



32D04SE0169 42 HEARST

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DIAMOND DRILLING

Township: Hearst

Report No: 42

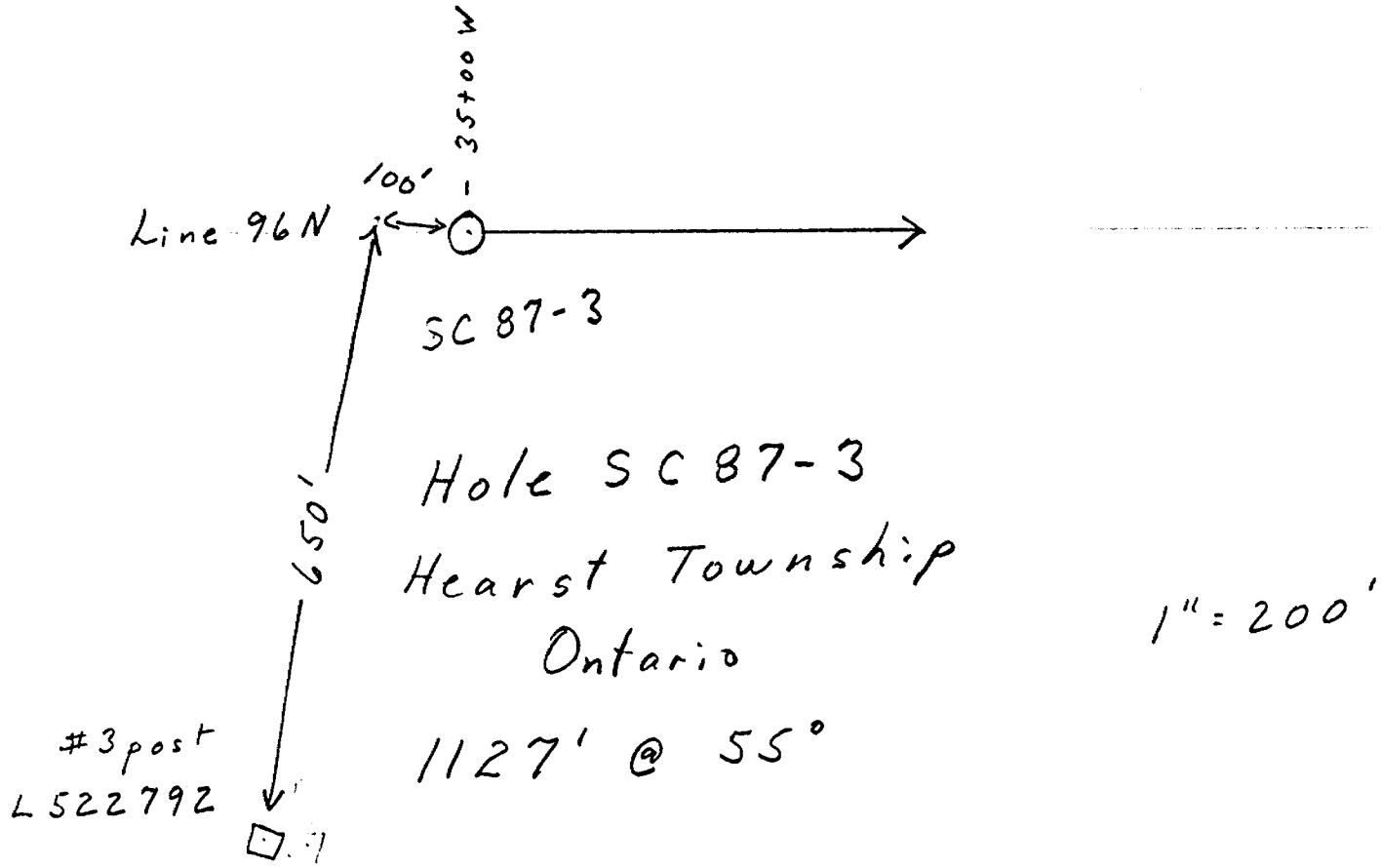
WORK PERFORMED FOR: Robert A. MacGregor

RECORDED HOLDER: SAME AS ABOVE [x]

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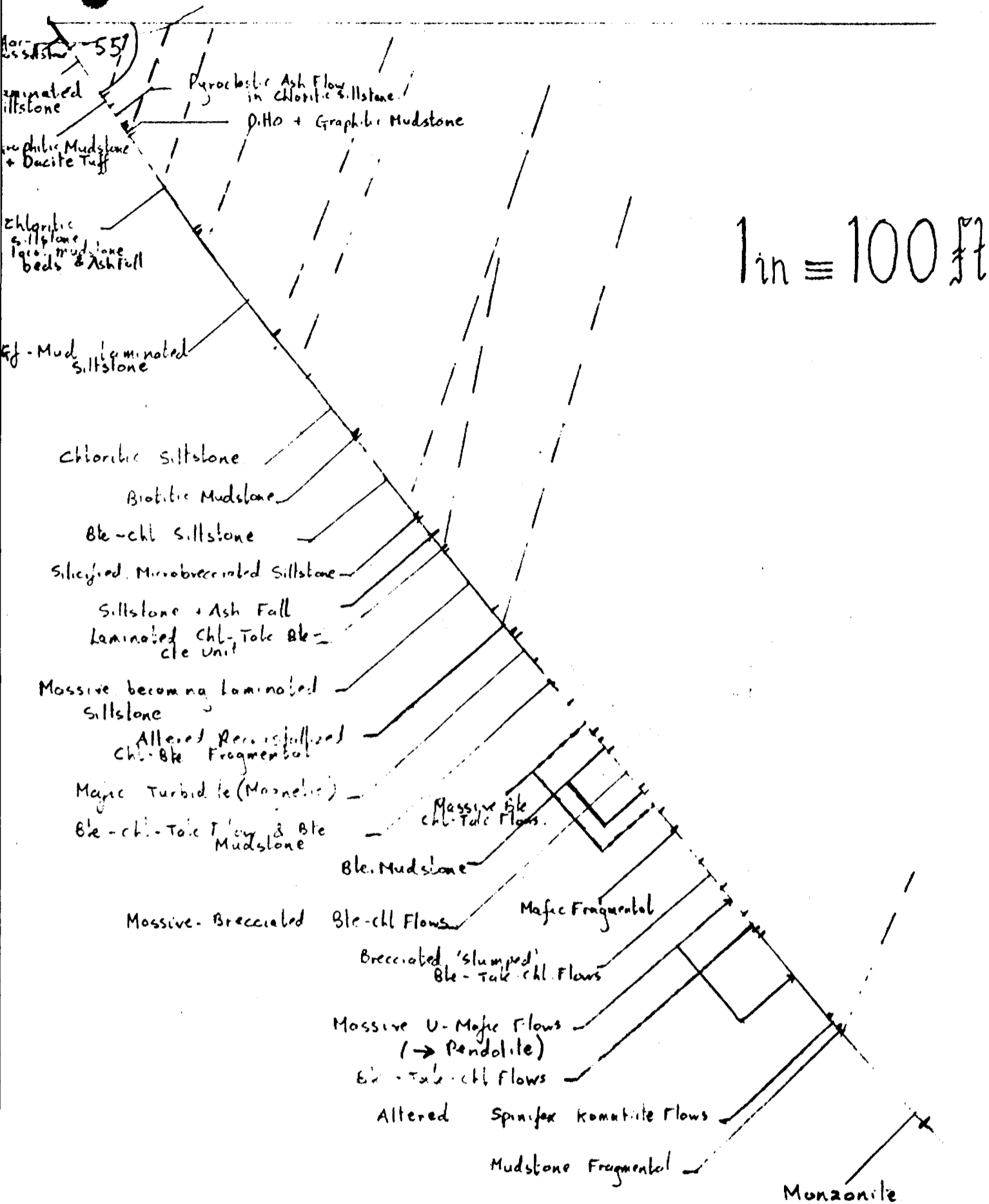
<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 522792	SC-87-3	1120'	Mar/87	(1)

NOTES: (1) #203-87(filed in August/87)



SC 87-3

L N. 35+00W



E.O.H. 1127

No SC 87-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:
 Rang : _____ Élévation Orifice: _____ Commencé le : _____
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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	A	Long.	% Py est.	% po. est.	Au. oz. T	V&R.
400.6	403.0	Biotitic Mudstone Carbonaceous fine medium grained sandstone to hypidiomorphic with tabular foliated detrital matrix supporting carbonaceous 5' ash fall shreds. Contacts are fine-grained, celled Tr. det. P.								
403.0	470.0	Biotitic arenaceous sandstone Various lithologies 3' chlorite, trace sulphides overall Sub units:- 403.0 - 410.5. Massive to poorly foliated arenaceous fine-grained with weakly calcareous matrix. Poorly chloritic. Trace sulphides. Non magnetic 410.5 - 418.1. Fine grained - arenaceous siltstone. Tabular to micaceous. (Biotitic) orientation with occasional bacterium. micaceous hor. every few cent. Laminae ranging from 1/2" 5' by volume. No trace of detrital sandstone term lenses. Non magnetic 418.1 - 422.0. Massive to poorly foliated arenaceous contains 3-5' thin massive arenaceous ch. & Fe-cemented lenses locally. micaceous Lenses zero to 1/2" - 1" celled to clefted with 1/2" to 1" detrital sandstone in matrix								

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES								
			No:	De	A	Long.	% Py est.	% ps. est.	As. est. T	Vérif.					
		crystals or carbonate lenses Randomly distributed less than 2" by volume, elongated well tabular sil-cis lenses Tr ^v des. Po & Py													
		453.75 - 463.0 Anorthositic laminated biotite Sillstone fine grained dark green thin medium grained units with large matrix fine grained biotite characteristic meso- or micro-crystalline sil-cis carbonate veins & enclaves disseminated throughout weakly silicified fine grained matrix acid siltstone													
		463.8 - 478.6 Massive laminated biotite laminated & contains many rounded dark sil-cis Relatively massive to weakly laminated sil-cis (ax) weakly carbonatized & usually contains the veinlets Minor streaks of calc. some zones up to 1/2" thick grey very fine grained sil-cis matrix within or between units & enclaves thin rounded to sub-angular sil-cis sil-cis													
1175.6	1180.1	sil-cis extremely fine grained disseminated sil-cis eyes or shards less than 1 mm diameter in a matrix grey silicified rhodochrosite matrix 1' des. sulphides													

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES						
			No:	De	A	Long.	% Py est.	% po. est.	As. est. T	Vent.			
		cut by epidote-calcite & subordinate carbonate - glz near hairwidth veinlets. sharp contacts above.											
1180.1	497.4	Siltstone & Ash Fall Grey, brownish-grey, massive, non-magnetic, sparsely carbonated, with minor disseminated dacitic ash fall porphyroclasts. Crudely ble. crystal foliated over a few cm. wide zones. Matrix is poorly chloritic. Massive below 484 ft & chloritic. Tr. diss. Py & Fe aggregates.											
497.4	501.8	Biogenic Siltstone Grey, poorly carbonated. A massive, brownish-grey, non-magnetic siltstone with biogenic laminae or nodules. Higher biogenic content than massive. Basal siltstone. Matrix is locally bleached with graphite ble. Calcite - mud infill. Tr. sulphides.											
501.8	514.1	Distal... siltstone Inhibits... carbonated... non-magnetic... contains... biogenic... becoming chloritic & locally... strong. C.A.T. 45: Trace amounts of... 2-3% cte. - glz &... wide.											

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES							
			No:	De	A	Long.	% Py. est.	% ps. est.	As. est. T	Vérif.				
		Matix carboné sporadique 1-2' (chb - chb)												
514.1	515.3	Laminated chb - Tale - Bte - Carbonate zone. Greenish-grey, well laminated locally brecciated. Comprises alternating laminae of chb - Tale & massive carbonate & Bte, as stringers in individual bedded planes. Brecciated by calcareous & argillaceous lenses of glz. with a few thin vein zones. 2' dur. sulphides sharp contact at 50'												
515.3	567.2	Massive chloritic carbonized siltstone low mass. fine grained to coarse green-grey fine grained, carbonized in a distinct network of carbonate - a bit of glz in places up to 2cm in d. enclosure/brecciation (infilling) of chb zones & sub-rounded chb clasts (siltstone matrix) Lower zone with distinct 1-2m dur. zone within silt matrix 525.2 - 527.7 zone of small sub trace lenses w a abundant, disseminated to parallel Bte (chb parallel to cor. axis or at 45° to it, over carbon). Matix is fine, green, open, argillaceous, dur. Bte	3-9	534	539	5.0								
			3-10	539	547.6	3.6								
			3-11	542.6	546.5	4.0								

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	A	Long.	% Py est.	% ps. est.	Au. oz. T	Vérl.	
		later up to 5mm lens (thin) with av. 1 to 3mm sharp, weakly slumped contacts 546.6-558.0 Fault rounded blocky calc. exhibiting minor solution surfaces as etchings & occasional carbonate-haematite. Non-magnetic Contact zones irregular but well as silty up to 5ft on silty side, weakly brecciated by carbonate or epidote-haematite veins. Fracture infill in some, than previous brecciated zones up to 1mm wide or less carbonated matrix here & part of some. Some non-micro-brecciated in some zones.									
567.2	571.8	Interbedded massive part all semi-oxidized siltstone & shale with carbonated systems Massive with diffuse contacts (partially slumped) Former is grey, partly chloritic non-magnetic with 5% felsic shales. Later contains distinct blk laths randomly oriented in a (blk)-silty matrix Lower contact part of zone for 1' or so	3-17	569.6	571.6	3.0					
571.8	578.0	Pyritic zone dominated by tabular siltstone. Non-magnetic, blocky with some ash fall. Matrix composed of altered (blk) mud beds & ash fall lenses. Matrix is grey silty. In some areas, part of zone with tabular									

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No.	De	A	Long.	% Py est.	% ps. est.	As. est. T	V&R.
		ash fall horizons with moderate to abundant clasts Py occurs as subhedral to euhedral grains in matrix. & composed of calcareous nodules which, individually, are up to 6 mm in diameter. Some massive over 1/4. Pyridiferous beds are biotite-graphitic 10' Py. Fr. Cp & Po Lower part of formation dumped blocky rather than laminated or banded.								
578.0	608.6	Chl - Bt. Matrix Metachertic Units, characterized by greenish to black beds of dark green to black color. Matrix supracrustal. Includes talc. Locally carbonized scoria & locally hematitic matrix. Some thin, brownish veinlets. Spinel bodies are small, rounded, unfractured biotite matrix. Lower units, with a reddish bed have iron matrix. Some 3-5% talc. Chert. Matrix are later, black, up to 6 mm, dense, & reddish in zones containing higher ash fall & chert. Matrix A third, massive, light green, amphibole & biotite altered amphibole. Matrix up to 6 mm, clear sub-idiomorphic, within a chl-amphibole matrix. Carbonate matrix. Contact in between a lower unit. Matrix up to 6 mm, dense, & reddish								

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	A	Long.	% Py. est.	% ps. est.	As. est. T	Vent.
		Flow or debris flow A large number of tabular to blk. crystals but impossible within subunits. At depth large tabular subunits 55° loc. A Overall 5% blk. of deformed - etc. - normal & replacement glz with granular recrystallized chl. clasts.								
608.6	630.1	Mafic - Ultramafic Fragmentary (Dufour). Green to dark green, fine grained massive to very poorly tabular, weakly magnetic. Mainly chlorite weathered to calc. & carbonated (microf. biotite, perovskite), supporting ragged to rustine biotite biotite. Unit contains thin beds of recrystallized recrystallized fine-grained massive blk. fragmentary Bew. 615.0. massive tabular, recrystallized 2-3' carbonates - glz veins / structures at 70-80 loc A (608.6-615). 5' 2 1/2' re-carbonated base of unit at 75 loc A (615-630.1) Quartzite Contact								
630.1	671.0	Blk. - Chl. - Tab. Flow & Interbedded blk. Mudstone Some ss. lenses Mudstones of dark green color								

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES								
			No:	De	A	Long.	% Py est.	% ps. est.	As. est.	T	V&V.				
		amounts of large calc. nodules in matrix, locally laminated with sil. bands. Bte.-chb. - Talc Flows are locally carbonized (etc). with a weak carbonat matrix & 2% iron ore, greenish veinlets, Dark green to dark greyish green massive fine-grained granitic little breccia on slumping. No chert flow textures to describe													
		Variable Diffuse Contacts													
671.0	707.0	Massive bit. matrix (Kornatite?) Massive with spinifer texture, locally but weakly carbonized (etc), within matrix + veinlets Carbonat matrix some occasional chb. & talc adjacent to veins, or in breccia of slumped zone. 2-3% calciferous veins, spinifer occasional 2% breccia of zone with minor shearing - small scale occurring every where here 5-15cm to describe													
		Diffuse Contacts													
707.0	718.0	Biogenic Mudstone Porous calciferous zone, weakly massive dark grey, fine-grained massive chloritic S-planes Contains chert and occasional laminae of talc Diffuse contacts													

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	A	Long.	% Py. est.	% po. est.	As. est. T	Vérif.
718.0	756.6	Massive - Brecciated Ultramafic Bt ch. Flows Localized fine grained. Weakly magnetic. biotitic. No spinifer observed. 3' cte in ch - tal - ch. veins, latter increase at depth. Matrix pervasively carbonated & contains speckled Brecciation is a product of irregular cross-cutting veining. Sharp lower contact								
756.6	762.0	(Biotite) Mudstone? Dark grey, massive or weakly carbonated CA. 5. 40-45% weakly magnetic. No slumping or brecciation. No talc. Fine grained biotitic 1' carbonated (cte). Sharp lower contact								
762.0	782.5	Massive Bt ch. Flows weakly magnetic. Contact low 2' fine grained & pervasive. Carbonated str. veins at 70' to c. h. 5-placed as ch. tal - tal. Contains irregular Bt Mudstones, weakly magnetic Dark grey. Diffuse lower contact								

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	A	Long.	% Py. est.	% ps. est.	As. est. T	Vent.
782.5	837.4	<p>Mafic Fragmental: siltstone 0.12 cm thick Eotritic Mudstone. brown fine-grained at both contacts & carbonaceous-punctate over within. 2' disseminated Pt. Sub-unit altered below to a chloritic, fine-grained fragmental containing small blebs (few mm), elongated in laminar at contacts: (782.7-785). Main unit is a non-magnetic, grey, fine-medium grained, recrystallized, bi-modal Mafic Fragmental, containing interbedded thin-grained massive Bt. chl. silty mudstone units up to 10cm wide, & possessing abrupt contacts. Fragmental is recrystallized with abundant randomly oriented Bt. in Bt. silty or unaltered thin tabular to bladed or acicular crystals up to 1cm in length (5mm). Local concentrations of crystals may produce a banding effect, note seen in width. Matrix is composed primarily of Bt. with minor silty mudstone & accessory calcite, & late (Bt. with) fine to medium grained 787.0-789.0 Brecciated or fractured zone with lenses, needles, blades of tremolite/actinolite along s planes. Pt. calcite nodules - basal to horizontal, with a width of 30°. 100 to 1cm thin less than 1mm and 1/2 Fe silty shale or occasionally basaltic</p>								

No SC 873

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne
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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No.	De	A	Long.	% Py. ext.	% ps. ext.	As. ext. T	V.M.
537.4	869.4	Brecciated slumped ble-tale-cht Flows only 11 calcite veins. Moderately chert with chit tale on tremolite-actinolite-chit. nodules. ble as chert infill or interstitial mineralization around blue-green line around talcose mat ble chit flows. Magnetite line around locally laminated (Ble-chit-actinolite recrystallized laminae). Diffuse contacts								
569.4	584.3	Massive Ultramafic Flow line around with local granular texture eg. 873.6-873.8. Magnetite throughout Brecciated over with a few calcite carbonate veins (1% by volume). Matrix is weathered, silicified & carbonized, composed of matrix of Ble-tale-cht. Unit contains lime to pale green sub-olivaceous line around near irregular feathered & common On a line scale, matrix contains an irregular matrix of white carbonate (ankerite or ferrocyanite) & a green ?-carbonate mineral. latter is crystalline 1' clear as observed sub-olivaceous, white streak H 4-5 (hardly scratched by knife). Resembles								

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES							
			No:	De	A	Long.	% Py est.	% pe. est.	As. est. T	Vit.				
		granular, very fine grained serpentine.												
884.3	907.1	Massive Ble-talc chl. carbonized flow 1-2' perovskite etc. Fe-carbonate or veined etc. Fe-carbonate ± chlorite + talc. Magnetic, dark grey to bluish-grey, fine-grained. 5' Ankerite - Serpentine as bands veins. No spinifex, brecciation. Minor small scale shearing. Tr. diss. Py												
907.1	911.6	Mudstone. Sharp upper contact. Fine grained. Non magnetic. moderately carbonized with charcoal, plants. Matrix impure, medium grained decussate biotite talc & subordinate sil. + corundum. Melanocratic Diffuse lower zone												
911.6	987.5	Pseudotite on altered Ble chl-talc flow Incl. in (911.6-919) a Ble-talc chl. perovskite & carbonized (etc) flow becoming massive dark grey magnetic with abundant oriented 3' Ble-chl-talc veinlets - 10' ? breccia to veinlets Matrix is fine grained granoblastic massive												

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES						
			No:	De	A	Long.	% Pyrot.	% ps. est.	Au. oz. T	Vert.			
		No visible olivine or serpentine. Talc confined to stringers (fracture fill!!) Diffuse contacts											
987.5	1000.0	Komatiite Spinifex zone Successive fractured, with infillings to hair-width to Perm wide anastomosing laminae or "feathers" (cf resettes from stress relief following blasting) of dark green pyroxene (with biotite diaphoresis). No crystallization of matrix. Locally matrix exhibits carbonate-talc rill alteration. Sphensite massive ultramafic composed of Biot (Mica Px) - Chertite. Spinifex texture developed at depth with alteration of matrix to chlorite, quartz, calcite, talc, but very thin "bleb" laminae which occur randomly throughout and exhibit a moderate oscillation of 65° to 90° on cross-section at 20 cm. Spinifex zone is bleached carbonated with minor Fe-carbonate. Last 1.5 ft is non-magnetic Diffuse contacts											
1000.0	1003.9	Biotite (Mica) Transition Matrix composed of talc-chlorite-carbonate											

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	A	Long.	% Py est.	% po. est.	As. est. T	Vérif.
		<p>supporting lime less than 1mm both at random by circled subhedral (tabular) felsic & carbonate or acicular 0.5-1mm long biotite (radial habit) less to less at depth with overall a more discernible felsic ash fall content clasts ranging from less than 1mm to 2mm lower contact is biotite (massive) & abrupt Tr. sulphides</p>	3-13	1003.11	1006.4	2.7				
1003.9	11270	<p>Monzonitic 1003.9-1006.0 Coarse medium grained equiaxed to porphyroblastic with abundant up to 7mm long subhedral zoned plagioclase ("clast supported") within a plagioclase - biotite matrix biotite - epidote & accessories late speckled matrix & chloropyrite matrix. Biotite crystalline & overprinting with biotite or cordierite inclusions Non-magnetic 1" clasts (xenoliths) of vit. carbonate - Py (Mudstone) angular to sub-rounded 1003.9-1004.1 Matrix contains 1" biotite to acicular (& radial) as well as vermicular (?) - & acicular) near to fine-grained mineralization Sub-metallic angular to crystalline (clastic) material</p>	3-13	1006.1	1011.1	5.0				
			3-13	1015.6	1020.6	3.0				

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	A	Long.	% Py est.	% ps. est.	As. est. T	Vet.	
		colourless streak, H 2-5?, Possible Riebeckite. Comprises the major matrix mineral within the zone 1006.0 - 1095.1 Monzonite ss Pink-grey to brick-red grey or buff grey. Non-magnetic, calcareous. Medium-grained, idioblastic, porphyroblastic. Some of the remarkable well zoned plagioclase blasts with various Na/K spars content in cores as well as overlying the blast-supported tabular randomly oriented with biotite, epidote & quartz inclusions. quartz inclusions.									
		Matrix is less than 5% by volume, composed of sub-hedral intergrowths of plagioclase, biotite, epidote & trace to locally 11% Fe & Mn sp (with hornblende) less than 1% xenotime - disseminated in matrix fractures & alteration with Py & Cp within (disseminated)	3-15	1034	1039	5.0					
			3-16	1049	1054	5.0					
			3-17	1072.75	1077.75	5.0					
			3-18	1097	1002	5.0					
		Matrix is less than 5% by volume, composed of sub-hedral intergrowths of plagioclase, biotite, epidote & trace to locally 11% Fe & Mn sp (with hornblende) less than 1% xenotime - disseminated in matrix fractures & alteration with Py & Cp within (disseminated)	2-10	1115	1120	5.0					
		Pink red zones up to 30 cm exhibit Na/K spars alteration of plagioclase blasts 1095.1 - 1127. More Na/K spars alteration within blasts & matrix with pseudo-hornblende or quartz Na/K altered zones. Minor alteration at 1416-1417 with sub-hedral plagioclase crystals.									

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DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	A	Long.	% Py est.	% po. est.	As. est. T	Verif.	
		Vague, very weakly defined mineral alignment from 1416 - 1127, with stannate tilted at 50° to C.A. or. raschi tabular - bladed plagioclase aligned over single crystal widths.									
		Overall Tr-1'dess Py & Cp. latter not present below 1095.1 ft.									
		E.O.H. 1127 ft									
		C.A.F. / C.A. readings									
		17' 45°									
		30' 50°									
		60' 45°									
		100' 45°									
		110' 45°									
		125' 45° (NW)									
		149' 45°									
		200' 45°									
		300' 45°									
		400' 55°									
		470' 50°									
		515' 50°									
		600' 55°									
		1000' 65°									
		1120' 60°									

No SC 87-3

Projet : SHARPCREEK Ligne : 96+00N Ord. : Profondeur : 0 337 647/1037 Couronne
 Claim : Section : 35+00W Ord. : Plongée : 55° 51° 51 47 AX: EX:
 Canton : Lat. : Long. : Azimut : 80° 112° 125 AG: 3A
 Rang : Elévation Orifice : Commencé le : 16.3.87
 Lot : Azimut : Terminé le : 27-3.87
 N.T.S. : Niveau : Entrepreneur : BARRON

Feuille No 1 de 27

De 0 à 1127
 Profondeur totale: 1127

Journal: TNSH
 Date: 18.3.87

DE	T. A	GÉOLOGIE	ÉCHANTILLON				ANALYSES					
			No:	De	A	Long.	% Py est.	% po. est.	Au. oz. T	V&R.		
0	15	0/v										
15.0	19.5	Foliated carbonized Dacite to Quartz Siltstone. Characteristic "pea-chip" fractured with chlorite s-planes. Calc. impregnated foliated to laminated or recrystallized massive non- magnetic matrix carbonized. Matrix with biotite with later detrital laminae (60° to C.A.) supports minor amount of Tr. Py & ha. disseminated crystals										
19.5	22.5	Ash contaminated siltstone fine grained massive to laminated (massive carbonaceous than matrix) fine disseminated but sulphide bands with minor amount of biotite detrital - in. ch. in. in. det.										
22.5	7/10	Laminated siltstone Calc. beds, chlorite to laminated weakly carbonized. Laminas are opposed. Minor amount of detrital C.A. detrital. No calc. in.										

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____
 Rang : _____ Elévation Orifice: _____ Commencé le : _____
 Lot : _____ Azimut: _____ Terminé le : _____
 N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Couronne
 AX: EX:
 AQ:
 Feuille No 2 de 27
 De _____ à _____
 Profondeur totale: _____

Journal: _____
 Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES						
			No:	De	A	Long.	% Py est.	% po. est.	Az. oz. T	Vérif.			
		2-3' carbonaceous laminar & calcified up to 10cm in width, of a pale medium grey carbonatized ash fall tuff. (Felsic clasts, or nodules & blades of bte)											
		Tr. diss. in shaly matrix, storage of P ₂ O ₅ & P ₂ O ₃											
		Uniform near rhythmically laminar											
71.0	72.0	Lilac Intermediate-Mafic, Fragmental											
		subtially tabular, becoming massive, recrystallized greenish-grey, weakly carbonatized, chertified, with randomly oriented bte-chl. clasts up to 10mm in length within 6 (Mafic Tuff debris) in matrix											
		Diffuse contacts											
72.0	83.3	Interbedded Graphitic Mudstone & Dolitic Tuff											
		Graphitic mud/siltstone with 1/2 to 1cm carbonate laminae (ca. 10°-65°), within a matrix of fine grained felsic sand (matrix supported) ash fall tuff. trace greened to carbonaceous nodules, carbonatized, non-monochie											
		Tr. diss. in shaly matrix in nodules, tabular											
		80.9 - 83.3											
83.3	86.6	Chloritic siltstone & Interbedded Carbonatized Dolitic Ash Fall siltstone											
		Matrix argill. fine grained, massive, micaceous											
		Gradational contact with previous unit											

No SC 87-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:
 Rang : _____ Élévation Orifice: _____ Commencé le : _____
 Lot : _____ Azimut: _____ Terminé le : _____
 N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 3 de 27

De _____ à _____
Profondeur totale: _____

Journal: _____
Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES						
			No:	De	A	Long.	% Py est.	% po. est.	Au. oz. T	Vérif.			
		1 m, randomly oriented with no alignment. Non magnetic. More chloritic below 84.5 ft.											
86.6	97.5	Ash-lapilli Pyroclastic Flow in Chloritic Siltstone Continuation of 83.0-86.6? with larger felsic clasts & greater abundance of 5mm & larger clast-supported. Matrix is dacitic, chloritic, greenish or pinkish-grey. Contains embedded bit-carbonate fragments of units.	3-1	86.6	91.1	4.5							
		86.6-87.1 Abundant anhedral quartz & subordinate plagioclase crystals (subhedral), randomly oriented in a siltstone matrix which contains interstitial bit crystals. ? sericite & decomposed to Py. Flow banding / welding below 87.6 with pseudotachylite at joints to white at joints.	3-2	91.1	97.25	5.15							
		87.1-87.5 Fine-grained, micaceous, greenish-grey matrix with solid flow texture, bit-carbonate vesicles & bit-carbonate subvolcanic fragments intercrystalline & later calcified, with subvolcanic developed. Tr - 1% Py.											
		87.5-88.7 Arkose, greenish-grey, to dark grey flow. Numerous bit-carbonate shards, vesicles less than 1mm diameter, clast supported. Annealed clast matrix which is weakly calcified.											

No SC 87-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:
 Rang : _____ Élévation Orifice: _____ Commencé le : _____
 Lot : _____ Azimut: _____ Terminé le : _____
 N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 4 de 27

De _____ à _____
 Profondeur totale: _____

Journal: _____
 Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES						
			No:	De	A	Long.	% Py est.	% po. est.	Au. oz. T	Véif.			
		Some alteration of amphiboles a few mm distance a couple of inches. Sericite & base probably more also define some upper contact of these. Lower abrupt.											
		88.6 - 89.1 Green carbonated. Laminated. Biotite. Mudstone contains sparse amounts of water-washed ash & bte crystals. Contacts exhibit typical of previous case over lens with less carbonate. within 88.6 - 89.1 otherwise abrupt.											
		89.1 - 90.25 Dacitic Pyroclastic Ash-fall. Tuff. 51 clast volume. Ash fall in chloritic siltstone. Minor clast welding over a few cm. Green to pinkish grey. 1N orthoclase with later sericite. No welding near flow texture & more Py. Overall 11 clast Py. Clasts are sub rounded to sub angular, or elongate, up to 3mm & predominantly quartzose.											
		90.25 - 90.4 Quartz vein. White to vitreous. Massive lower contact is carbonated in base sericite with recrystallized biotite, at 50 to 60. Upper contact is irregular, 45-90° to CA.											
		90.4 - 92.25. Sericitic chloritic siltstone, becoming more biotitic massive to laminated & carbonated with small scale shears & minor ash fall with water over a few cm wide ash fall & subordinate silty matrix. Contains sporadic amphibole mudstone laminae. Diffuse contacts.											

No SC 87-3
 Feuille No 5 de 27
 De _____ à _____
 Profondeur totale: _____

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:
 Rang : _____ Élévation Orifice: _____ Commencé le : _____
 Lot : _____ Azimut: _____ Terminé le : _____
 N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Journal: _____
 Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES							
			No:	De	A	Long.	% Py est.	% po. est.	As. oz. T	Vérif.				
4224	1075	Interbedded chloritic siltstone, ash-lapilli, dark grey micaceous & quartziferous argillitic mudstones. Similar to 90.25-92.75. Both lithologies are relatively massive with abrupt contacts. Individual sub-unit nodules are highly variable but thin in general up to 45cm. Matrix is silty, argillitic-biotitic with sporadic distribution of ash fall. Disseminated Fe & Mn inclusions. Abrupt lower contact. S.A.T. remains at 45°.												
		97.25-98.5 A chloritic biotitic carbonaceous fragmental ash fall (in volume) shards or less than human length. Overall fine grained equigranular, argillitic matrix.	3-3	97.25	107.1	4.85								
		98.5-99.25 Silicified brecciated fibrous to porous. Abrupt contact. Shards are poorly defined but many sub-microscopic rounded or welded, clast-supported. Matrix is silty (ash fall) less than 5% by volume, containing chert & blue-grey phyllosilicate (plagioclase & mica). H=4, sub-volcanic porphyry late & local amphibole occurrence & weathered to stringers below.	3-4	102.1	107.0	4.9								
		99.25-100.15 As 97.25-98.5												
		100.15-100.50 As 98.5-99.25												

No SC 87-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____
 Rang : _____ Élévation Orifice : _____ Commencé le : _____
 Lot : _____ Azimut : _____ Terminé le : _____
 N.T.S. : _____ Niveau : _____ Entrepreneur : _____

Couronne
AX: EX:
AQ:

Feuille No 6 de 27
De _____ à _____
Profondeur totale: _____

Journal: _____
Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES							
			No:	De	A	Long.	% Py est.	% po. est.	Au. oz. T	Vérif.				
		100.65-103.7 Feldspathized (ash fall) Carbonatized Biotite fragmental. Dark green, massive to (hlc)- foliated with minor clumping & localized brecciation.												
		103.7-107.5 Similar to 98.15-99.25 but matrix is more distinct & silty, still with abundant & locally calc-sulphated talc, qtz &> feldspar shards. Locally banded with iron staining 3' thick micritic line. also talc chl. & amphibole Tr. desc. on regard aggregates of Cp, Fe & Py A distinct, isolated massive chromite silstone from 104.5-105.25 Subventral zone situated in lower area sub-ventral chromite zone. Lowest 4 cm is brownish-grey, silty, with sulphide mineralized brecciated & banded breccia Hanging												
107.5	114.0	Chromite Silstone In situ, quartz brecciated, containing pale green, circular line, assumed to dip in the infilling & angular fragments. Overall matrix laminated or tabular (defined by ble) with carbonate cement and parallel to axis of 55° Matrix is calciferous & spidolite, weakly carbonated	3-5	107.0	111.9	4.9								
			3-6	111.9	116.8	4.9								

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____
 Couronne : _____
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____
 AX: EX: _____
 Rang : _____ Élévation Orifice: _____ Commencé le : _____
 Lot : _____ Azimut: _____ Terminé le : _____
 N.T.S. : _____ Niveau: _____ Entrepreneur : _____
 AQ: _____

No SC 87-3
 Feuille No 7 de 27
 De _____ à _____
 Profondeur totale: _____
 Journal: _____
 Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES						
			No:	De	A	Long.	% Py est.	% po. est.	As. oz. T	Vérif.			
		111.4-112.1 Brecciated calcareous mudstone or ?-pumiceous fragments.											
114.0	119.64	Biotitic Mudstone Chloritic argill. ls. area. Fine grained, slatified massive. Moderately to intensely carbonated by veining. Slatified, a typical ls. mass with tall or quartz replacement & siliceous with calcareous veining. Near lower veins, biotite is associated with chlorite or epidote.	3-7	116.8	121.8	5.0							
		114.0-115.2, 118.3-119.6 Sub parallel to calc. carbonated calc veins with calc replacement. Slatified or ls. replacement after a bit of ls. coarse grained shaly.											
		116.4-119.6 Green yellow biotite calc. ls. Brecciated ls. with biotite in matrix. Slatified or an equigranular matrix.											
		114.0-115.2 ls. with small ls. crystals. In lower vein 4 mm crystal ls. fragments trace disseminated magnetite lower contact is slumped abrupt											
119.64	121.8	Laminated to tabular Siltstone Siltstone - glauconitic to micaceous ls. laminated											

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____
 Rang : _____ Élévation Orifice : _____ Commencé le : _____
 Lot : _____ Azimut : _____ Terminé le : _____
 N.T.S. : _____ Niveau : _____ Entrepreneur : _____

No SC 87-3

Feuille No 8 de 27

De _____ à _____
Profondeur totale: _____

Journal: _____
Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES							
			No:	De	A	Long.	% Py. est.	% po. est.	Au. est. T	Vérl.				
		Point le premier étage d'une carrière subverticale (dactyle) siliceuse 11 dms. Po. 1. 8 ip. 2x mand. Carbonatée calc. et fer. et tal.												
121.8	139.4	Dactyle chlorite Siliceuse Finche laminated to shaly. 30-60° east by ble. blades of calcite and tal. locally siliceous with irregular small scale brecciation. Journin - non magnés. chlorite with tal. zones 1-2' carbonate veins with some 10' etc. or ankerite. 1-2' argillite siliceous or fer. 14 dms. Po. 1. 8 ip. 2x mand. etc. Journin Non magnés.	3-8	138.2	143.0	4.8								
139.4	141.0	Finche breccia of siliceous Weakly carbonatized matrix siliceous matrix. Siliceous calcite brecciated with tal. and etc. - ? sandstone. 2' argillite siliceous Crude talciferous dolomite in thin beds Journin or bladed siliceous in matrix shaly tal. and 1.2' dms. argillite.												

No SC 87-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____
 Canton : _____ Lot. : _____ Long. : _____ Azimut : _____
 Rang : _____ Elévation Orifice: _____ Commencé le : _____
 Lot : _____ Azimut: _____ Terminé le : _____
 N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Couronne
 AX: EX:
 AQ:

Feuille No 9 de 27

De _____ à _____
 Profondeur totale: _____

Journal: _____
 Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES						
			No:	De	A	Long.	% Py est.	% po. est.	As. oz. T	Vérif.			
141.0	142.5	Carbonatized, Poorly Brecciated Mudstone 1' Py											
142.5	150.75	Massive to laminated, Rhythmically layered silt - Mudstone Grey to dark grey, fine-grained non magnetic with localized dissolution of otherwise uniform laminar silt - Mudstone. Carbonaceous mud not present throughout & up to 5mm in thickness at 2' Perazine or veined carbonate causes minor offset & brecciation of beds Tr. diss. Py Tr. Po C.A.I. 35 Gradational Contact											
150.75	161.75	Fragmentary siltstone Inclined brecciated mudstone locally also brecciated & fractured with disseminated stabilite Py in Ble, however, brecciation is not argued dark argonite granules, erratically distributed bit. frag- ments in a silt - mudstone with clay like matrix 2' haematite - epidote or hematite - calcite											
161.75	197.0	Dacitic Ash Fall in siltstone Pale green grey or green massive to laminated Contains large fragments of bit. carbonate -											

No SC 87-3

Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:
 Rang : _____ Élévation Orifice: _____ Commencé le : _____
 Lot : _____ Azimut: _____ Terminé le : _____
 N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 10 de 27

De _____ à _____
 Profondeur totale: _____

Journal: _____
 Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES				
			No:	De	A	Long.	% Py est.	% po. est.	Au. oz. T	Vérif.	
		biotite laminar bleached clay in carbonaceous carbonatized mudstone beds Overall weakly & porous carbonized Non-magnetic Asst fall in poorly disseminated confined to sporadic localized zones containing up to 2mm feldspar crystals (matrix supported)									
197.0	3420	Laminated siltstone A very uniform fine-grained weakly carbonatized non magnetic massive silt matrix Characterized by many (10' by volume) carbonaceous mud laminae (av. 60° C.A.L.) which may contain stringers or wisps of calcite (sub-parallel to axial network) 2 cm long up to 4 cm in thickness 292.5-292.75 Haematite & carbonate seen at 30' to 1A Minor Fe-carbonate traceable sulphides. Overall to class Py.									
3420	382.0	Chlorite siltstone Medium to pale greenish grey, finely laminated Distinctly (some Bte (mid) laminae. Fe-rich by bte crystal in thin stringers or laminae.									

No SC 87-3

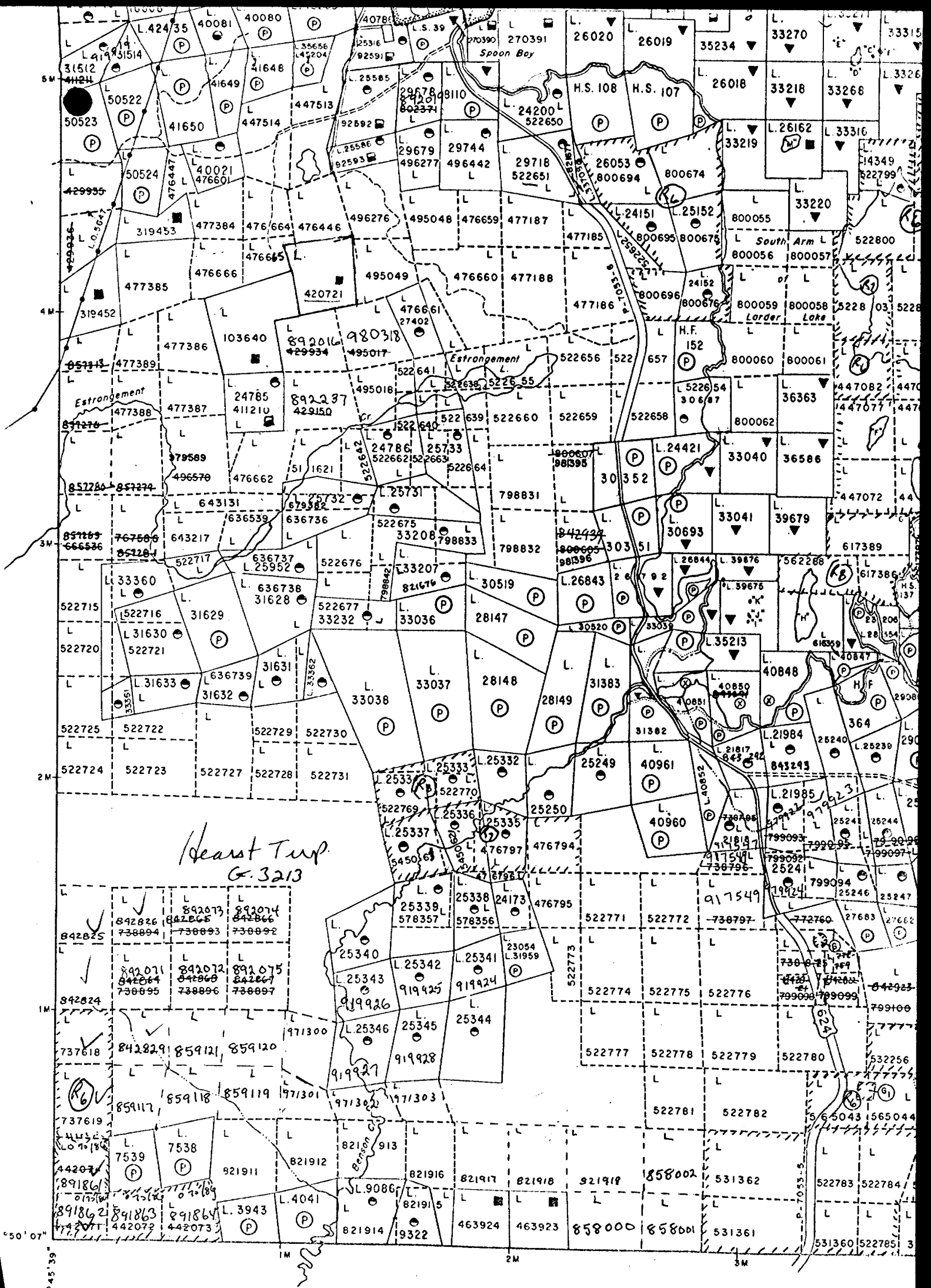
Projet : _____ Ligne : _____ Ord. : _____ Profondeur : _____ Couronne
 Claim : _____ Section : _____ Ord. : _____ Plongée : _____ AX: EX:
 Canton : _____ Lat. : _____ Long. : _____ Azimut : _____ AQ:
 Rang : _____ Élévation Office: _____ Commencé le : _____
 Lot : _____ Azimut: _____ Terminé le : _____
 N.T.S. : _____ Niveau: _____ Entrepreneur : _____

Feuille No 11 de 27

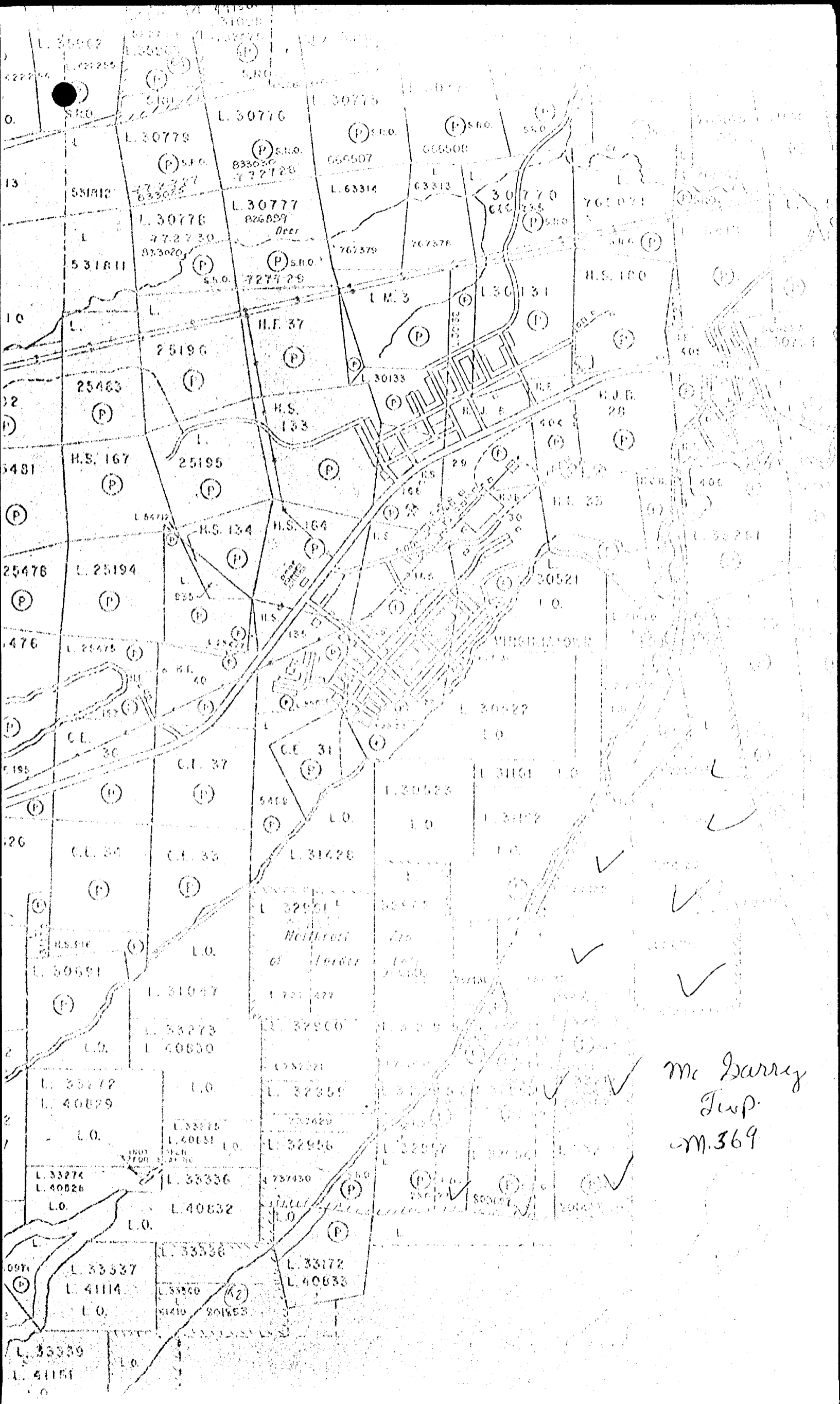
De _____ à _____
 Profondeur totale: _____

Journal: _____
 Date: _____

DE	A	GÉOLOGIE	ÉCHANTILLON				ANALYSES			
			No:	De	A	Long.	% Py est.	% po. est.	As. oz. T	Vérif.
		1-2' cle (8 minor 15 carbonate) - gtz scattered at 30° & 10:50° to c.c. Matrix carbonate may highlight foliation Contains carbonated biotitic mud/silt beds up to 25cm in thickness. Sporadic but localized areas of 12cm wide zones of matrix-bound $1\mu\text{m}$ gtz shards (crystal lull) which define a mineral lineation 1% fine disseminated sulphides Gradational contact								
22.0	400.6	Massive fine foliated chloritic siltstone. Sparse biotite foliated. C.A.S. 55. Locally slightly sigmoidal. Chlorite matrix may be carbonated with matrix in sparse less than 5% up to 3cm wide carbonate (cle) - gtz bands. Some latter contain scattered chlorite matrix bands or thin siltstone (0.2-1cm wide) in the matrix. Int. Matrix dark grey to black. Chlorite diss. to may occur in matrix or matrix diss. to dissolve. Gradational contact								

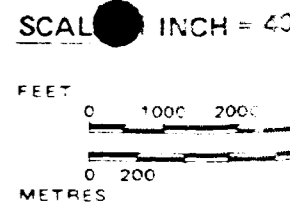
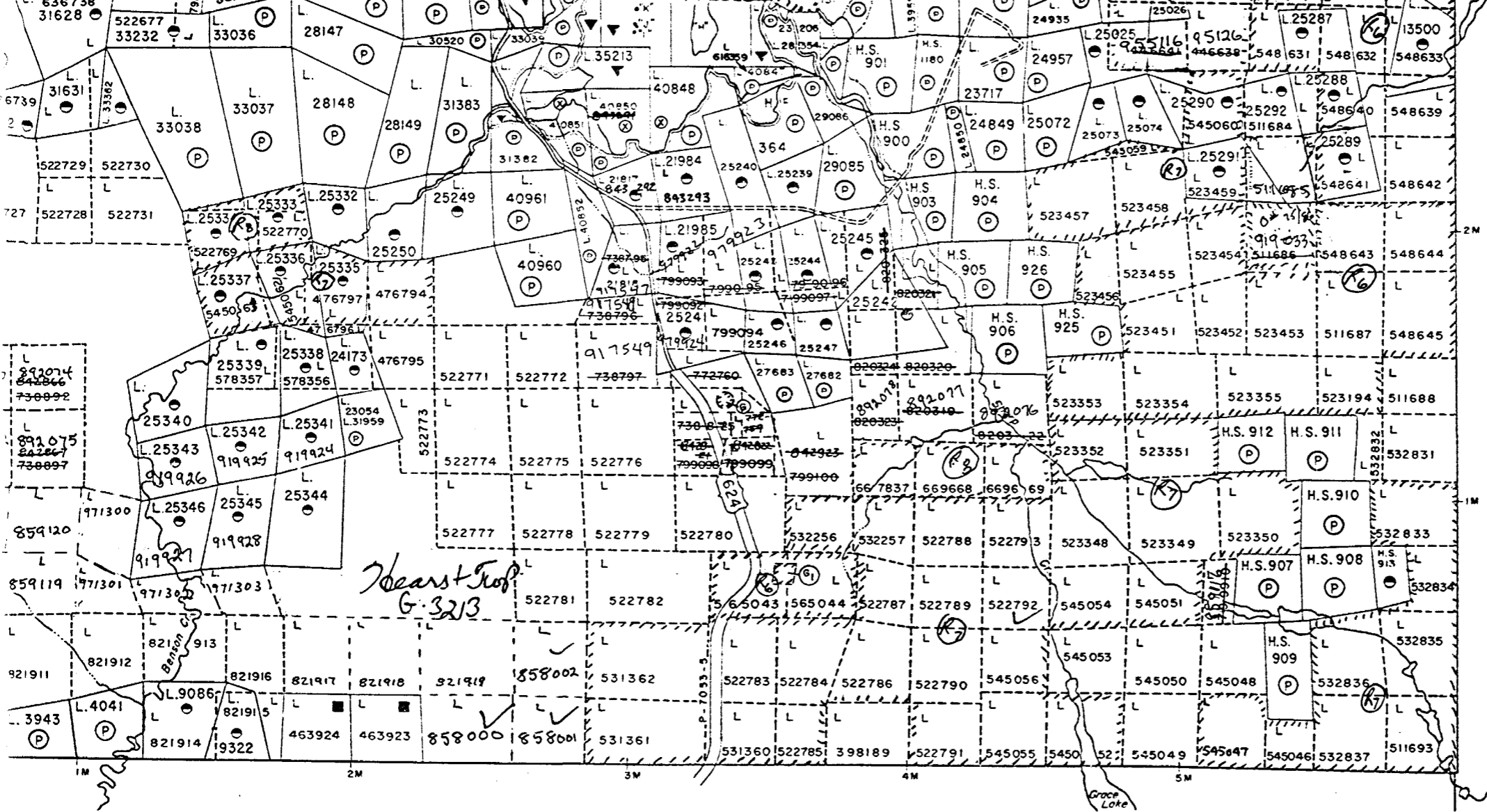


SKCAD TWP.



Mc Barry
Twp.
M. 369

MCFADDEN



TOWNSHIP
HEARS
 M.N.R. ADMINISTRATION
KIRKLAND
 MINING DIVISION
LARDER
 LAND TITLES / REGISTRATION
TIMISKAMING



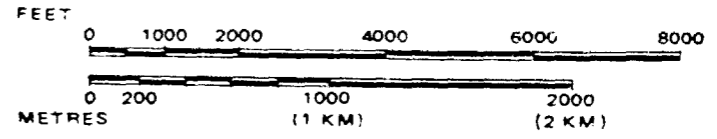
Date FEBRUARY, 1965

SKEAD TWP.

HEARST T

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

McELROY

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING



Ministry of Natural Resources

Land Management Branch

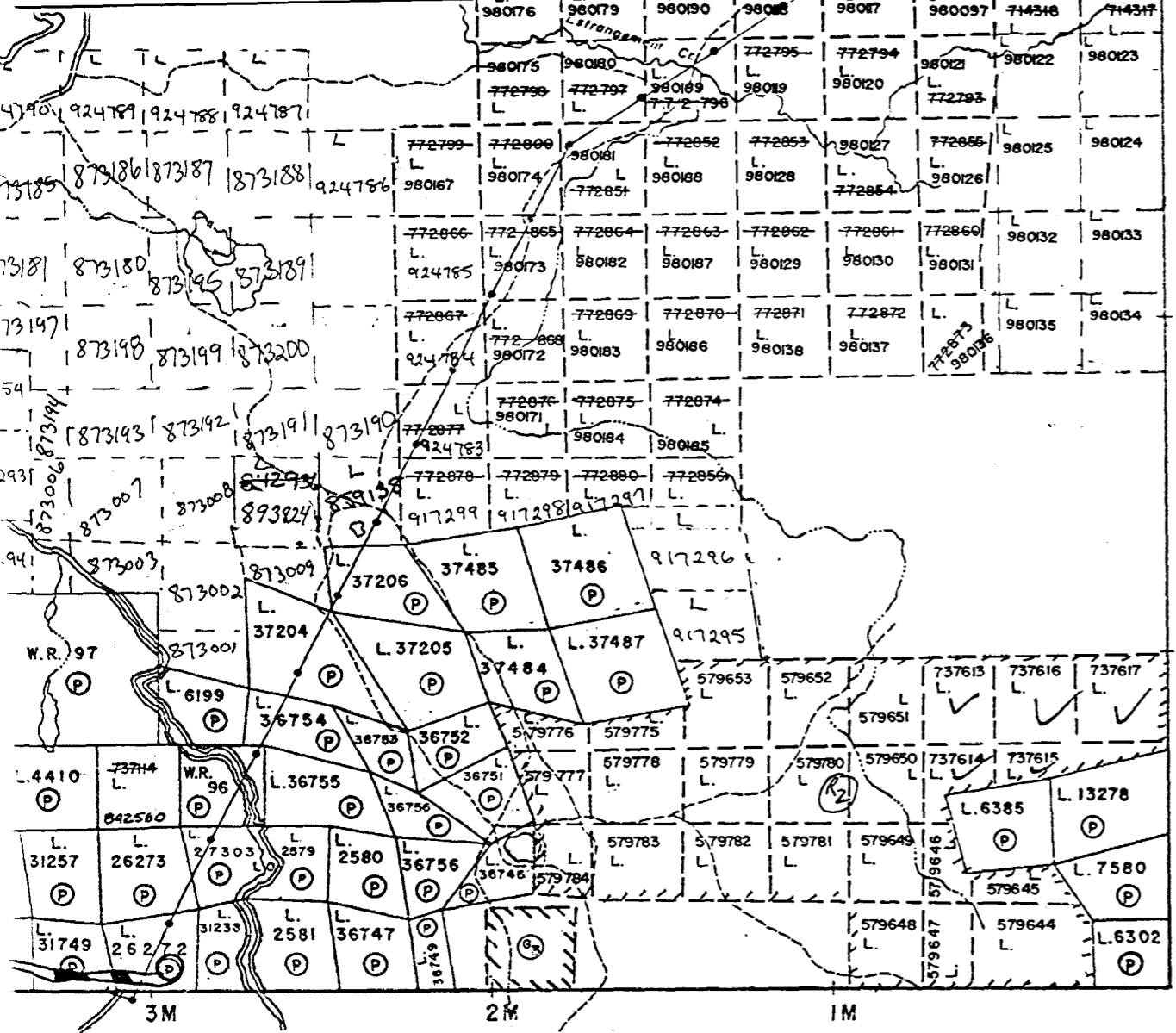
Ontario

#10

Date JANUARY, 1985

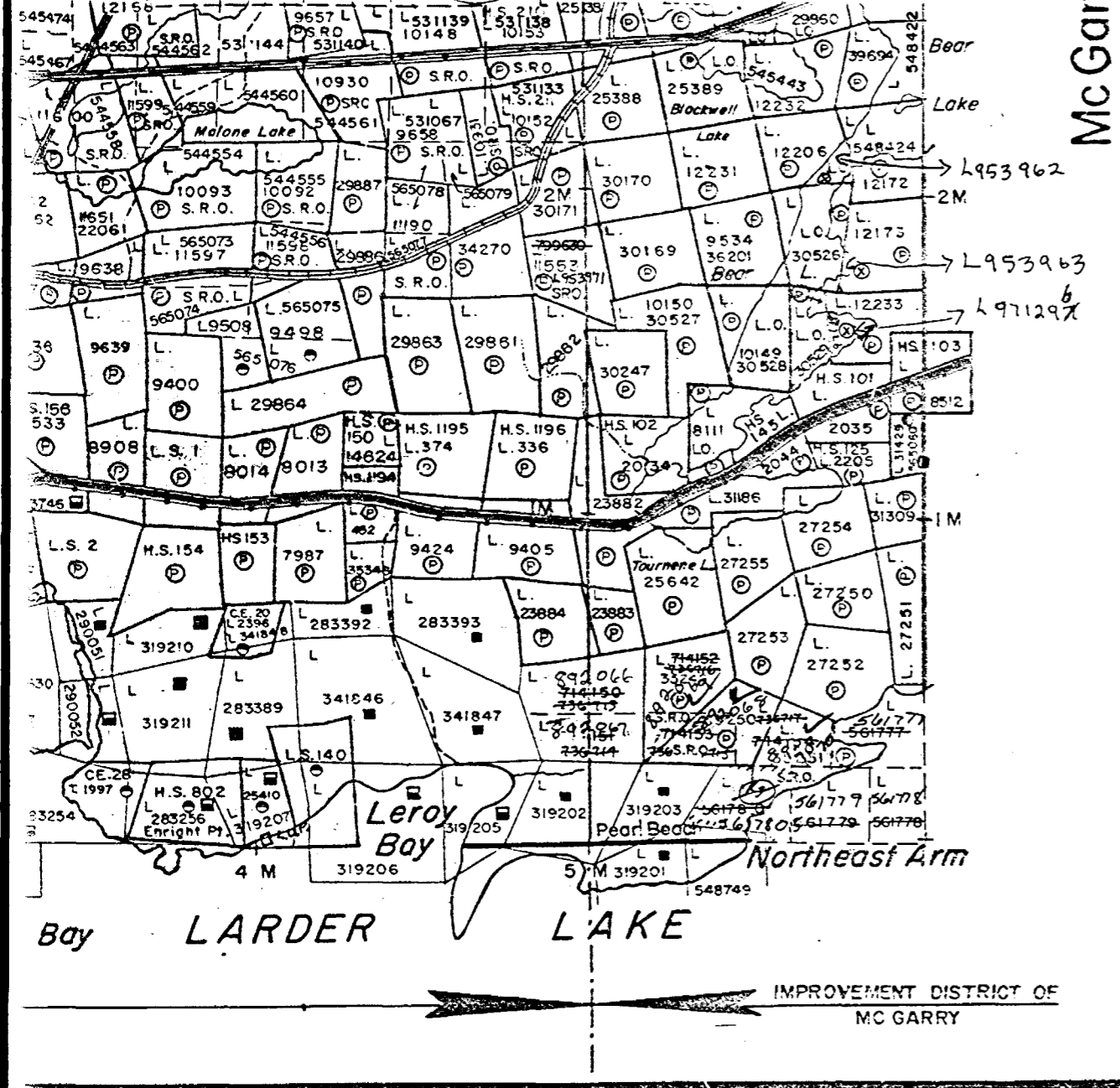
Number

G-3214




INE Tp.

LARDER LAKE
 2 8 13
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 AM
 7 1 5 1985



- (R1) SEC 36/80 NRW 64/84 01/03/84 MR+SR
- (R2) SEC 36/80 NAW 23/85 11/27/85 MR+SR
- (R3) Sec 36/80 W-9/80 24/01/80 M+S
Sec 36/80 W-11/80 14/01/80 M+S
- (R4) W-22/86 6/3/86 SEC 36/80 M+S

McVITTIE
 M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
 MINING DIVISION
LARDER LAKE
 LAND TITLES / REGISTRY DIVISION
TIMISKAMING


 Ministry of Land Management
 Natural Resources Branch

LARDER LAKE
 MINING DIV.
RECEIVED
 FEB - 8 1985
 AM 7 18 19 20 21 22 23 24 25 26 PM

Date **SEPTEMBER 1984** Number **G-3163**

17

G-3163

The Mi



32004SE0169 42 HEARST

900

Name and Postal Address of Recorded Holder

Robert A. MacGregor

134 Palace Dr., Sault Ste. Marie, Ontario P6B 5H5

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 1,127	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	L	892068 -	78	L	737613 -	40	L	800684	20
		892069 -	120		737614 -	40		800685 -	20
		892070 -	110		737615 -	40		800686 -	20
		736734 -	20		737616 -	40		800687 -	20
		736735 -	20		737617 -	40		800688 -	20
		736736 -	20		737618 -	40		842824 -	20
		737432 -	20		737619 -	40		842825 -	20
		737433 -	20		800683	20 -		842826 -	20

All the work was performed on Mining Claim(s): L522792

(continued)

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Barron Diamond Drilling
227 Georgina St.
Haileybury, Ontario

Hole #3
to 1,127

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE

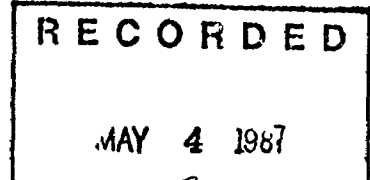
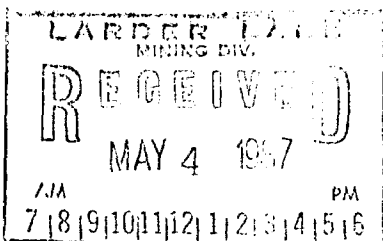
JUN 17 1987

RECEIVED

B.Q. Core

March 16/87

to March 27/87



Date of Report
April 3/87

Recorded Holder or Agent (Signature)
[Signature]

Person Verifying Report of Work

I certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work assessed same during and/or after its completion and the annexed report is true.

Postal Address of Person Certifying

Robert A. MacGregor, 134 Palace Dr., Sault Ste. Marie, Ont. P6B 5H5

Date Certified
April 3/87

Certified by (Signature)
[Signature]

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

Mining Claim Numbers (Continued)

Report of Work Hole #3
April 3, 1987

L842829	40 days	
L858000	40	
L858001	40	
L858002	40	
L891861	60	
L891862	39	
	<u>total</u>	1,127