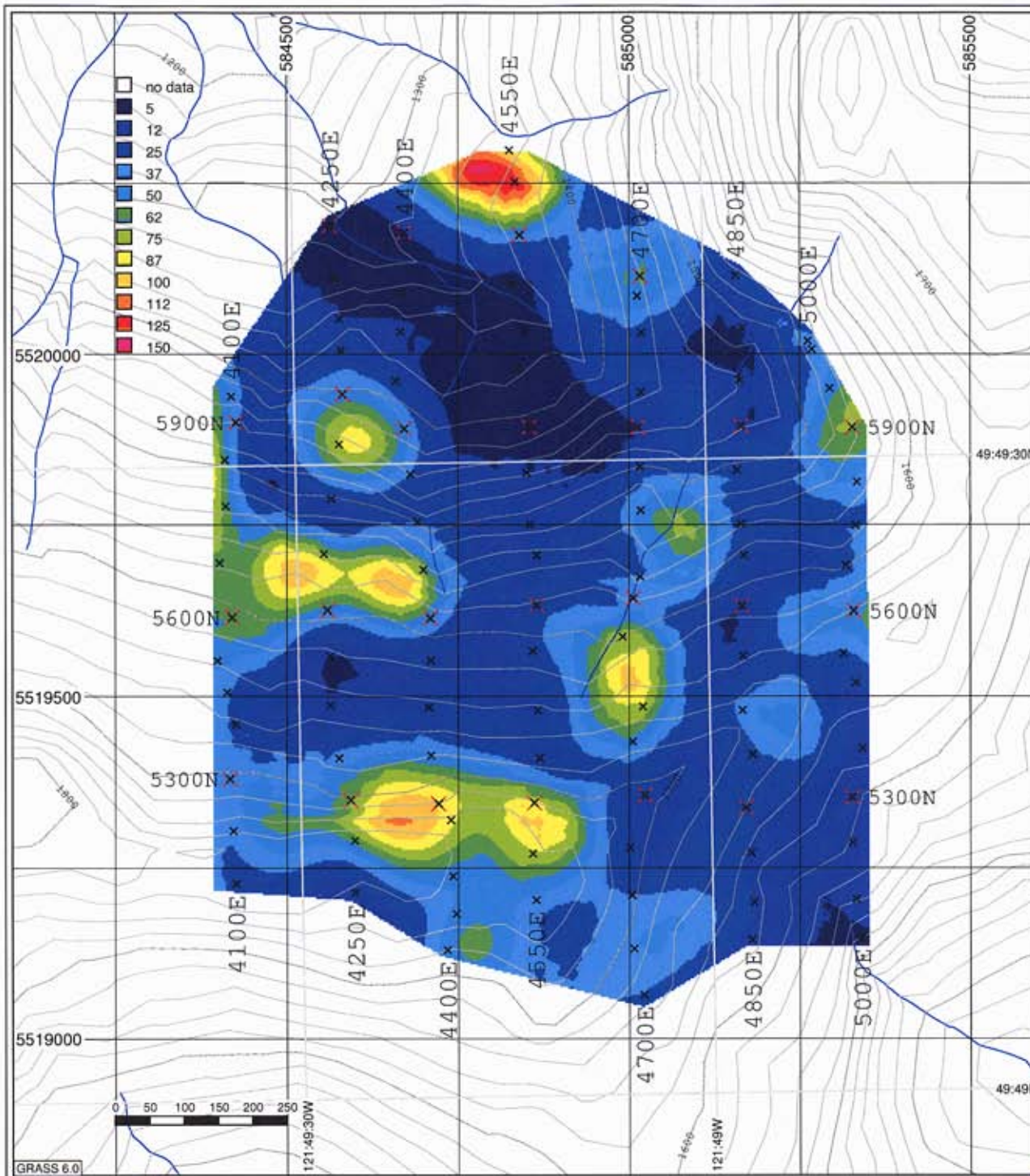
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C – Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map

Depth 50 m Below Topography



Legend

- x Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

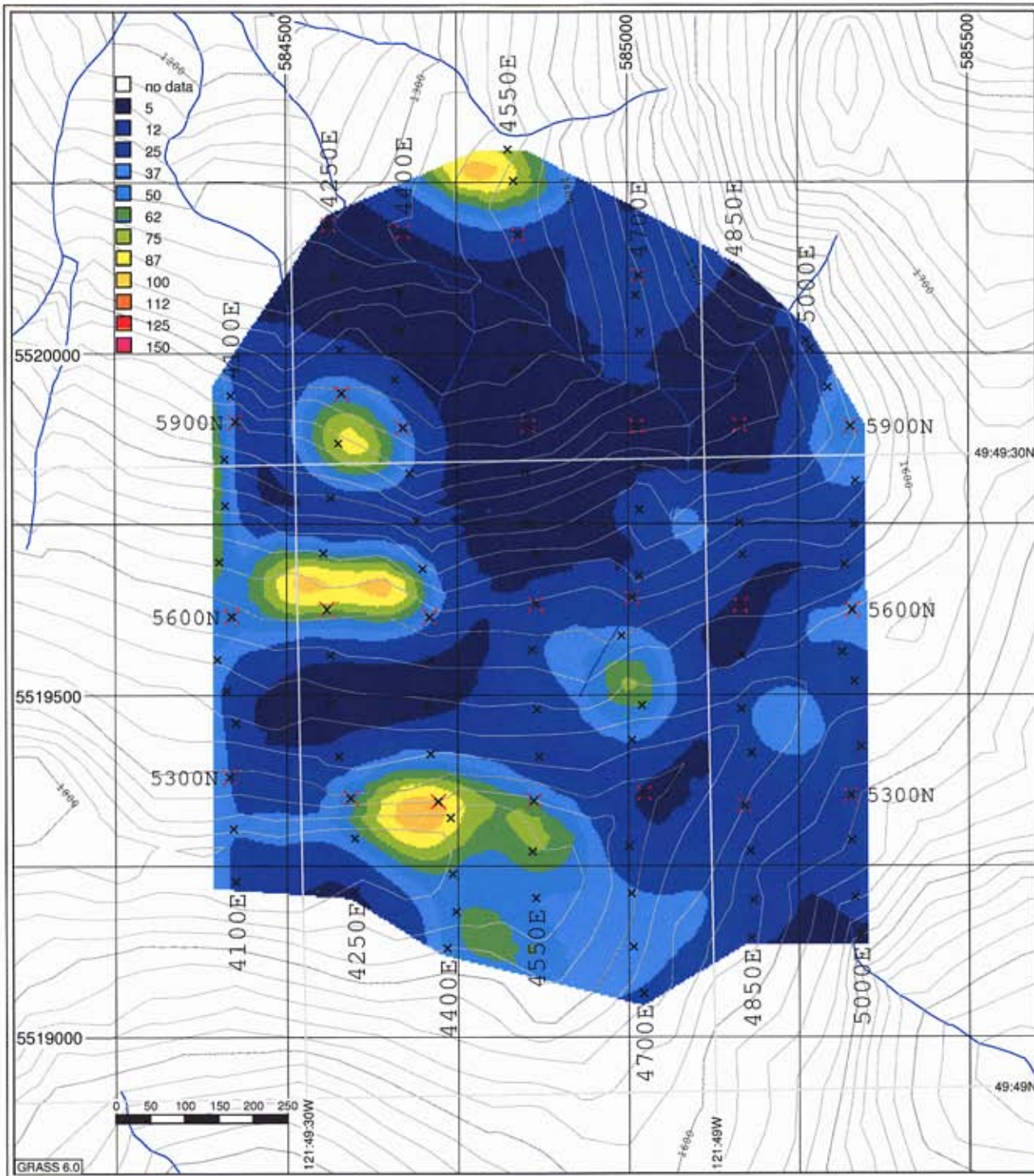
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map

Depth 75 m Below Topography



Legend

- x Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

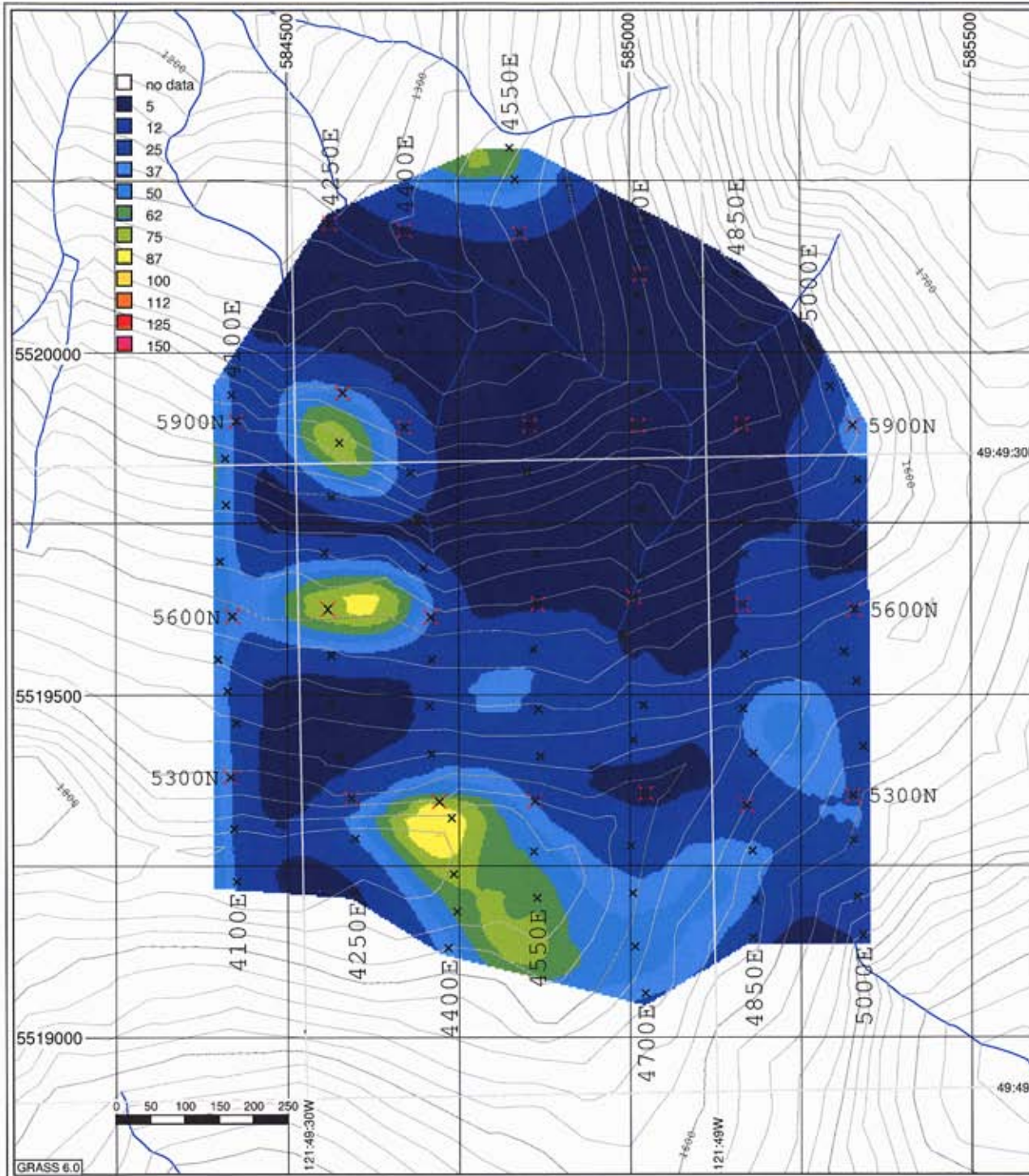
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map

Depth 100 m Below Topography



Legend

- x Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

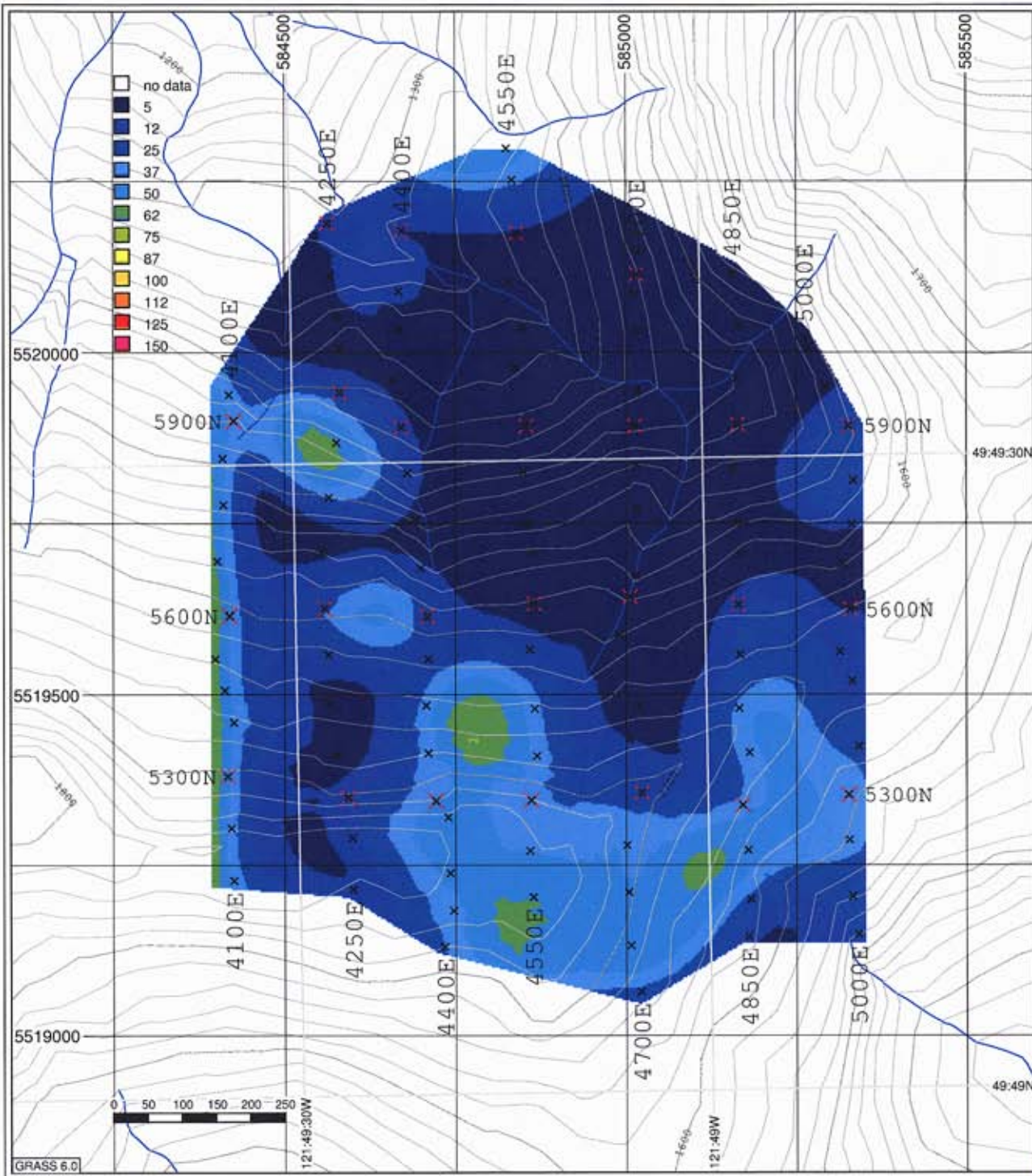
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
Inverted Chargeability (ms)
 False Color Contour Map

Depth 150 m Below Topography



Legend

- × Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

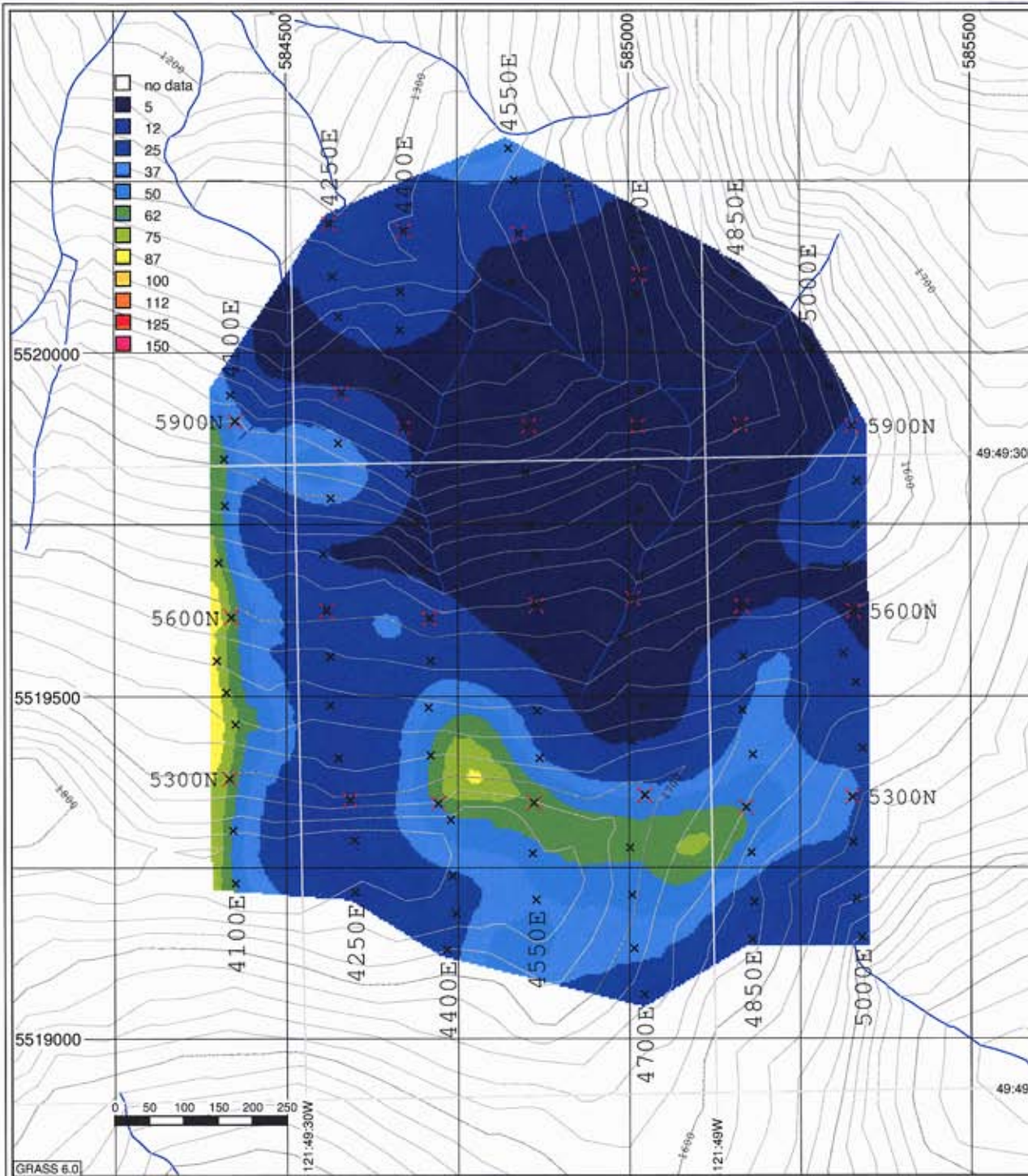
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map

Depth 200 m Below Topography



Legend

- × Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

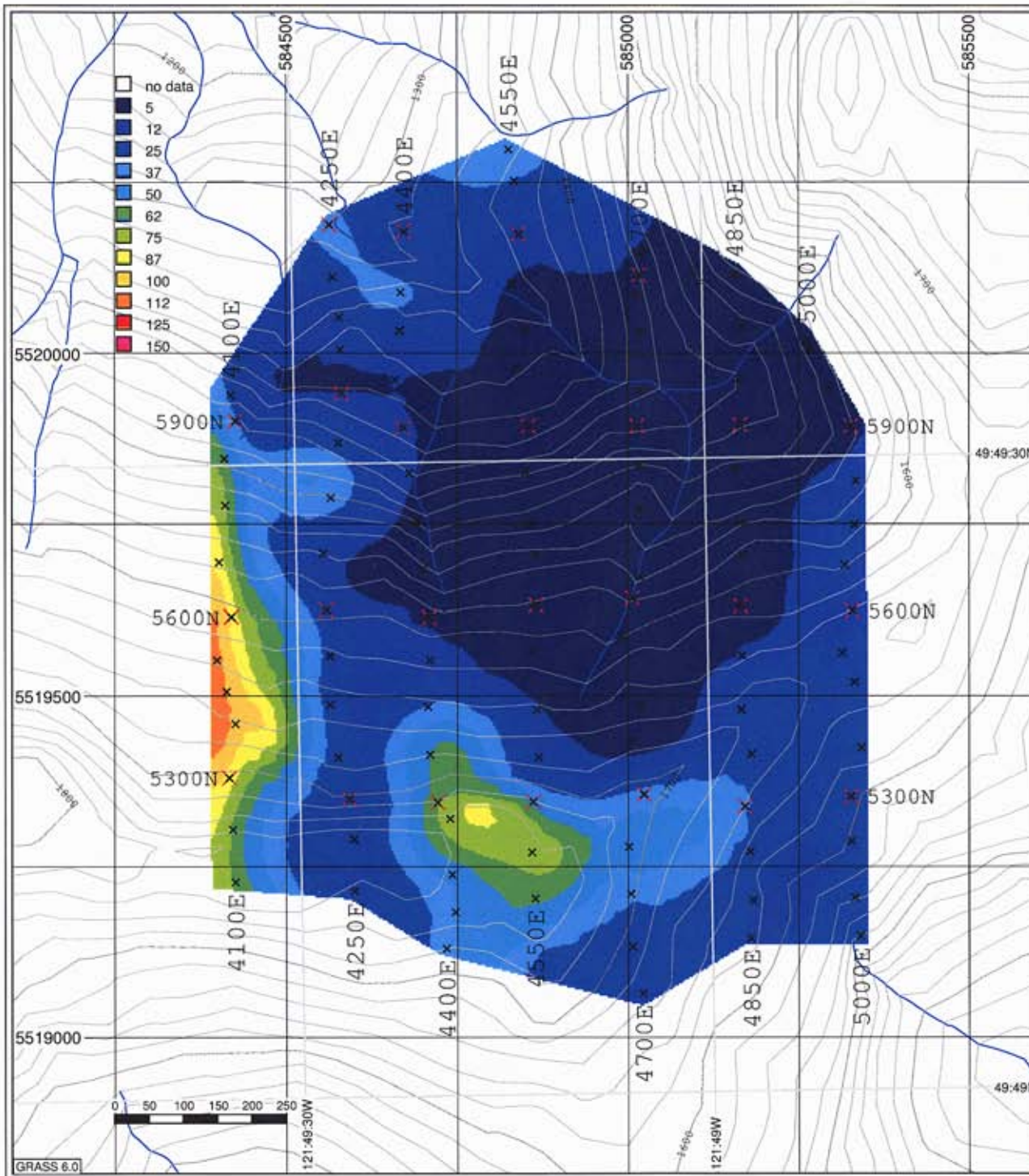
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map

Depth 250 m Below Topography



Legend

- × Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

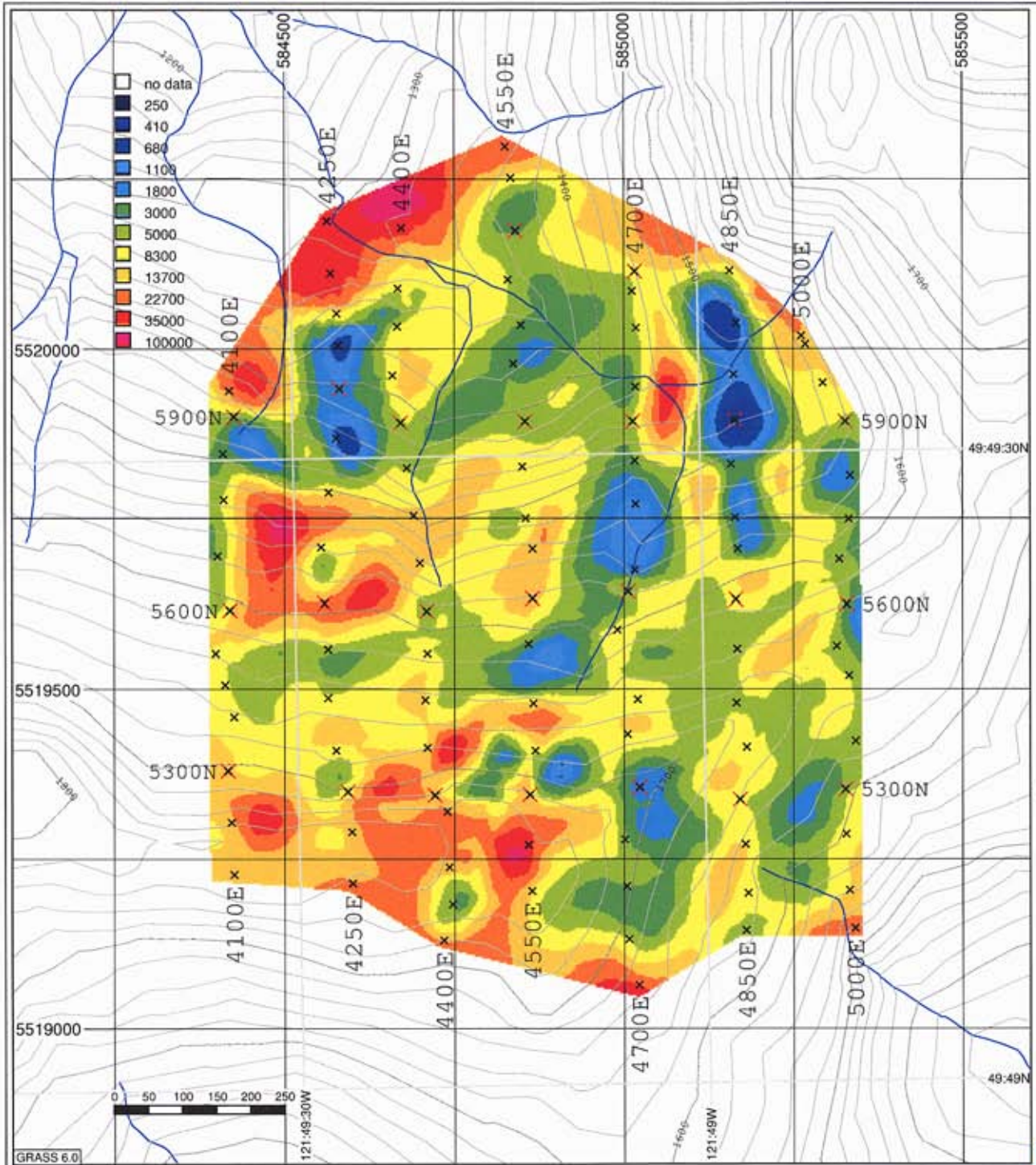
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C – Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map

Depth 300 m Below Topography



Legend

- x Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

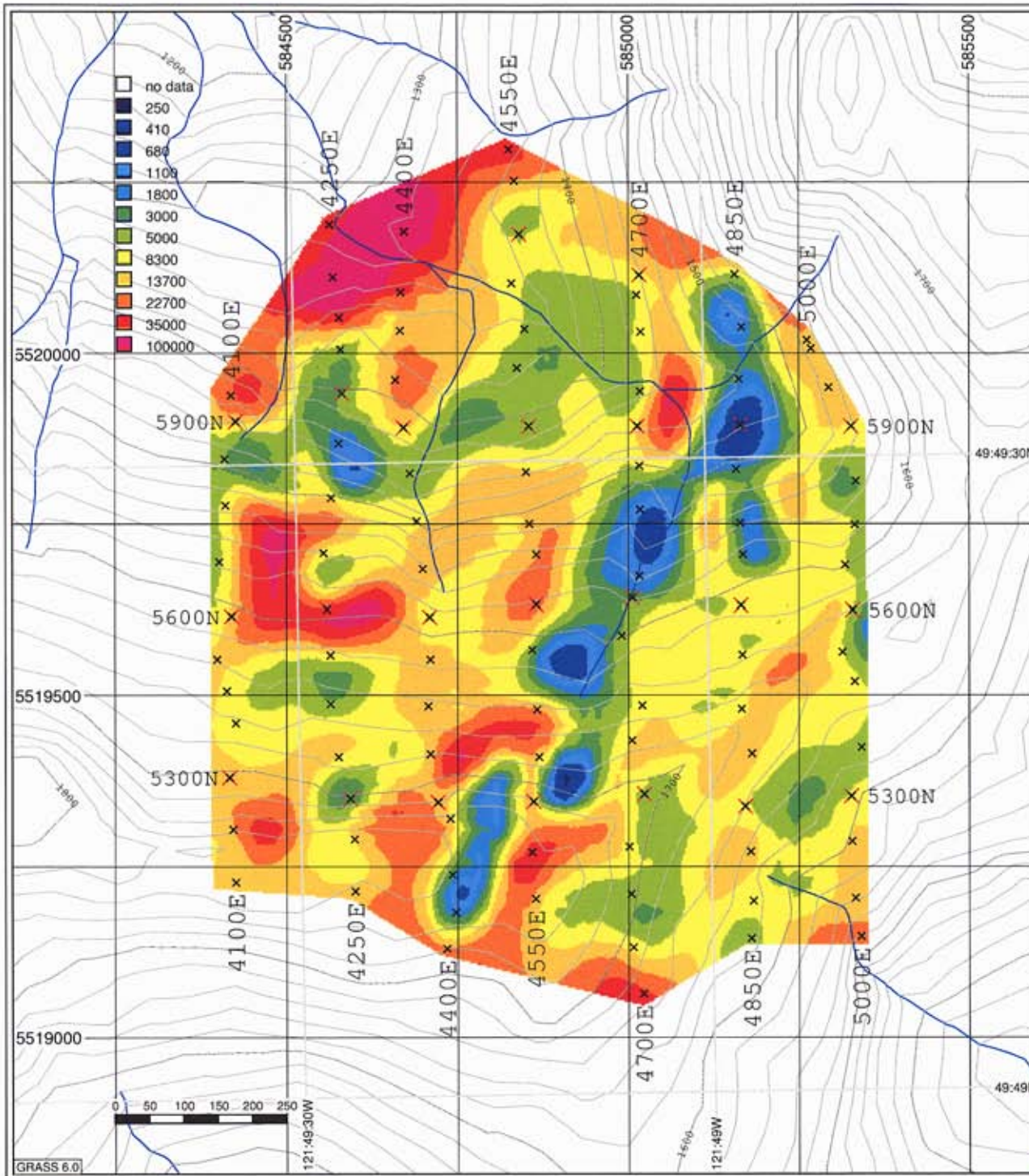
Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map

Depth 25 m Below Topography





Legend

- x Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

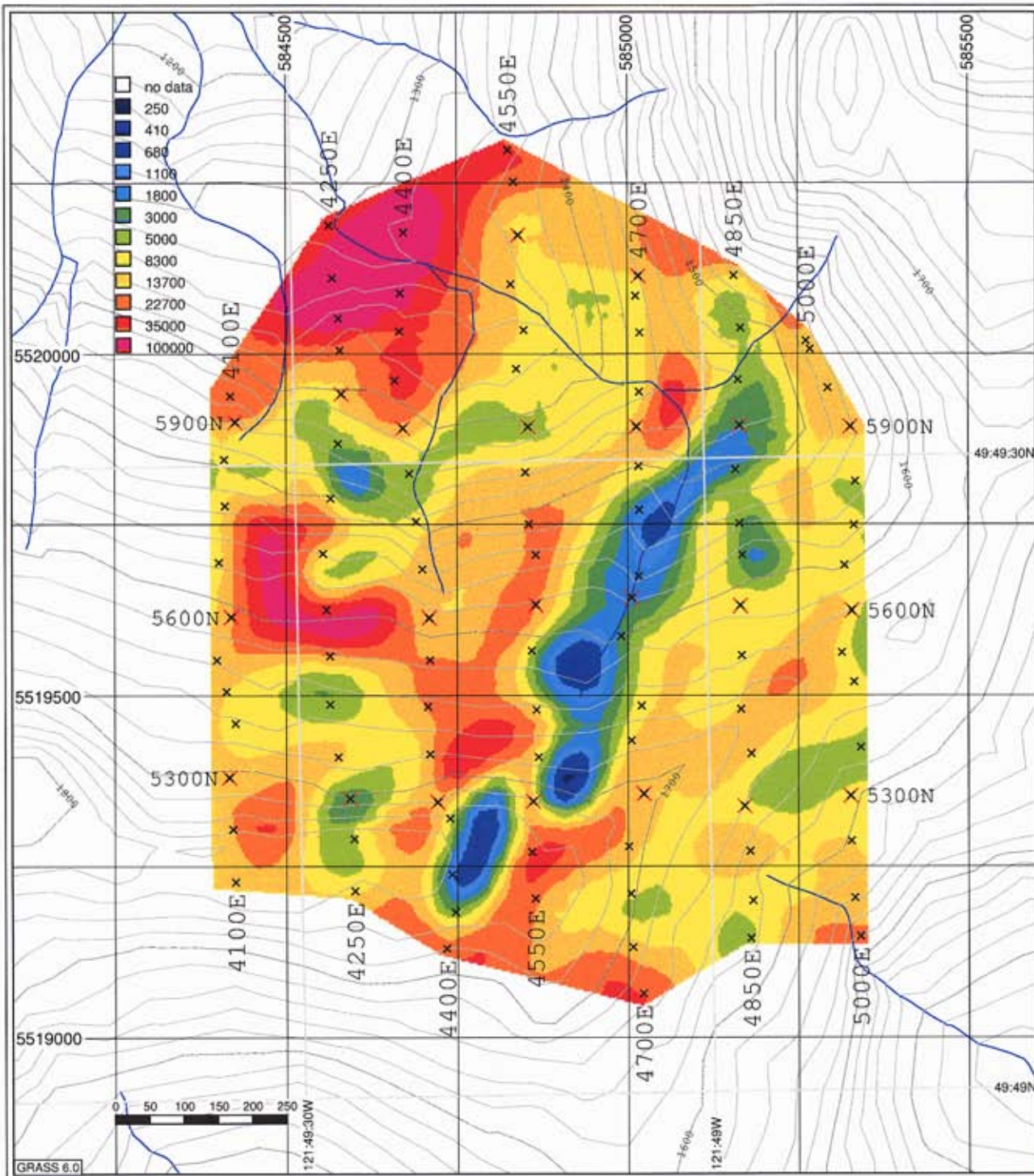
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C – Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map

Depth 50 m Below Topography



Legend

- x Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

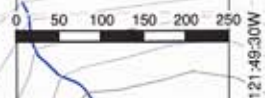
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

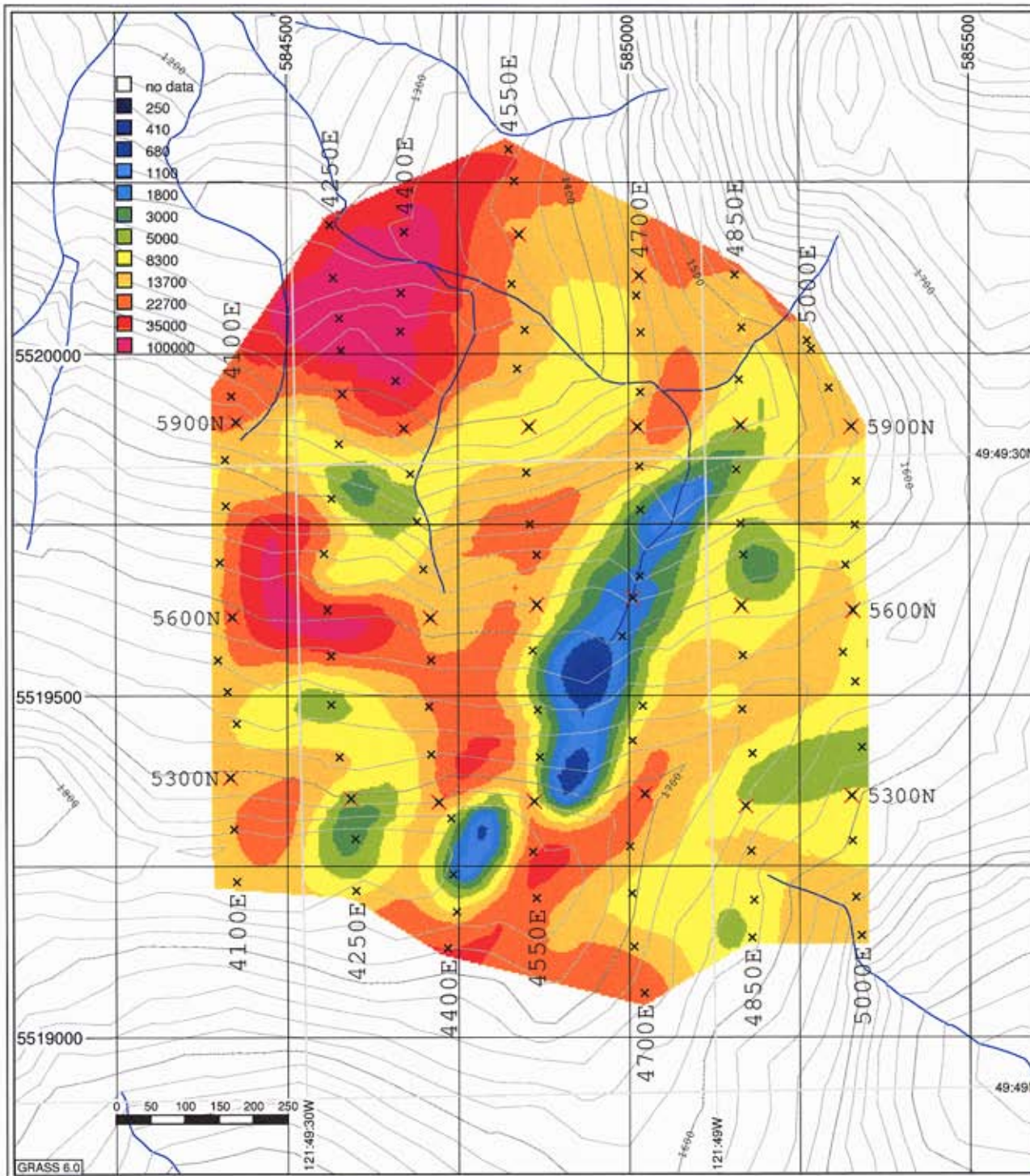
Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map

Depth 75 m Below Topography





Legend

- x Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

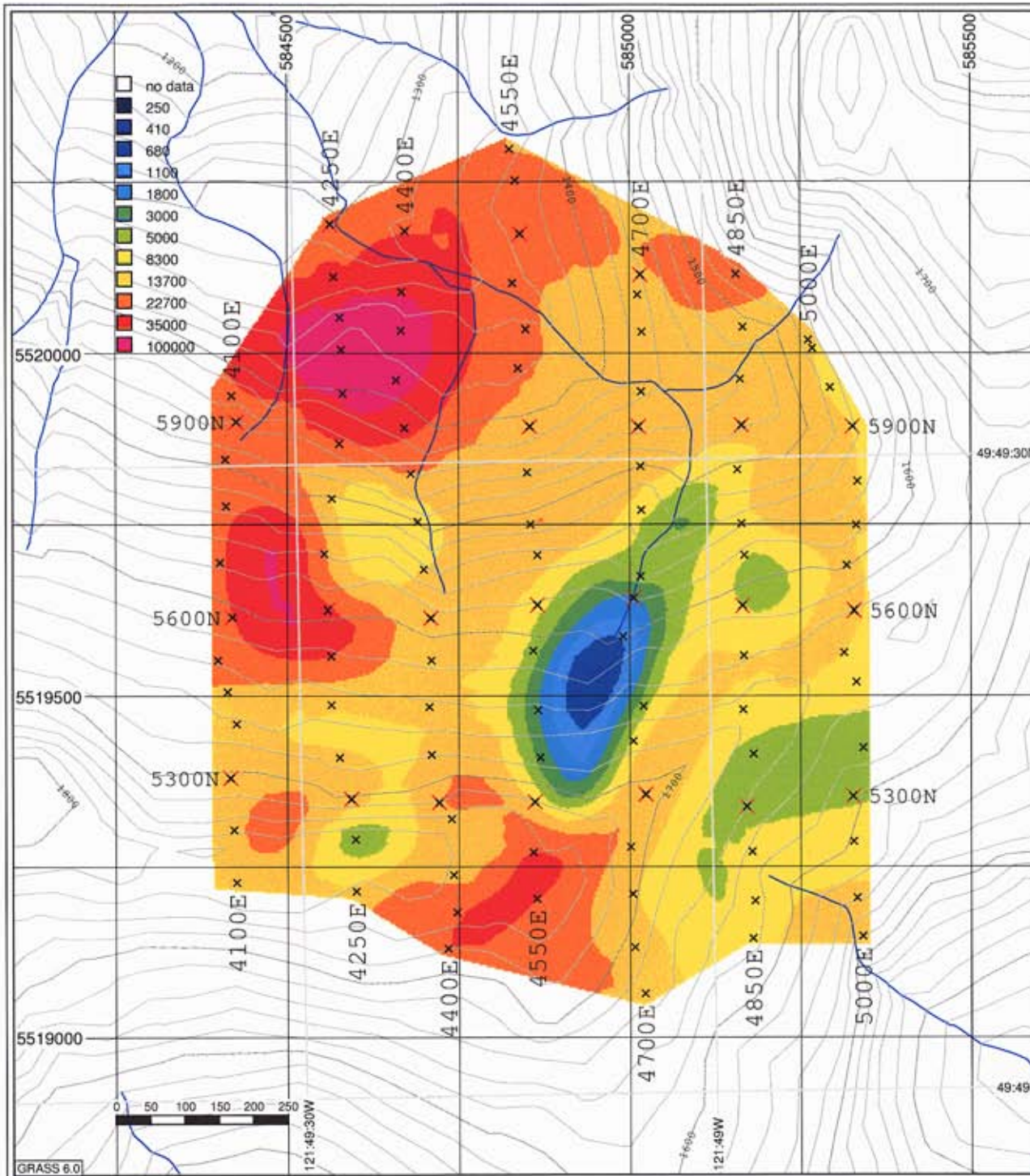
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

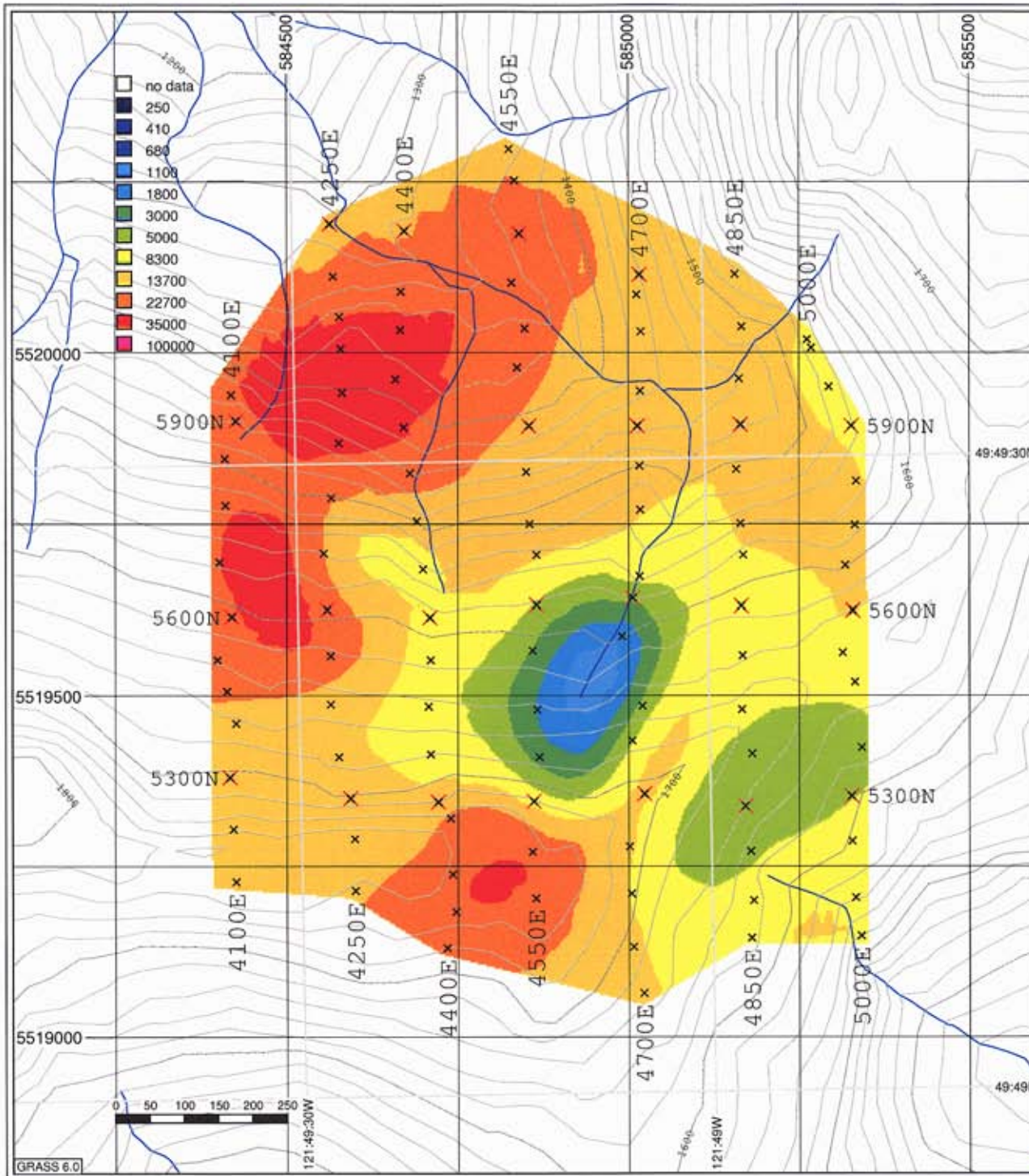
Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C – Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map

Depth 100 m Below Topography

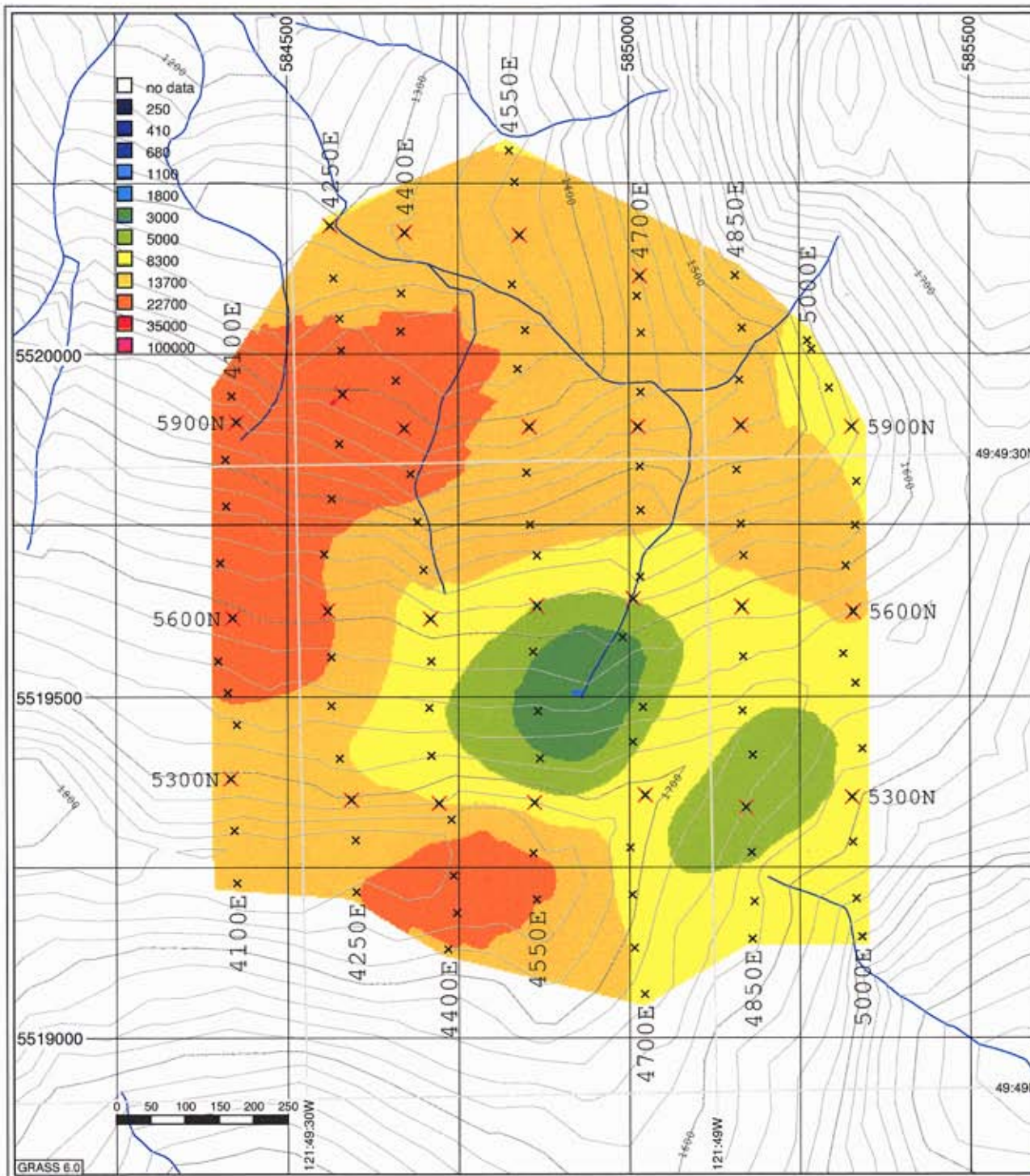


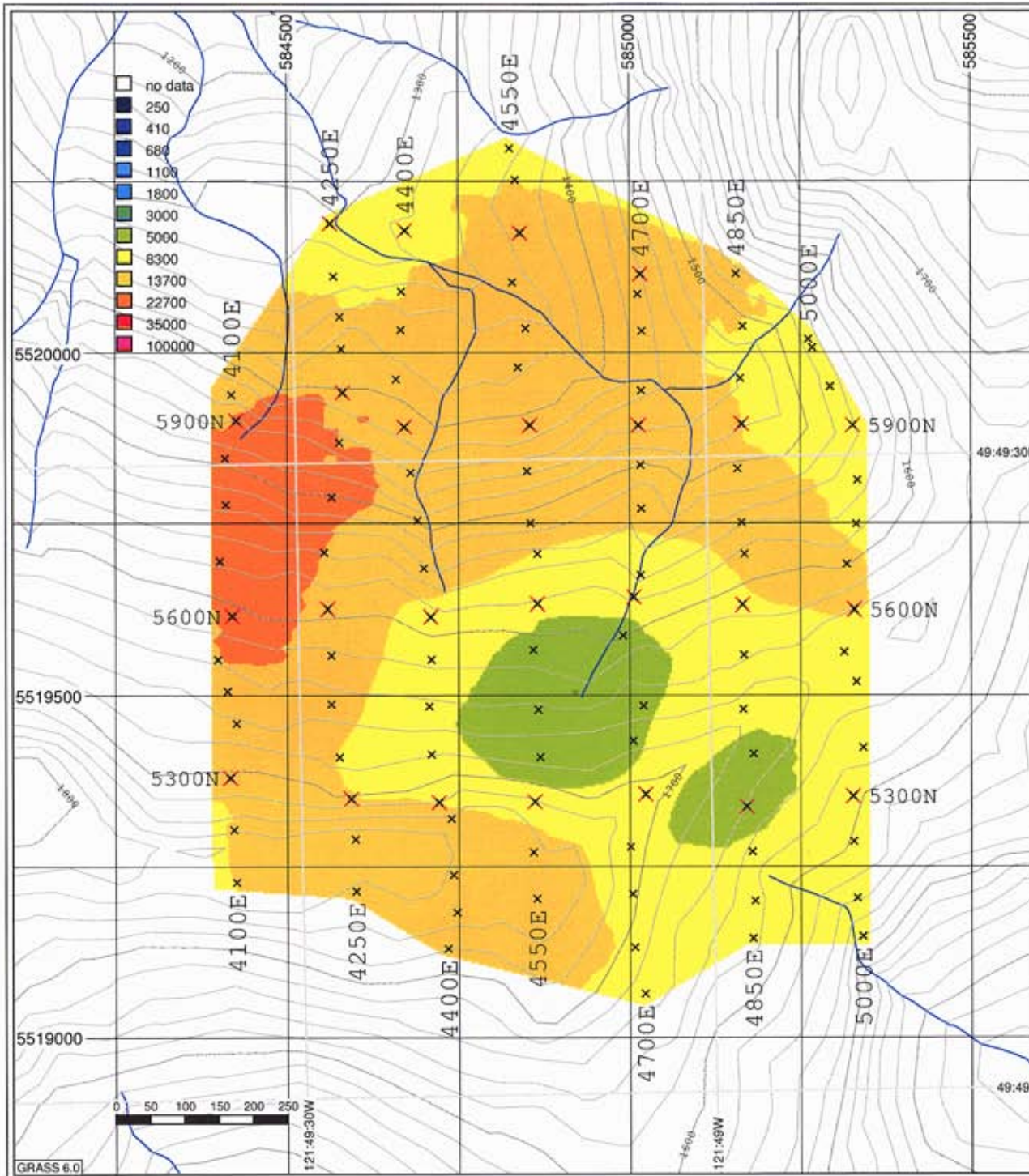


United Exploration Management Inc.
The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map

Depth 200 m Below Topography





Legend

- x Survey Grid
- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

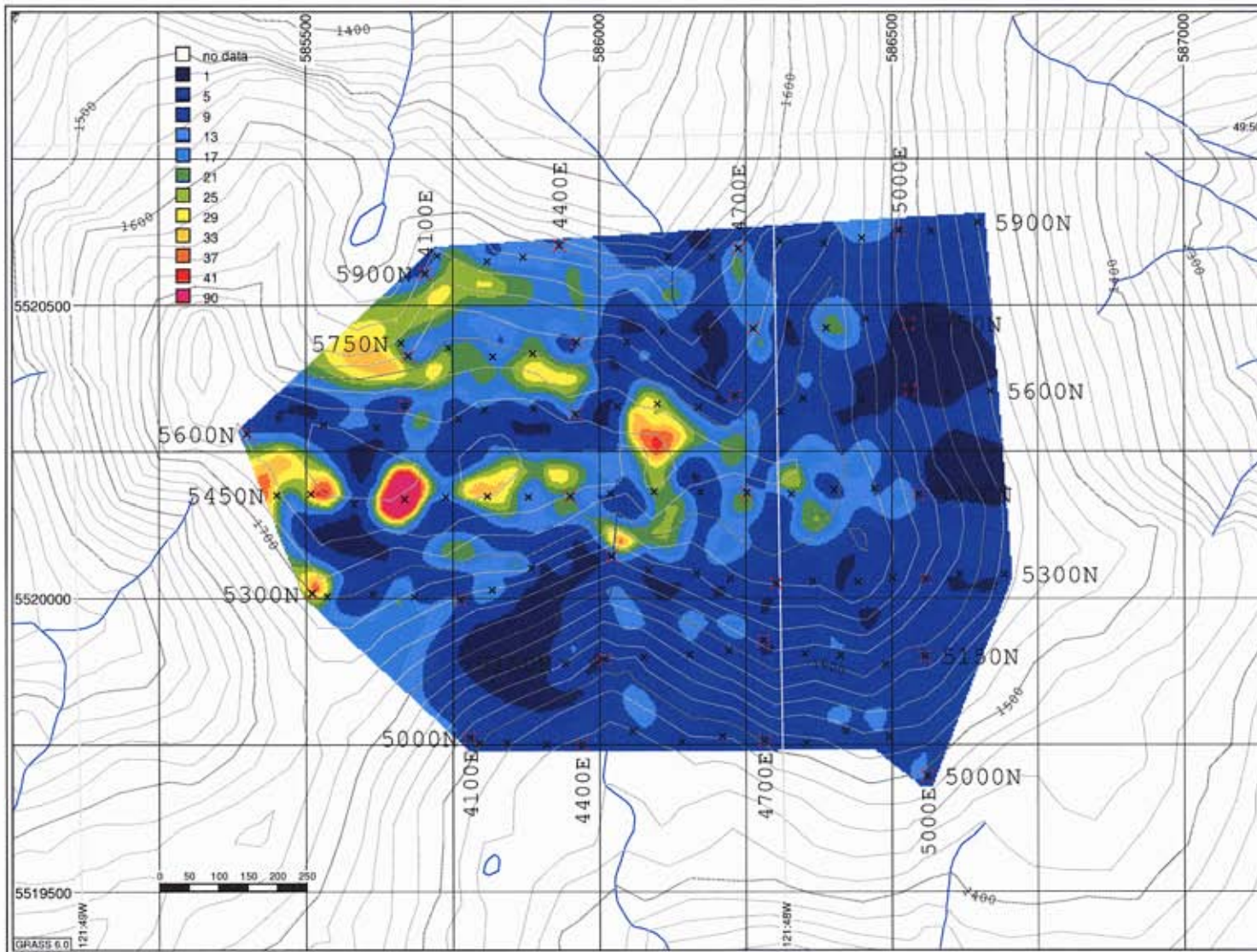
Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Oct, 2005

United Exploration Management Inc.
 The Crack Project 2005
 Scuzzy Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map

Depth 300 m Below Topography

Appendix 3b.
Alt Grid Chargeability and Resistivity Maps
Plates C-1 to C-8 and R-1 to R-8



Legend

- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

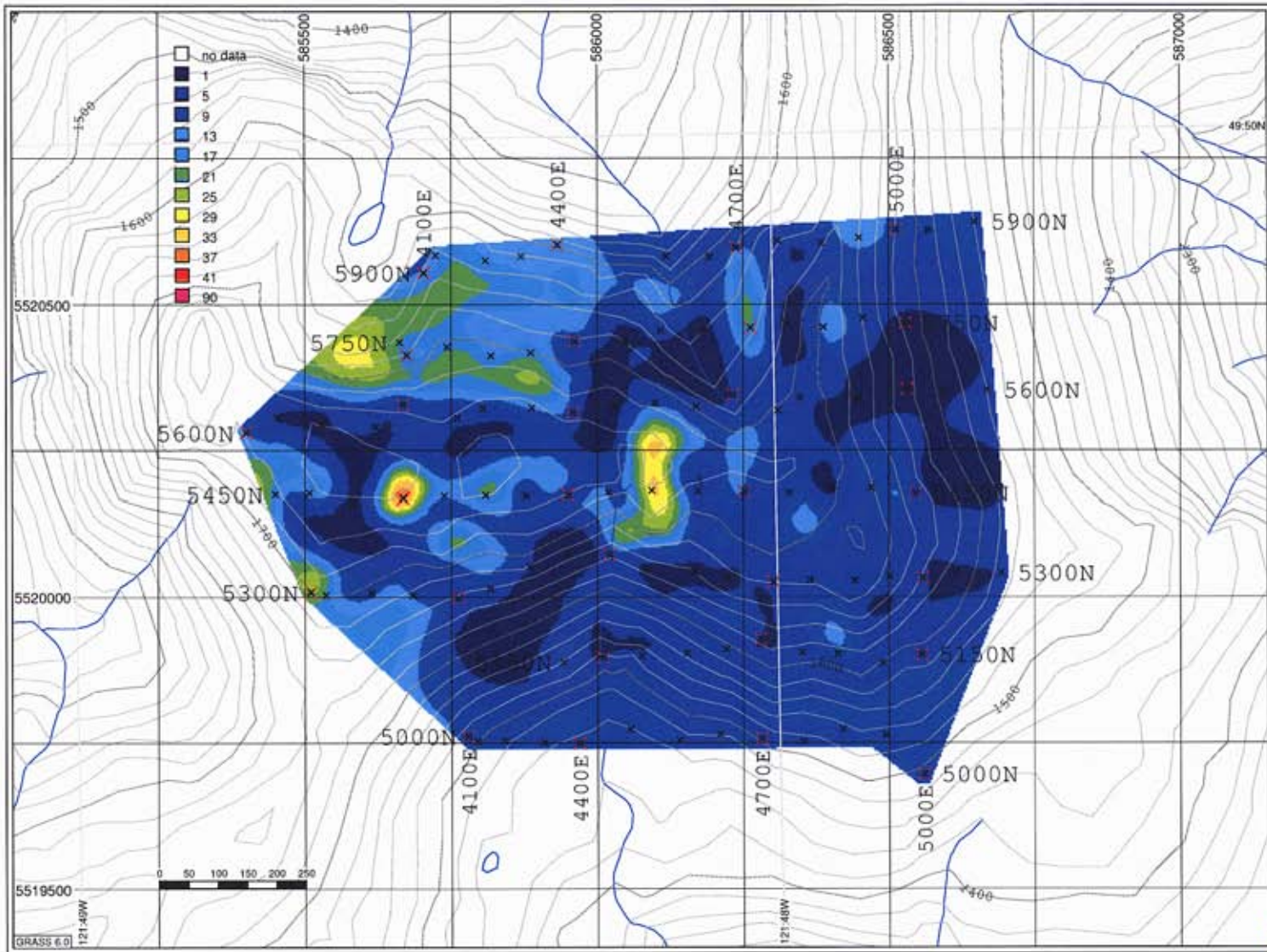
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Sep, 2005

United Exploration Management Inc.
The Crack Project 2005
 ALT Grid
 B.C – Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map
 Depth 25 m Below Topography



- Legend**
- Contour Level
 - Rivers
 - Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GOD Tx

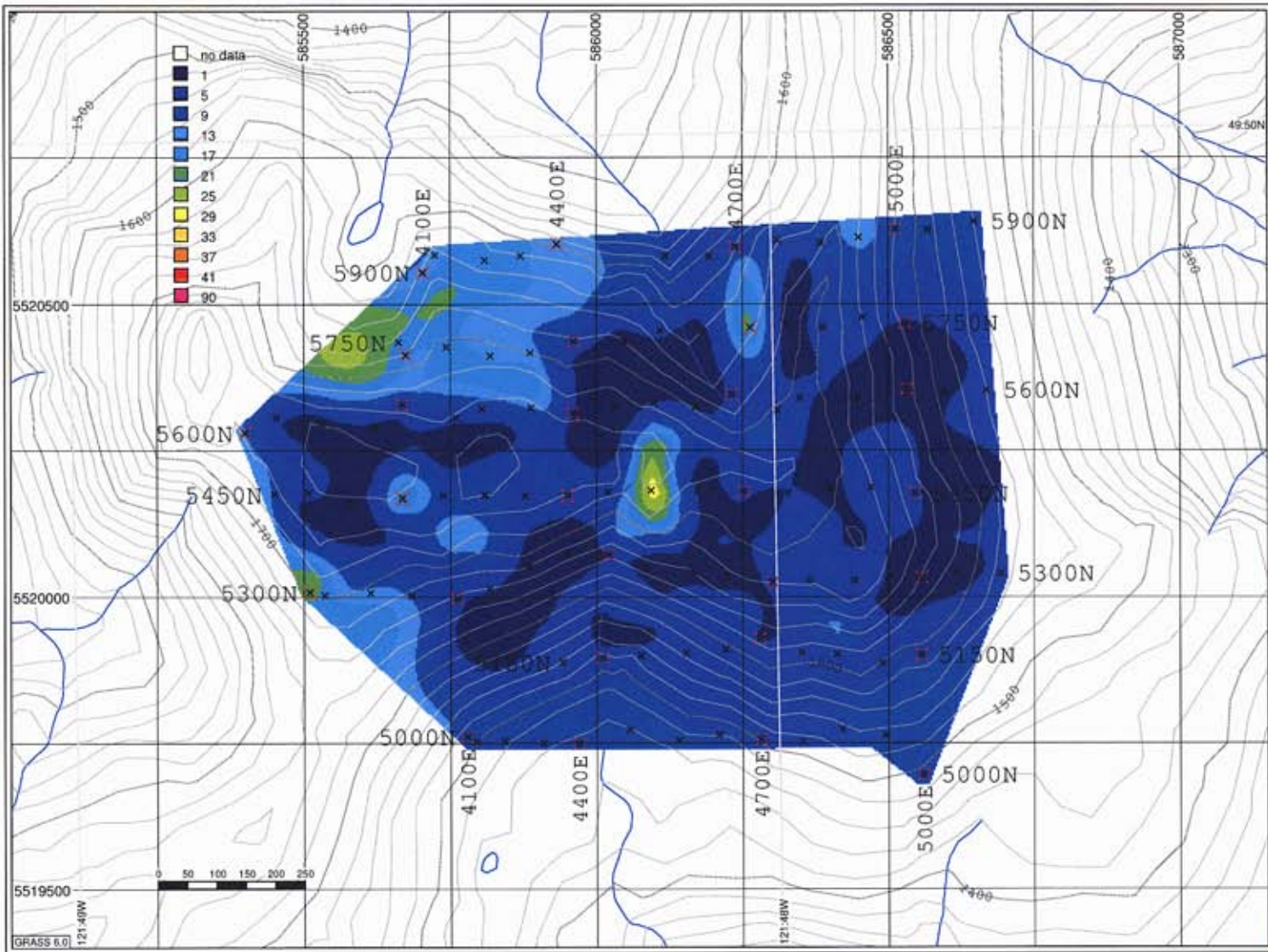
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map
 Depth 50 m Below Topography



- Legend**
- Contour Level
 - Rivers
 - Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GOD Tx

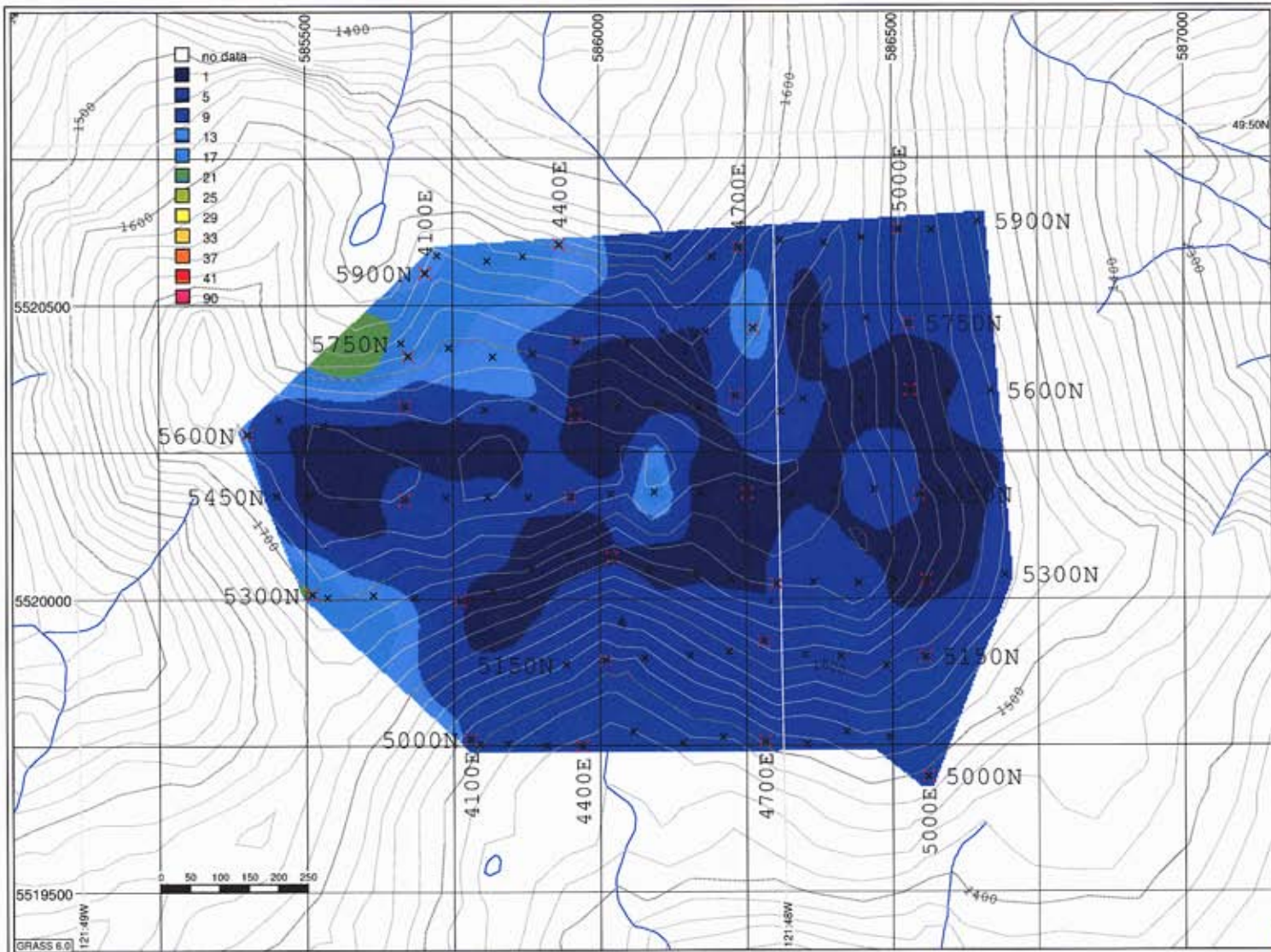
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
The Crack Project 2005
 ALT Grid
 B.C – Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map
 Depth 75 m Below Topography



- Legend**
- Contour Level
 - Rivers
 - Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GOD Tx

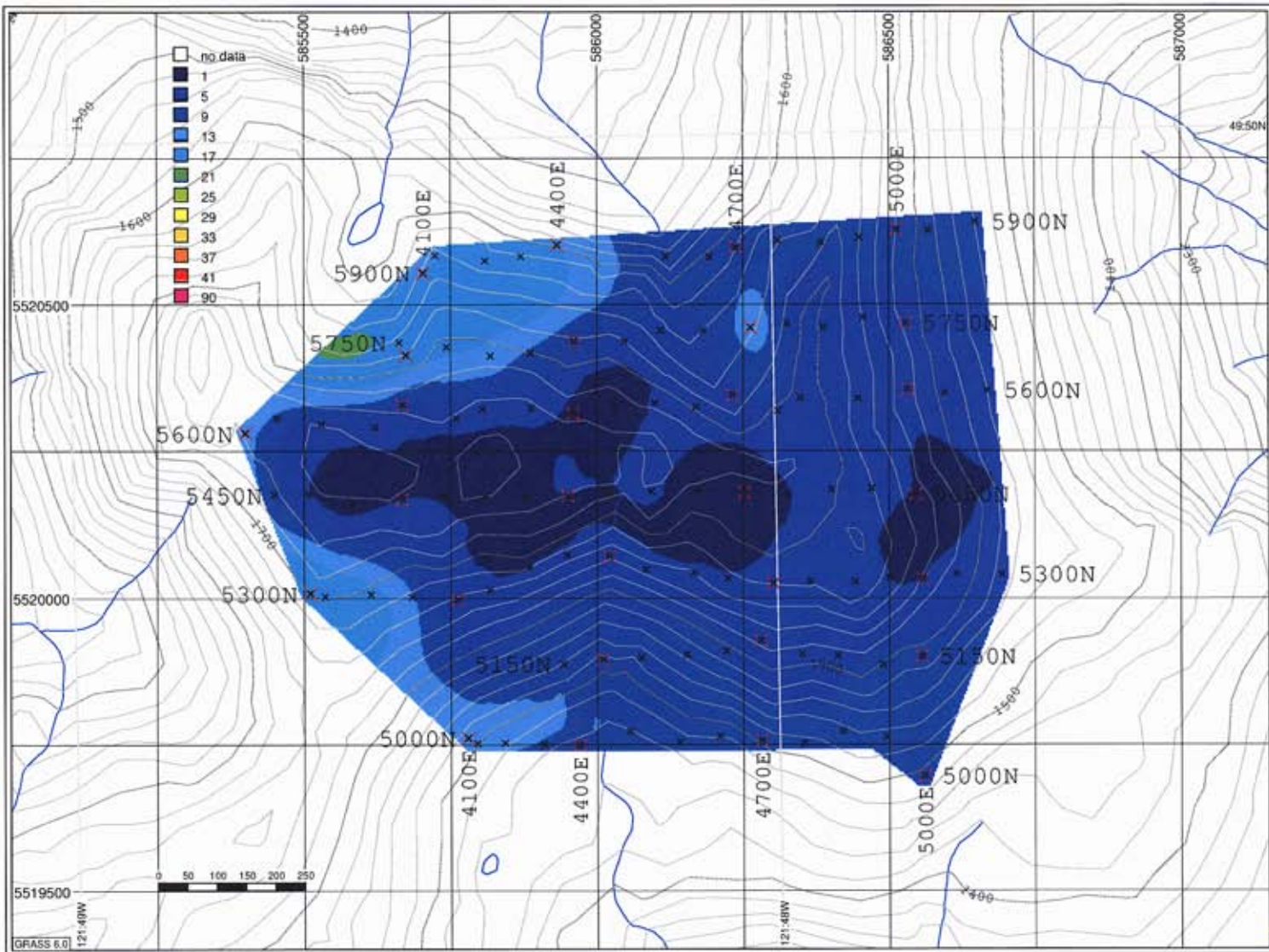
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Sep, 2005

United Exploration Management Inc.
The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map
 Depth 100 m Below Topography



Legend

- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

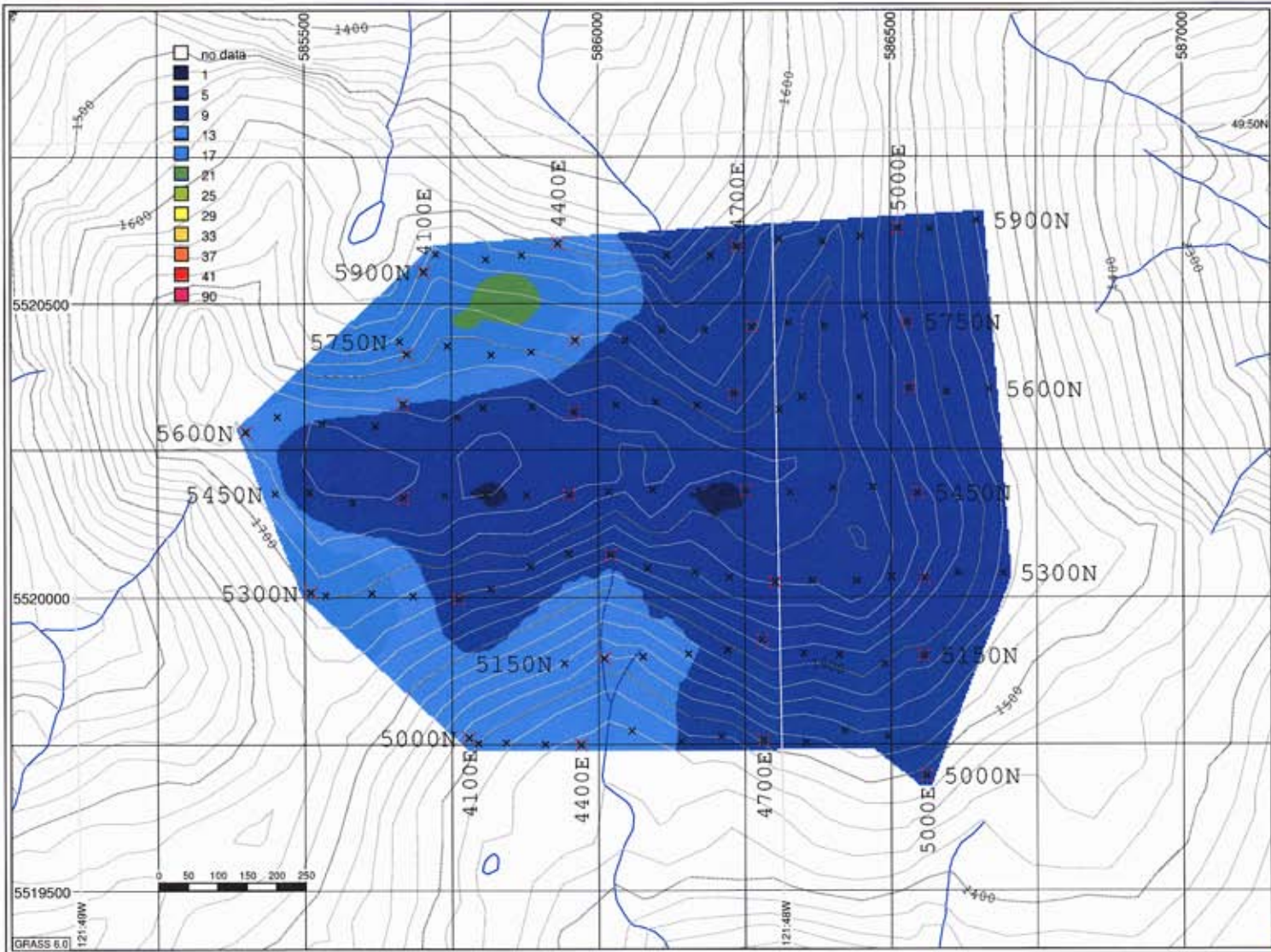
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminister
 Mapping Date: Sep, 2005

United Exploration Management Inc.
The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map
 Depth 150 m Below Topography



Legend

- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

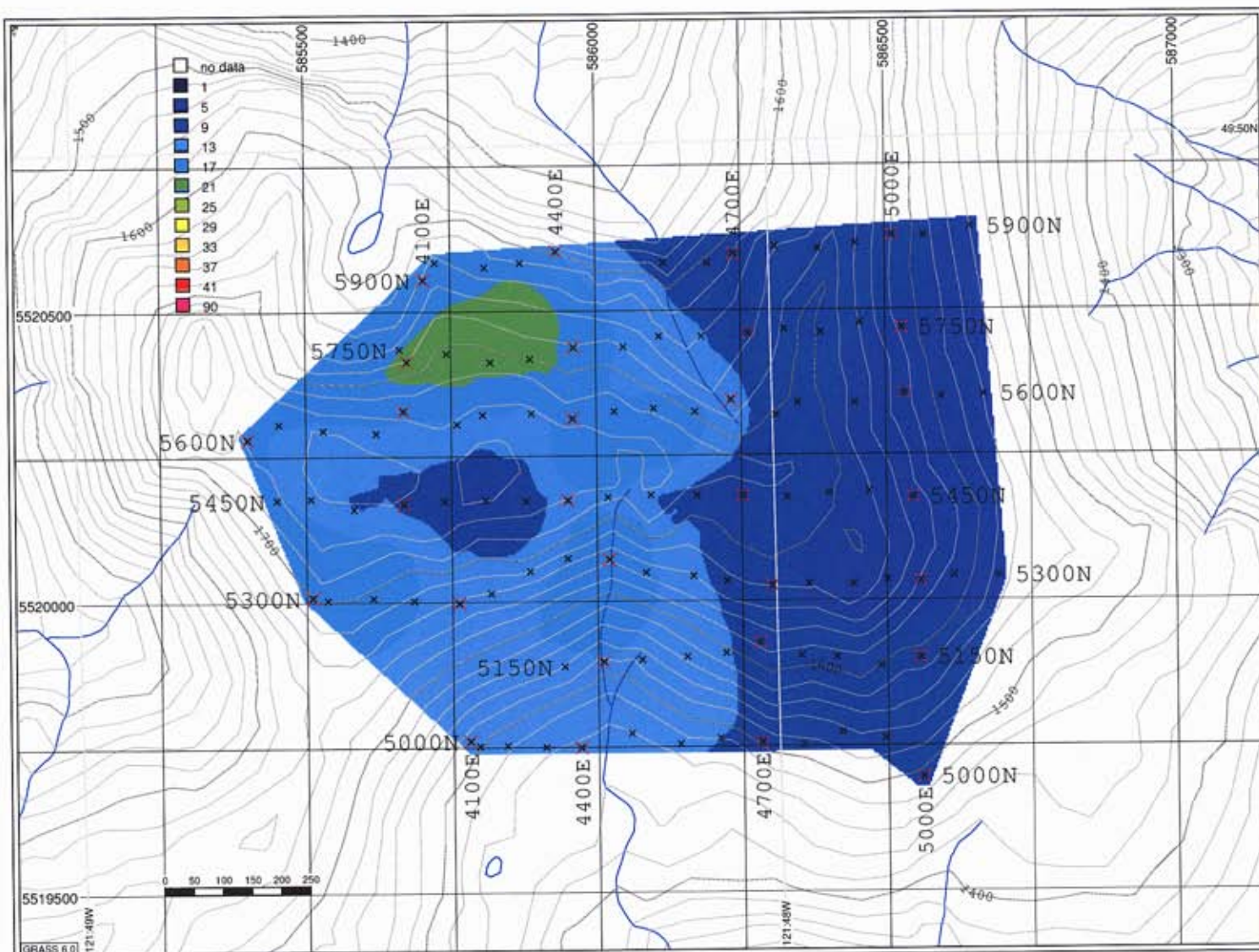
Typical Dipole Array:
 n = 8
 a = 75 m

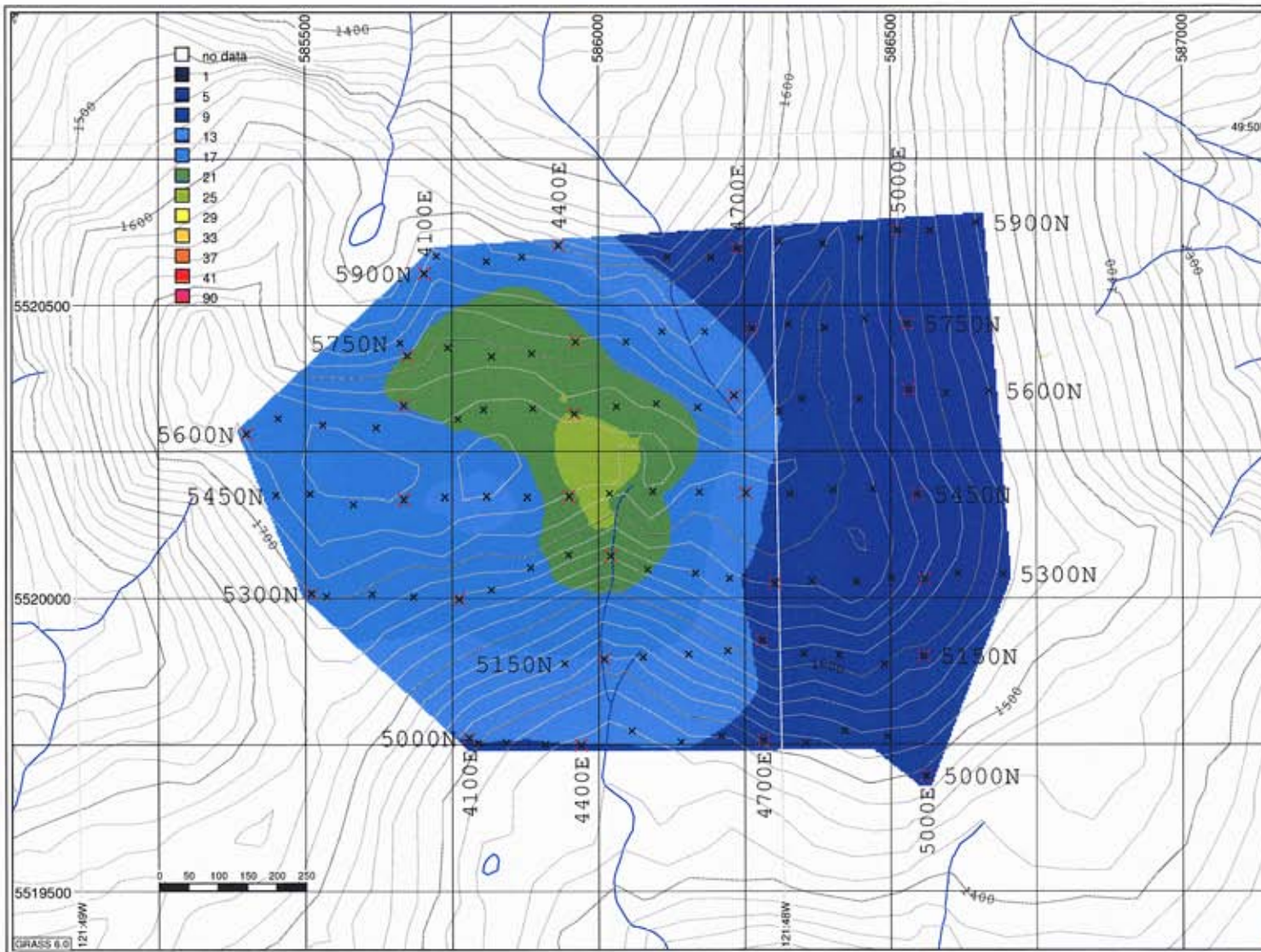
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: D92H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map
 Depth 200 m Below Topography





Legend

- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GOD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

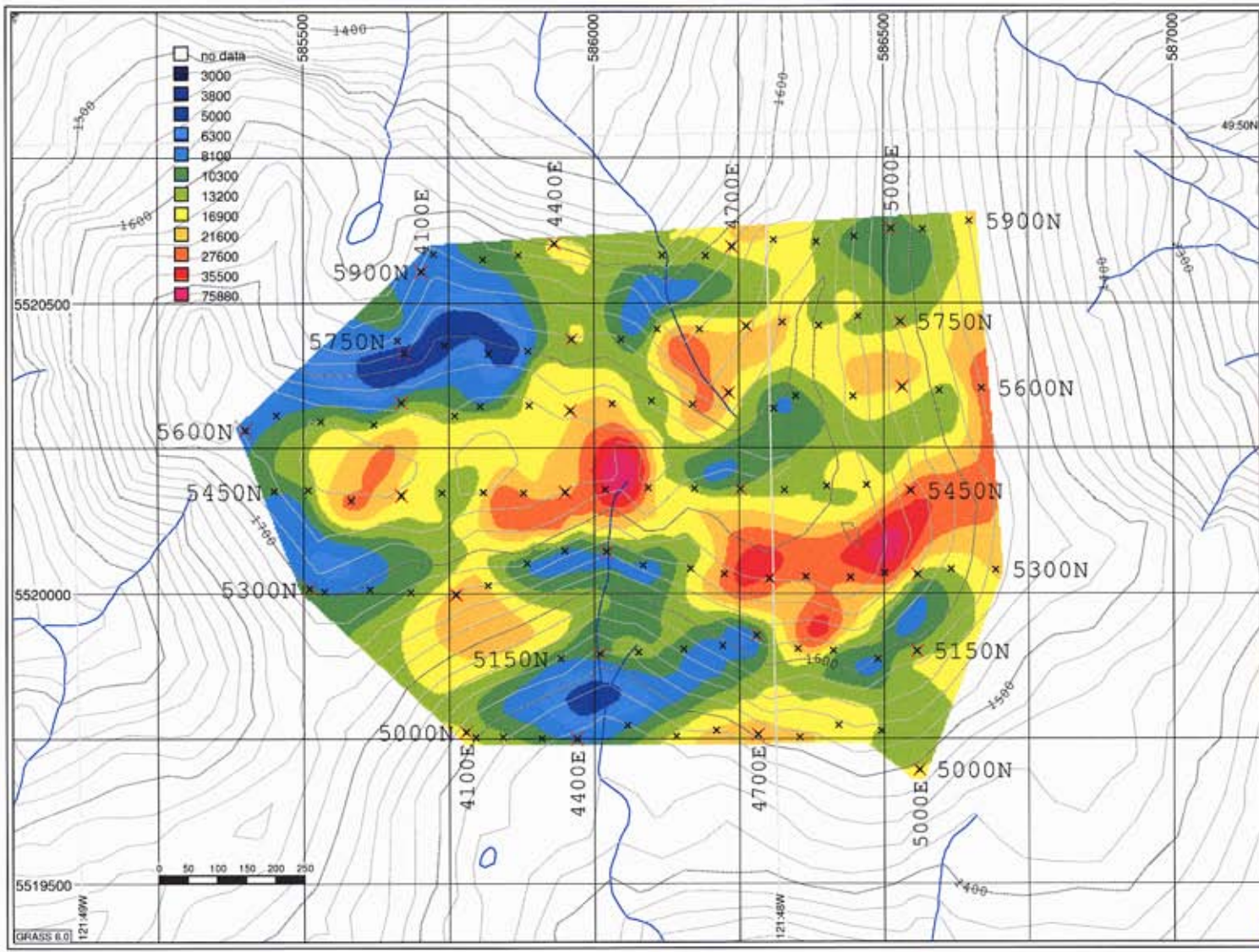
Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H061 / 92H062 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
 The Crack Project 2005
 ALT Grid
 B.C – Canada

3D IP SURVEY
 Inverted Chargeability (ms)
 False Color Contour Map

Depth 300 m Below Topography



Legend

- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

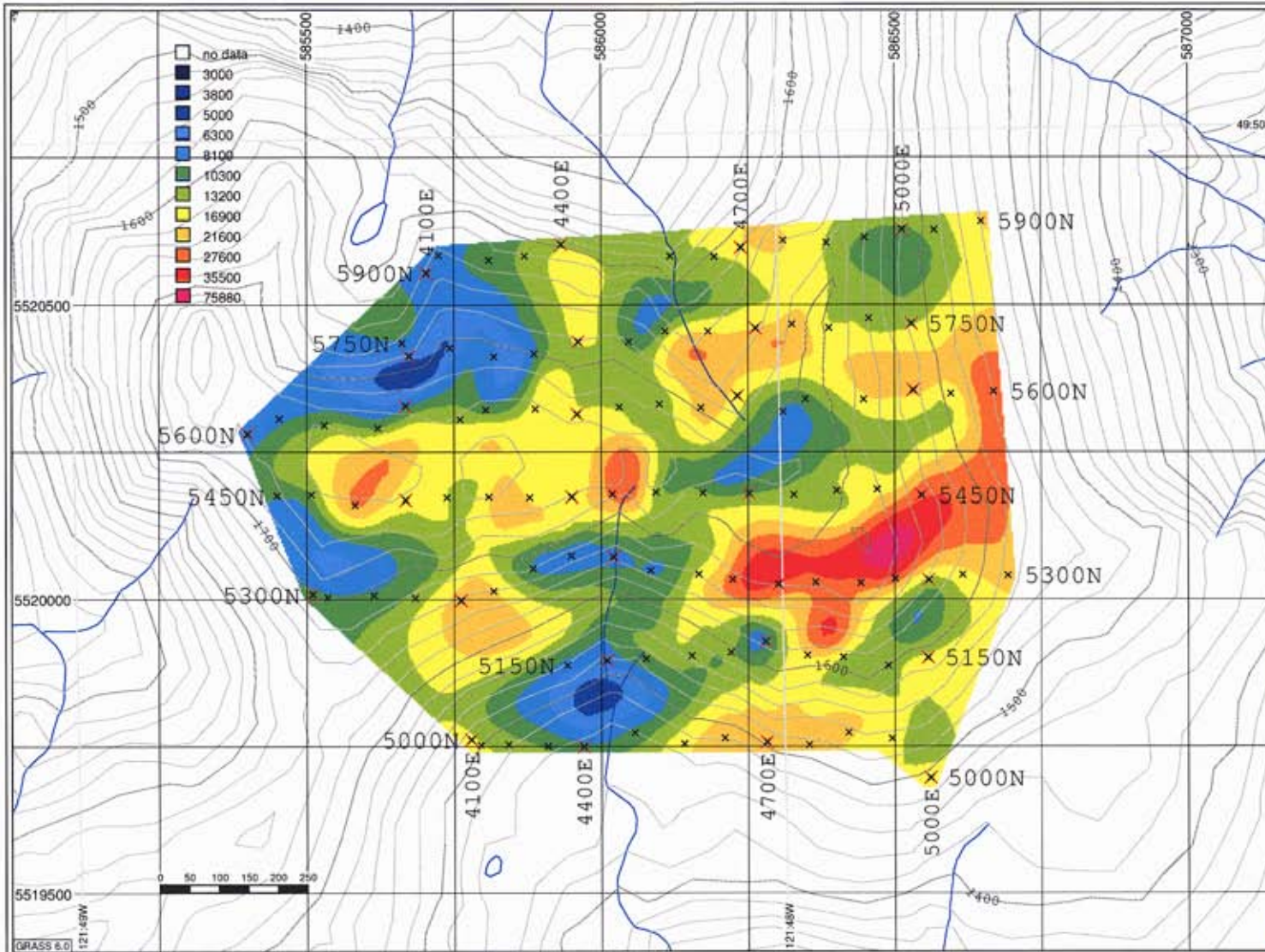
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 25 m Below Topography



Legend

- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

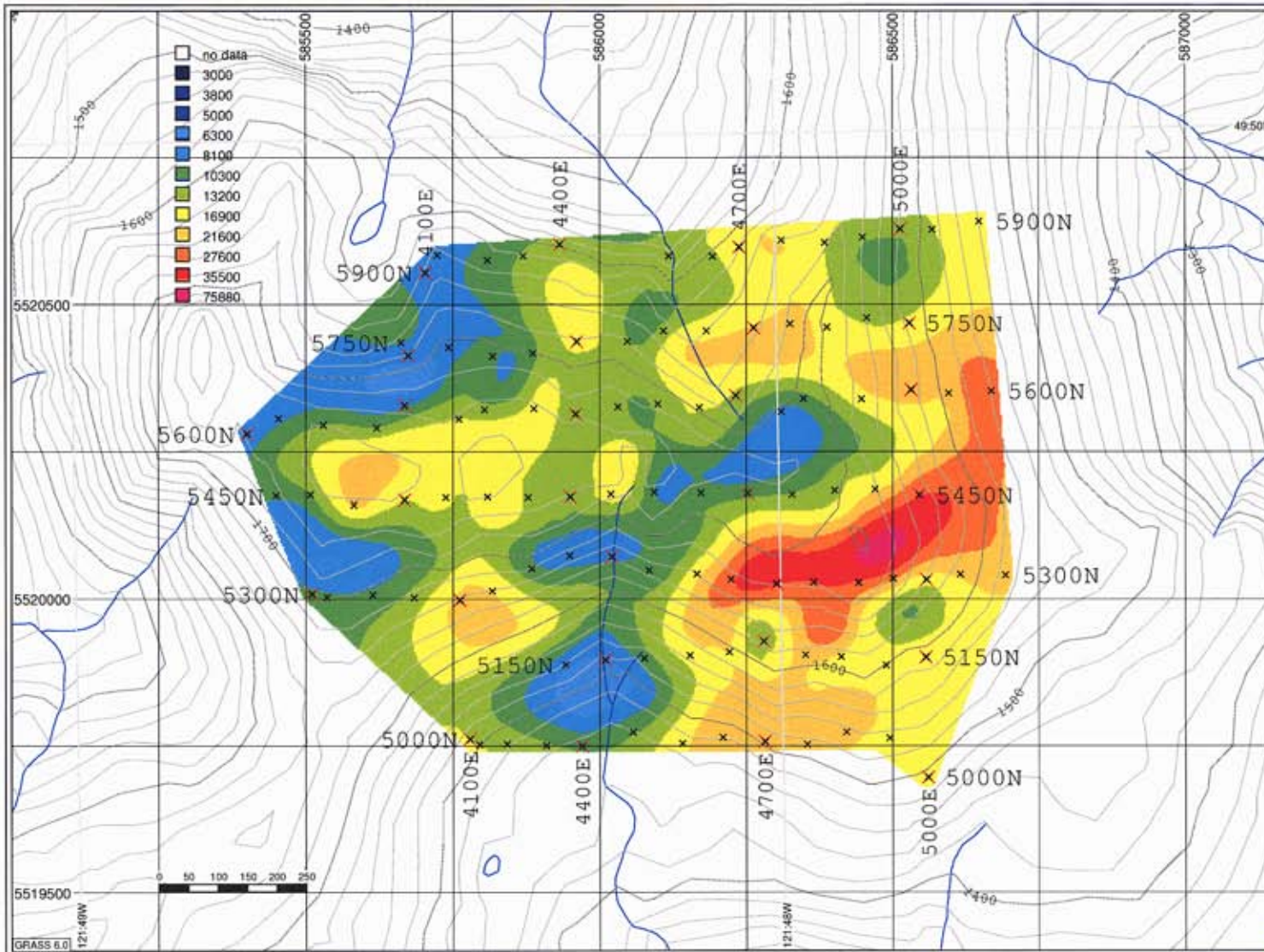
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: S.J Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 924081 / 924082 Sheets
 Mining District: New Westminister
 Mapping Date: Sep, 2005

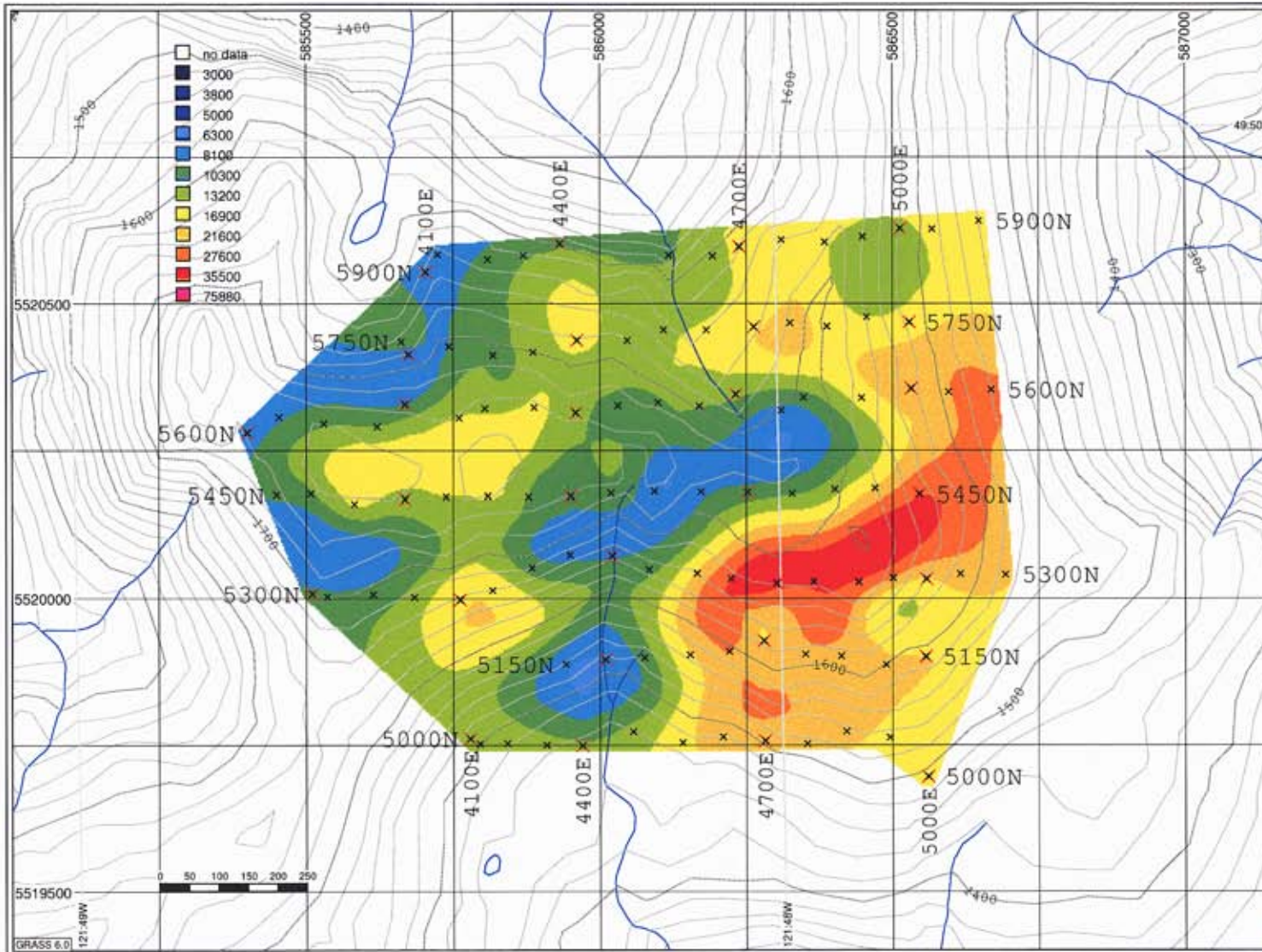
United Exploration Management Inc.
 The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 50 m Below Topography



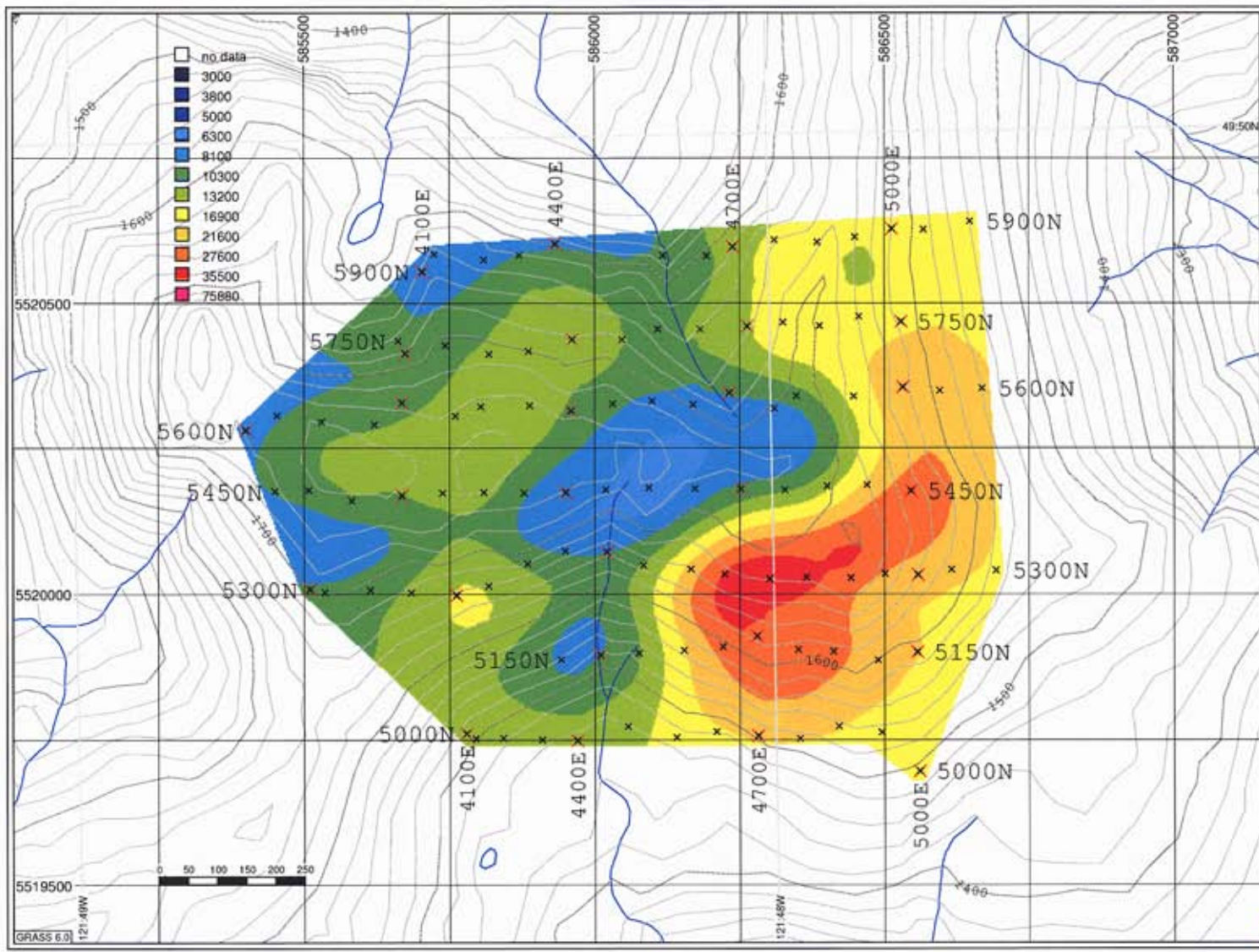
United Exploration Management Inc.
 The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 75 m Below Topography



United Exploration Management Inc.
 The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 100 m Below Topography



Legend

- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: S.J. Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

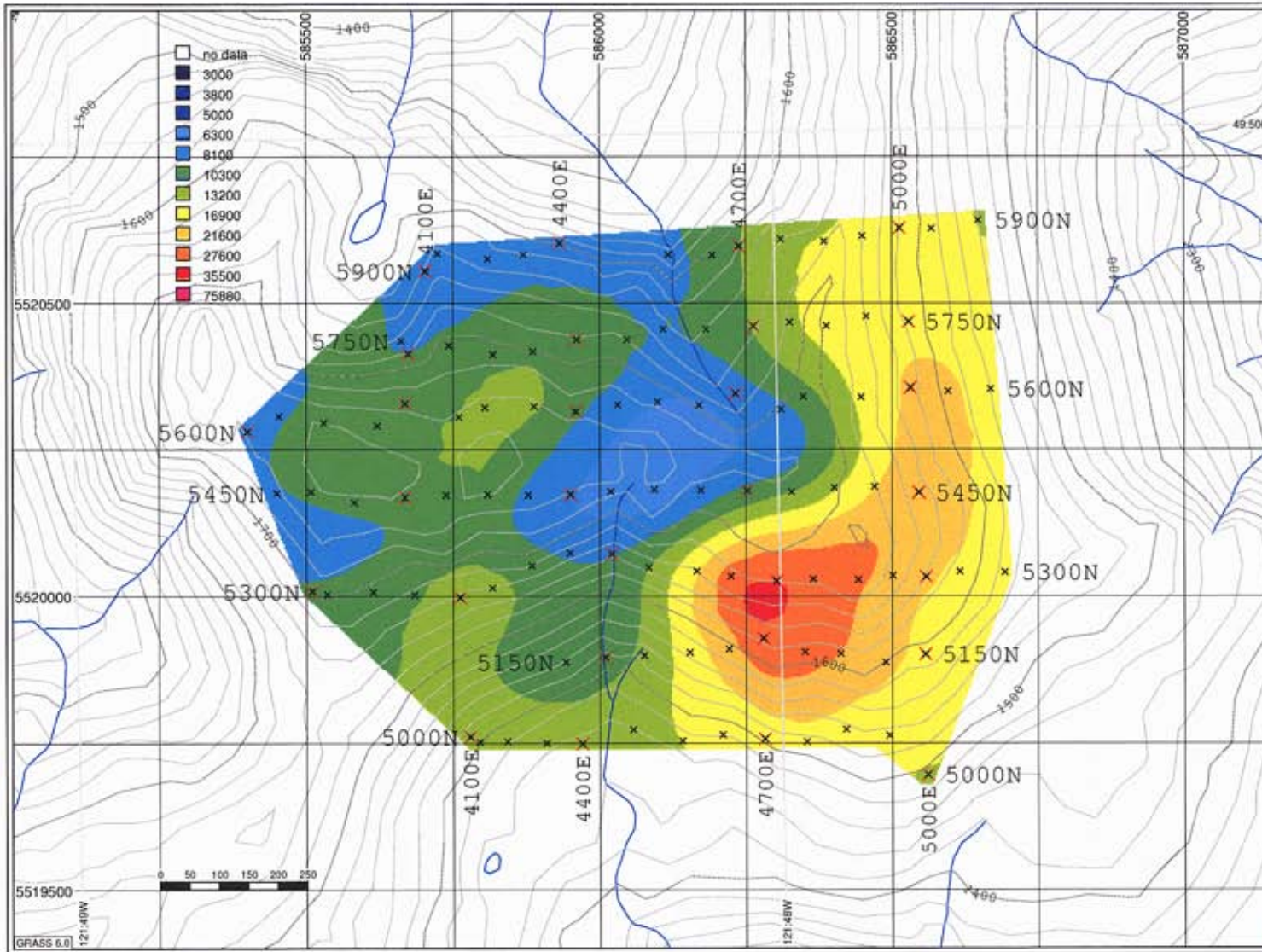
Survey by: S.J. Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
 The Crack Project 2005
 ALT Grid
 B.C – Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map

Depth 150 m Below Topography



- Legend**
- Contour Level
 - Rivers
 - Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

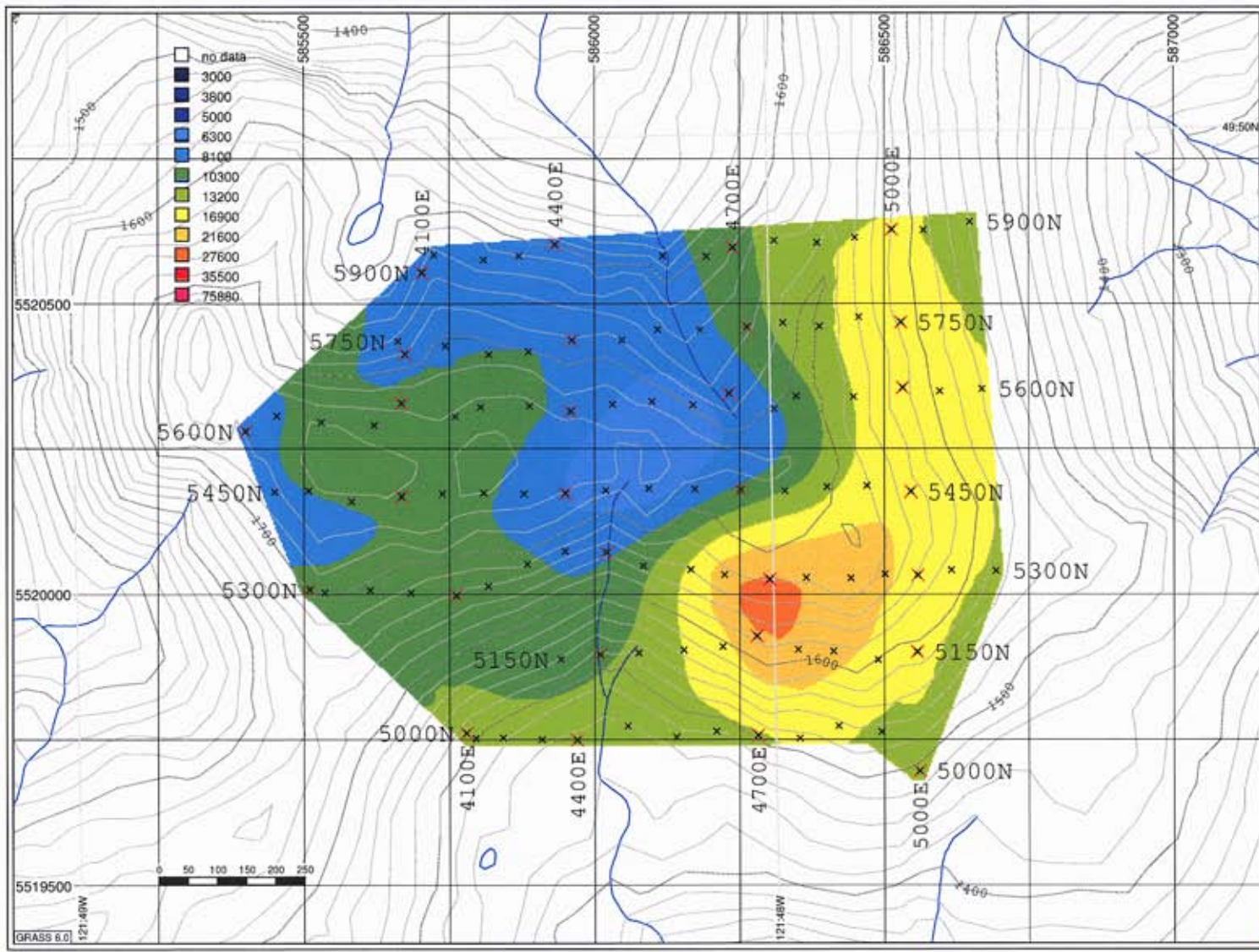
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: D92H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
 The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 200 m Below Topography



- Legend**
- Contour Level
 - Rivers
 - Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

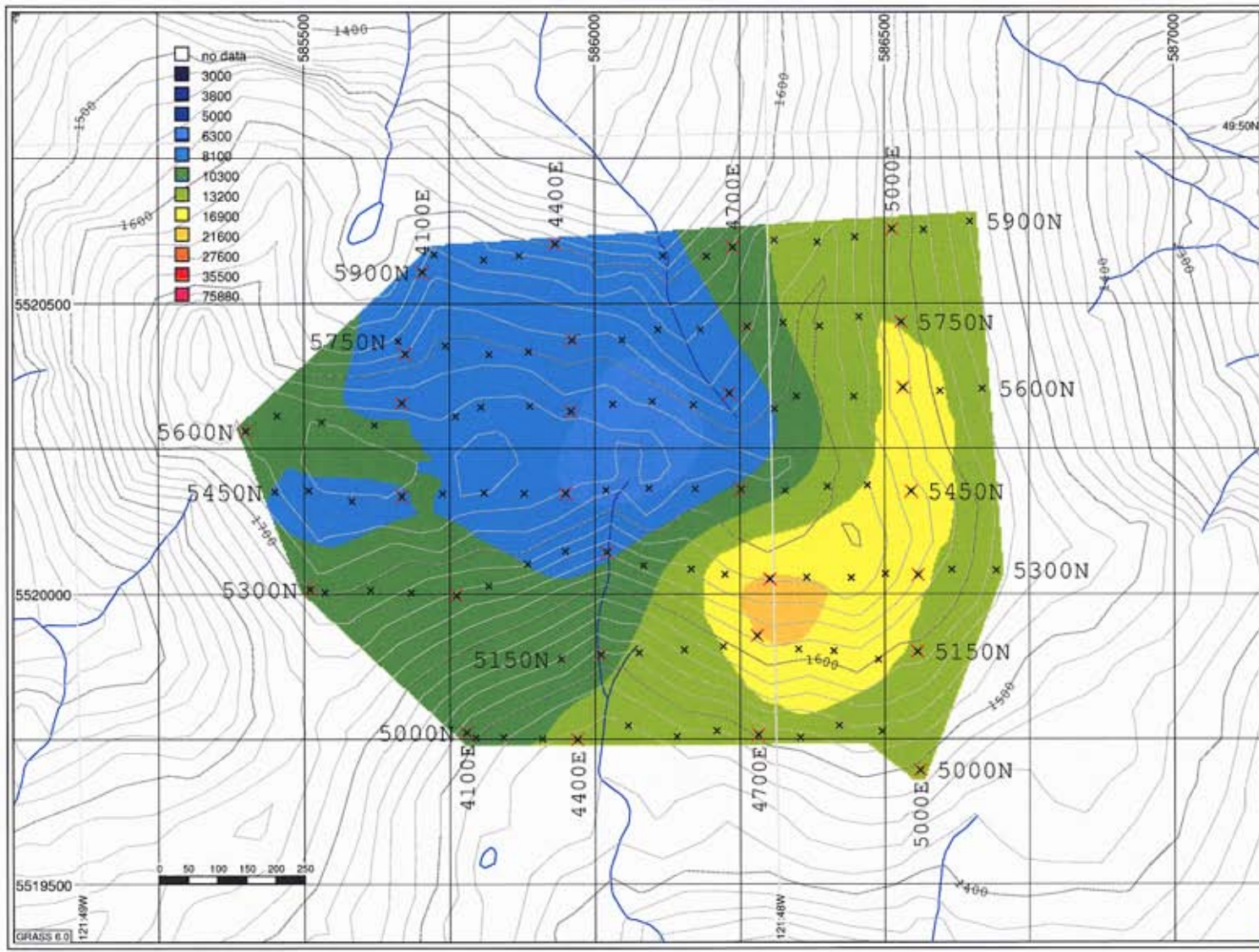
Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters – NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
 The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 250 m Below Topography



Legend

- Contour Level
- Rivers
- Lakes

Survey Information

Instrumentation:
 RECEIVER: SJ Full Wave Form Digital IP Receiver
 TRANSMITTER: GDD Tx

Typical Dipole Array:
 n = 8
 a = 75 m

Survey by: SJ Geophysics Ltd.
 3D Inversion by: S.J.V. Consultants Ltd.
 Processing Date: Sep, 2005

Projection: UTM meters - NAD83 Zone 10
 NTS Sheet: 092H13
 Topographic Map: TRIM-BCData Source 1:25,000 scale
 92H081 / 92H082 Sheets
 Mining District: New Westminster
 Mapping Date: Sep, 2005

United Exploration Management Inc.
 The Crack Project 2005
 ALT Grid
 B.C - Canada

3D IP SURVEY
 Inverted Resistivity (Ohm-m)
 False Color Contour Map
 Depth 300 m Below Topography

Appendix 4.
Statement of Costs

STATEMENT OF COSTS
UEMI - Crack Moly Property

Re: Exploration Program August 1 - September 15, 2005

Wages / Personnel

G. Nicholson	10 days @ \$385/day	\$ 3,850.00
R. Krause	4 days @ \$385/day	1,540.00
D. Deering	1 days @ \$300/day	300.00
C. McMillan	5 days @ \$185/day	925.00
I. Somers	9 days @ \$275/day	2,475.00
R. Belanger*	8 days @ \$286/day	3,432.00
W. Penney*	12 days @ \$234/day	2,808.00
E. Claassen*	12 days at \$171.60/day	2,059.20
R. Simpson*	11 days @ \$312/day	3,432.00
C. Hill*	9 days @ \$182/day	1,638.00
M. Mulberry*	6 days @ \$312/day	1,872.00
B. McMichael*	4 days @ \$213.20/day	852.80
B. Vallee*	3 days @ \$286/day	858.00
G. Barton	4 days @ \$275/day	1,100.00
Subtotal		\$ 27,142.00

(Note: * daily rate includes 4% Vacation pay)

Management Fee @ 10% 2,864.20

Equipment Rental

(2) 4x4 Truck	2x24 days @ \$90/day	\$4,320.00
Camp and Supplies (radios, sat phone)		3000.00
Office, Overhead		1500.00
Subtotal		\$ 8,820.00

GST @ 7%	2,717.83
EIC, CPP, WCB Shortfall	2,193.29
Subtotal	\$ 4,911.12

Expenses

G. Nicholson (lumber, misc. field supplies)	\$9,907.64
B. Krause	1,069.48
E. Claaseen	113.85
B. McMichael	1,488.59
Subtotal	\$ 12,579.56

Contract Services

ALS Chemex (VA05073284) 132 rocks	3,092.82
Geophysical Surveys (SJ Geophysics)	
IP Survey invoice #'s, 5349, 5567, 5578	53,090.16
Helicopter (incl. fuel)	30,504.36
Subtotal	\$ 86,687.34

Total 2005 Exploration Expenditures \$ 143,004.22