

SURVEY LOG

BCG-8533-YT BC Gold Carmacks IP

CREW: Crew chief Steven Kramar June 13 - July 12 /2008
 Tech Luc Harvey June 13 - July 12 /2008
 Helper Mike Krause June 13 - July 12 /2008
 Helper Dan Mawhinney June 13 - July 12 /2008

Date	Grid	IP/DC Resistivity		Total	Survey type #2		Total	Work	Remarks
		Lines	Stations	(line-km)	Lines	Stations	(line-km)	Hours	
June 13 2008	WS							10	Crew mobed into camp, Location 413922E 6910488W (NAD83 Zn7N) Camp was set up survey will commence June 14. Weather was acceptable, mild rain for short periods. Helicopter used was Jet Ranger from Trans-North, (Dick was pilot) 5 Sling loads and 2 Internals needed. Celeste was driver, used rental truck.
									Expenses: A few items were needed to be purchased, light grocery items+snacks, (Porter Creek Super A - \$43-81) batteries and bear banger pens (Tatchun Centre, Carmacks - \$163.45) Fuel at Carmacks (Sunrise Services Centre - \$177.78) The fuel was on an Aurora account, and the rest was paid by debit card by Steven.
									Notes: Dick @ Trans North (867)863-5551
June14 2008	WS	155000N	11000 13000	2				10	Immediate problem: The grid given by the office, is wrong compared to what is on the ground. Camp location on ground is at the end of line 15500, and when plotted by map provided we are claimed to be 800m up the line 15500 (going east). Survey crew will start on line 15500, and await coordinates from office or further instruction. Mike-Cables, Dan-Current, Luc-Reciever, Steven-Transmitter(not by choice)
									Radio communiucation may be an issue
June15 2008	WS	155000N	13000 14000	1					Very bad day for radio communication, needed dan(cables) and mike(current) to use as relay(s). Steven did the Rx, and Luc was on Tx. Production included finishing like 155000N, and packing and returning gear to camp. Awaiting further instruction regarding the grid issue.
June16 2008	WS	152000N	11000 12800	1.8					Geoff flew into camp, discussed the grid issue, started line 15200N. Steven(Rx) Luc(current) Mike(Tx). Production halted when radio communication was failing and ran out of current wire. (happened in tandum) Geoff demobed from camp at about 4:30PM.
June17 2008	WS	152000N	12800 13900	1.1					Luc(Rx) Steven(Current) Mike(Tx) Dan(Cables) Slight rain periods throughout the day. Radio communication was ONCE AGAIN an issue, and Steven was acting as a relay/current to get a radio signal to Mike. Line ended one dipole short of finishing as Rx ran out of batteries. Gear was packed to the start of line 152000N, and will wait till instruction from Geoff/Dave regarding line extensions and where to end.
									No GPS, Luc fogot it, needs to hike to the outer reaches of L 152N to collect last 500m of GPS points.

June 18 2008	WS							Raining in the morning, waiting for linecutters to put proper extensions in, Steven will hike to find a TRUE/PROPER line end, otherwise, standing by. Rain all morning.
								Linecutters flew into camp (Martin/Helper) at around 8:30AM, will cut extensions to the lines starting with 155000N.
June 19 2008	WS	152N	11600 10100	1.5				Finish up line 152N. Bushwacked 800m with current, to get to station 11800, from the current tie in at 11000. This ensures a full overlap of the array from previous days. Weather was mild, sort of cool with periods of no more than 15 minutes of thunder and lightning. Steven(cables) Luc(Rx) Dan(Tx) Mike(current)
								Note: It is MUCH easier to bushwack 800m unrolling wire, but to roll it is a headache.
June 20 2008	WS	155	10200 11600	1.4				Steven(Tx) Mike(Current) Dan(Cables) Luc(Rx). Current path is PROPERLY tied in for the rest of the grid, heading north after today. Heavy rain storm, survey stopped, restarted after dinner (6PM) to finish, when rain also stopped.
June 21 2008	WS	159	10200 111000	0.9				Luc(Tx) Steven(Rx) Mike(Cables) Dan(Current) Aftermath of line still in bushes of line 152, rolled up. Everybody had a bad day, current snapping bushwacking to the next line, cables tangling unrolling, open loop to walk.
June 22 2008	WS	159	11100 11200	0.1				Luc(tx) Steven(Rx) Dan(Current) Mike(Cables) Line set up, open loop found by Steven+Dan walking current path, then around 1PM, bear on line. around station 11200, start of the valley. Everybody called back to camp. Later, going to take missing GPS points, Luc seen the bear with cubs on line 152 station 13000.
								NOTE: Generators 1st oil change
June 23 2008	WS	159	11100 11700	0.6				Heavy rain from 7AM-9AM. Rained all day. Noise or signal error on machine, could have a leaking splice in wire. Steven(Rx) Luc(Tx) Dan(Current) Mike(Cables) Very low primary voltage, suspicious readings. Rain ALL DAY, for 15+ hours.
June 24 2008	WS	Line 159	11200 12800	1.6				Steven(Rx) Luc(Cables) Mike(Tx) Dan(Current) Problems solved, squirrels are really becoming an issue, as at least one open loop a day from those things chewing through the current path is frustrating. Dan and Steven stayed and finished the line getting into camp at about 11PM. Long day, needed to get off that line.(Finally)
June 25 2008	WS	Line 159 Line 162						Line moved over to 162N. Current moved, and cables set up. Again, with things ready to go, open loops. Approximately 5KM of current path to walk. Other than line moved, no production. Squirrels REALLY becoming annoying.

June 26 2008	WS	162N	10300 12300	2					Luc(Cables)Steven(Rx) Dan(Tx) Mike(Current) With one open loop at the start of the day, otherwise good production. Nice weather, bugs not bad, readings great with little noise all day. Dan and Steven walked the grid to line 141 and 147 to confirm they are cut to spec according to the map provided by BC Gold.
June 27 2008	WS	162	12400 13100	0.7					Steven(Rx/Line walker to find open loops) Dan(Tx/Line walker to find open loops) Mike(Current) Luc(Rx/Cables) Finished line 162, the north and heavily squirrel infested side is finished. Moving south until transmitter relocation. Only one open loop to start the day.
June 28 2008	WS	149	10200 11000	0.8					Steven (Rx) Mike (Tx) Luc (Cables) Dan (Current) Helicopter Resupply (Dick with Transnorth; Bell Jetranger II) Food and supplies at 10:45AM. Mike and Luc rolled up stray wire on 155 and 152. Steven and Dan rolled up current path from 162-152. Lunch at camp, and line set up by 6PM. Hail storm slightly before 6PM, light/moderate rain the rest of the night.
June 29 2008	WS	149	11000 12900	1.9					Steven (Rx) Dan(Current) Mike(Tx) Luc(Cables) 3 breaks in current path, line 149 finished.
June 30 2008	WS	147	10200 11200	1					Steven (Rx) Luc (Tx) Dan (Current) Mike (Cables) Minor transmitter relocation in AM, about 10-12m increase in elevation (antenna) and 100m closer to south facing lines. Line 147 finished, will call for helicopter support to finish line 135 and line 141.
									Note: Quite a long day, as all lines were cleaned up of wire to be ready for transmitter relocation followed by camp move.
July 1 2008	WS	141	9800 11000	1.2					Dan (Current) Luc(Tx) Mike (Cables) Steven (Rx) Rain, all morning and afternoon. Helicopter support at 9:AM to relocate Tx site. (413887E,6908740N) Line set up, swamp from 9800E-10000E. Possible current dissipation from very wet conditions. Problems with moisture in cable heads. 13:00 Heavy rain periods, storm clouds overhead, thunder close overhead, very high self potential on Rx.
July 2 2008	WS	135	10000 10300	0.3					Dan(Tx) Luc(Current) Steven(Rx) Mike(Cables) Logistics meeting in AM to discuss camp move, set up L135, walk current path to find open loops (2 chew throughs, 1 burn out as a result of chew marks) Line 135 on side hill, steep(50 degree side hill) Very hot, hard to walk with full pack of gear. 400m until everybody was exhausted.
July 3 2008	WS	135	10300 11300	1					Mike(Cables/Relay) Dan(Tx)Steven(Rx) Luc(Current) AM started with walking current path to cut out chew marks/throughs, and burn outs. Finished Line 135, packed sling and will call for helicopter support to move Tx site to redo last kilometer of line 162. Camp move expected on the 5th to Copper grid. (Cannot be done today as helicopter is booked for a Minto Mine job move.
									Note: Again 2.5 kilometer round trip to and from L135, elevation change of approx 125m.
		162	12000 13200	1.2					REDO: Steven(Rx)Luc(Current)Dan(Tx)Mike(Cables) Last kilometer of line 162 redone, packed up camp for helicopter to move to "Copper" Grid.

July 4 2008	WS								
July 5 2008	WS & Copper	0	0						Mobe Day, Camp moved to Copper grid, (408353E,6913862N) Was expected camp move at 9AM, but fogged in till after 11AM. Camp moved by Dick from Transnorth, (Bell Jetranger II) 5 Slingloads and 2 Internals.
July 6 2008	Copper	106	10200 12800	2.6					BEAR overnight. Bear came into kitchen/transmitter tent overnight, dragged a cooler just outside of the tent until it got stuck in trees, opened electronic cooled cooler, ate ziplock bag of porkchops also dragged into bushes just outside of kitchen tent. Not aggressive at all, was hanging around till 10:30AM, came back twice after bear banger and shotgun fired near him. Spooked after a round was fired in the dirt in front of him.
									Otherwise great day, nice weather, no equipment problems, not a single squirrel.
July 7 2008	Copper	106 104	12800 13400 10200 11000	0.6 0.8					BEAR overnight. Kitchen Tent damaged, (Pictures appended to the digital version) All meat eaten, some dry good eaten. Including: 2 packs sausages, 9 steaks, 2lb hamburger, 2lb stewing beef, 60 eggs, 8L milk, 2 pack bacon, 2-3lbs bread, 2 packs breakfast sausage, 4 packs lunch meat. Survey halted at 5:30 when Mike(Tx) saw bear hanging around camp and would not scare.
									TIMELINE: approx 5PM, bear in camp, approx 6PM Steven shot round into bear, approx 7PM went looking for bear no trace, trail of food in bushes.
									Luc(Cables)Steven(Rx) Dan(Tx) Mike(Current) With one open loop at the start of the day, otherwise good production. Nice weather, bugs not bad, readings great with little noise all day. Dan and Steven walked the grid to line 141 and 147 to confirm they are cut to spec according to the map provided by BC Gold.
July 8 2008	Copper	104	11000 13400	2.4					Steven(Rx) Luc(Tx) Dan(current) Mike(cables) Good production, nothing significant to report.
July 9 2008	Copper	102	10200 12300	2.1					Steven (Rx) Luc(Tx) Dan(Current) Mike(Cables) Helicopter at 11AM to shoot bear, Transnorth (Bell Jetranger III) Kiwi pilot, RCMP, and conservation officer. Did not introduce themselves, no names. Landed in camp, took doors off, flew unnecessarily close to sleep tent damaging pole, Shot bear, (8 rounds, 30 minutes later) and landed once more. Instructions were to leave the bear, and do nothing.
July 10 2008	Copper	102 100	12300 13400 10200 11600	1.1 1.4					Steven(Rx) Luc(Current) Dan(Tx) Mike(Cables) Nothing significant to report.
July 11 2008	Copper	100	11600 13400	1.8					Steven(Rx) Luc(Current) Dan(Tx) Mike(Cables) Finishes grid, nothing else to report
									Demobe to Whitehorse, Dick in camp at around noon, (Transnorth

July 12 2008	Copper									Bell Jetranger III) camp flown out to staging coordinates. Stephan driver, 1 ton truck.
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TOTAL 34.9
WORK DAYS = 26
STANDBY DAYS = 4