



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Page 2 of 6

Property **BETTY LAKE** Project No. **538**
Hole No. **B1-1** Co ord. **2+00 W**
Claim No. **0+65 N**
Grid No. **Betty Lake** Angle & Grid Direction **180°/-55°**

Depth **20557** Horizontal Length **20557**
Core Size **NQ** Elevation **20557**
Date Began **Wed. March 17, 1993**
Date Completed **Thurs. March 18, 1993**
Drilled By **Longyear**
Logged By **H. Miree**

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD			
		FROM	TO	SAMPLE	WIDTH
D - 16.92	OVERBURDEN - Sand + boulders				
15.92 - 23.46	ULTRAMAFIC FLOW ? - Pale 'creamy' greyish-green, fgn'd, moderate fabric & moderately hard - possibly mafic (hardness?) - sparse cryptic xfl blade masses 2-5mm - cumulate appearance (glomerulophytic xfl blade masses) - non-magnetic - sparse quartz-carbonate veinlets + stringers. 23.30 - 23.44 m increase in xfl blade size ~ low 23.44 - 23.46 m aphanitic -> flow margin - possibly top	21.35	21.35	20554	
23.46 - 25.83	MAFIC FLOW - Variolitic - medium-dark greyish green, v. fgn'd-aphanitic, weak fabric - containing moderately abundant 10-20cm wide intervals of light green-green variegated 1x3mm to 2x6mm - flattened pfl dominate fabric - local amygdaloidal intervals ~ 5cm, amygdals 2x6mm, flattened qtz-epidote? filled. 25.45 - 25.64 m irregular Quartz-Ankerite Vein - 2cm wide, x-cuts fabric, irregular - 20% ank-rite along vein margins 25.50m caa 51°	24.10	24.30	20555	
25.83 - 27.80	ULTRAMAFIC FLOW - Pale 'creamy' greyish-green, f. grained, moderate fabric - local intervals of felted texture similar to BL-2, - m - - probably fine grained spinifer texture (v. tale 1/2 serpentine) - local intervals w/ cumulate appearance - glomerulophytic 'felted' texture - difficult to interpret stratigraphic tops - difficult to determine contacts - gradational? little contrast in characteristics	27.46	27.65	20556	
27.80 - 36.89	MAFIC FLOW - Variolitic - similar to 23.46-25.83 m - local variolitic + amygdaloidal intervals 55.80m flattened variegated caa 52°	35.80	36.00	20557	



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ANOMALY:

Property **BETTY LAKE** Project No. **538**
 Hole No. **BL-1** Co. ord. **2+00W**
 Claim No. **Betty Lake** Angle & Grid Direction **180°/-55°**
 Page **3 of 6** Grid No. **Betty Lake** Elevation

Depth **N/A** Horizontal Length **N/A**
 Core Size **N/A** Date Began
 Date Completed
 Drilled By
 Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD			
		FROM	TO	SAMPLE	WIDTH
	33.41 - 33.52 m Broken Core, limonite stained - Fault?				
	36.50 - 36.58 Broken Core, minor gouge - Fault				
36.09 - 39.83	ULTRAMAFIC FLOW - similar to 25.83-27.80 m - local intervals of fine 'fatted' texture - local cumulate appearance with fine pale creamy network encompassing H greyish-green glomeroporphyritic feld xtl blade masses. - fine pale creamy network defines moderate fabric	36.50	37.05	20558	
	37.70 - 37.77 m Fault - broken core fault gouge				
	38.10 m old gauge				
39.83 - 46.68	MAFIC FLOW and minor FLOW BRECCIA with intercalated chert horizons - mafic flow and flow breccia; medium greyish-green, f gained, weak to moderate fabric - ~20-30% flow breccia fragments over interval - numerous local chert bands; chert bands medium grey, v. hard, aphanitic - no internal fabric; bands are all to dominant fabric - some bands may actually be flattened cherty fragments (~10-20% appear as such)	40.70	42.00	20559	
	42.78 - 43.85 numerous 1/2-1cm wide cherty bands (fragments?) - 1% po	42.70	43.30	20560	
	44.02 - 44.73 Overall ~3% sph, minor cpy in 1-3cm wide sph+chert bands, bands non-conductive				
	44.02 - 44.09 60% sph to cpy in one 3cm wide semi-massive band and several fine stringers.	42.50	44.00	20561	
	44.38 - 44.39 semi-massive sph band	44.00	44.40	20562	
	44.46 - 44.49 30% sph in disseminated bands 44.46m caa 5%	44.40	44.80	20563	
	44.56 - 44.59 5% sph disseminated	44.80	45.30	20564	
	44.72 - 44.73 semi-massive sph band				
	44.90 - 45.22 several cherty bands, aphanitic - 1-2% po				
	46.68 - 50.10 Intercalated Mafic Flow and Chert Horizons - chert bands 1/2-15cm wide ~20-30% of interval - 1-3% v.f gained disseminated po to wisps + fine stringers	46.60	47.00	20565	
		47.00	47.50	20566	



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ANOMALY:

Property **BETTY LAKE** Project No **538** Date Began

Hole No. **BL-1** Coord. Date Completed

Claim No. Drilled By

Page **4 of 6** Grid No. Core Size

Angle & Grid Direction

Elevation

Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD		
		FROM	TO	WIDTH
	po over entire interval, commonly associated with chert horizons			
	- local fold noses described by chert bands + po stringers + wisps.			
	- minor v.f. gained disseminated gpy associated with po.			
	47.10 m	47.50	47.90	20567
	47.45	47.90	48.45	20568
	47.90 - 48.13	48.15	48.70	20569
	48.50	48.70	49.50	20570
	49.00 m	49.50	50.10	20571
	50.10 - 53.10	51.20	51.40	20572
	52.10 - 52.90			
	53.10 - 54.27			
	54.27 - 65.49			

MAFIC FLOW

- similar to 39.83 - 46.68 except flow breccia absent

- downhole contact difficult to distinguish

50.20 - 50.29 m aphanitic, light-medium greenish-grey - chill margin?

52.10 - 52.90 blocky core, fracture along core axis

LITRAMAFIC FLOW

- similar to 36.09 - 39.83 m

- cumulate appearance

MAFIC FLOW - Variolitic Feldspar Pyritic

- similar to 23.46 - 25.83 m

- local variolitic intervals, 5-10cm wide

- variolites zoned dark grey core, Pt greyish-green margins

- also local sparse (w/%) minute feldspar pyritic grains - definitely this rock is not ultramafic.

- sparse local cherty bands 1/2 - 2cm wide

58.95 - 59.00 m 1% po in blebs + stringers

60.02 - 60.05 Quartz-Ankerite Vein - x cutting.

63.32 - 63.74 20-30% 1/2-1cm wide Chert bands

- 5% po, minor py

65.30 - 65.49 ~30% light Grey Quartz Veins

- irregular, 1-3cm wide

- 5% po, locally waxy



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ANOMALY:

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Property **BETTY LAKE** Project No. **538** Date Began

Hole No. **BL-1** Co-ord. Horizontal Length

Claim No. Core Size

Grid No. Angle & Grid Direction

Elevation

Date Completed

Drilled By

Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD			
		FROM	TO	SAMPLE	WIDTH
65.49 - 66.26	SULPHIDE - BEARING CHERT HORIZON ~20% py to cpy as fine disseminations, wisps + stringers - local minor py in blebs - interval is conductive over its entire length - host rock medium-dark grey, v.f. grained - aphanitic, fabric defined by sulphides. 65.60 m caa 43°	65.49	65.90	20326	
66.26 - 69.80	MAFIC FLOW - Varolitic - similar to 50.10 - 53.10 - varolitic intervals moderately abundant 67.94 - 68.07 m Chert horizon - 5% f. grained py to cpy 74.36 - 74.37 Milky White Quartz vein; resting 75.29 - 75.31 " " " 77.29 - 77.32 White Quartz - Ankerite Vein; " " 82.50 m caa 51°	67.90	68.10	20328	
89.80 - 99.95	MEDIUM - GRAINED MAFIC SUBVOLCANIC INTRUSION, FEEDER DIKE - possibly subvolcanic intrusion or feeder dike, coeval with flow - medium green and light green grey - white mottled; fine - medium grained (1-3mm Ø), equigranular, moderate fabric; dioritic composition - light green-grey white grains ph. feldspar - minor v.f. good intervals. - sharp ph. contacts, gradational downhole contact - sparse quartz-carbonate veins + stringers, 94.00 m caa 57°	94.25	94.50	20330	
99.95 - 124.05	MAFIC FLOW - similar to 66.26 - 89.80 m except sparse varolitic intervals. 102.70 - 103.50 m moderately abundant quartz-carbonate stringers (2-5mm wide) (5-10%) 105.00 - 106.00 " " " " " " veins + stringers 107.17 - 107.24 30% irregular light grey quartz-ankerite vein 107.46 - 107.51 Light grey quartz vein 109.03 - 109.08 " " " "	107.00	107.70	20331	



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: **BETTY LAKE**

Page: **6 of 6**

Grid No:

Angle & Grid Direction:

Elevation:

Hole No: **BL-1**

Co ord:

Project No: **538**

Depth:

Horizontal Length:

Date Began:

Date Completed:

Claim No:

Core Size:

Drilled By:

INTERVAL
FEET/METRES

DESCRIPTION

SAMPLE RECORD

FROM TO SAMPLE WIDTH

114.44 - 114.65 m

Felsic Dike ?

114.44

114.65

20332

- aphanitic w/ sparse lms of feldspar phenocrysts
- medium - light yellowish grey
- weak to non foliated
- sharp contacts

115.16 - 115.32

Chert + Pyroclitic Horizon

115.16

115.40

20333

- ~60% v.f. gnd po, tr py associated w/ cherty interval

123.00 m cor 64°

124.05

END OF HOLE

Casing left in

Acid Tests :

56.00 m = 55.5°
117.96 m = 52.5°

Core stored at Timmins Drill Core Library.

[Signature]



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property **BETTY LAKE** Project No. **538** Depth **148.43 m** Date Began **Sun. March 14, 1993**
 Hole No. **BL-2** Co. ord. **3+00 W** Horizontal Length **NO** Date Completed **Tues. March 16, 1993**
 Claim No. **1189587 (collar)** Core Size **NO** Drilled By **Longyear**
 Grid No. **Betty Lake** Angle & Grid Direction **180°/-55°** Elevation **NO** Logged By **H. Mirec Atkey**
 Page **1 of 6**

INTERVAL FEET / METRES	SUMMARY LOG	SAMPLE RECORD				Au G/T	Ag G/T	Cu %	Zn %
		FROM	TO	SAMPLE	WIDTH				
0 - 42.67	OVERBURDEN								
42.67 - 91.58	ULTRAMAFIC FLOW								
	61.58 - 61.60 Possible Fault Zone								
	80.05 - 80.58 3-5% py, tr cpy								
91.58 - 93.70	SULPHIDE-BEARING CHERTY INTERVAL - 5-7% po 1/2 - 1% cpy, minor py (possibly also minor sph)								
93.70 - 102.80	MAFIC FLOW - Varolitic intervals - local cherty bands								
102.80 - 148.43	ULTRAMAFIC FLOW								
	111.94 - 112.00 Fault; Fault gouge, broken, talcose								
	133.76 - 133.88 Medium Grey Quartz Vein								
148.43	END OF HOLE								
	Casing left in								
	Acid Tests : 73.15 m = 52.5° 142.34 m = 51°								
	Core stored at Timmins Drill Core Library.								
	<i>[Handwritten signatures]</i>								



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

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Property **BETTY LAKE** Project No. **3+00W** Depth **148.43m**
 Hole No. **BL-2** Claim No. **0+75N** Horizontal Length
 Grid No. **Betty Lake** Angle & Grid Direction **180°/-55°** Core Size **NQ**
 Date Began **Sun. March 14, 1993**
 Date Completed **Tues. March 16, 1993**
 Drilled By **Longyear**
 Logged By **H. Mirec**

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD			
		FROM	TO	SAMPLE	WIDTH
0 - 42.67	OVERBURDEN 0 - 17.37 17.37 - 42.67				
42.67 - 91.58	ULTRAMAFIC FLOW (?) - medium to light grey-green, v.f. gneiss, weakly foliated, well defined fabric - soft, moderate talc-carbonate alteration - non-magnetic, no fizz even on scratched surface - local ~ talcaceous intercalations - possibly mafic tuff - sparse quartz veinlets 42.67-67.00 blocky - local 1mm of amphibole inclusions - local felted texture intervals - fine spinifex texture xtls 1/2cm & 49.35 - 49.70 - minor pyrite + pyrrhotite stringers ~ 36ppm 1% po - locally waxy - stringers 2-4mm wide, all to weak-moderate fabric 55.00 - 56.30 fine spinifex texture, H masses 1/2 cm & cryptic 58.25 - 58.40 " " " " 58.80 - 59.30 " " " " 60.98 - 61.04 ^{? Py} to cpy, in v.f wisps + v.f. Hls. 61.10 - 61.80 - phyllitic folia - approaching fault zone downhole - talcose surfaces 61.58 - 61.60 Possible Fault Zone 1/2" minor gouge, broken core, low v.f. frag's 62.20m core caa 45° 65.25 - 65.34 to py in v.f. blebs + smeared along folia 65.34 - 65.36 Quartz (sericite?) Vein; 2cm wide - pale green, ~ phyllitic luster, v. weak lineation - X cuts dominant fabric 66.11 - 66.17 Quartz (- Sericite?) Vein; 5cm wide - similar to above, pale green ~ phyllitic luster - poss. contains sericite, weak lineation - X cuts dominant fabric - would be subhorizontal in situ				



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

Property: **BETTY LAKE** Project No:
 Hole No: **B1-2** Coord:
 Claim No:
 Grid No: Angle & Grid Direction:
 Page: **3 of 6** Core Size:
 Elevation:
 Date Began:
 Date Completed:
 Drilled By:
 Logged By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD			
		FROM	TO	SAMPLE	WIDTH
67.30 - 72.40	Relatively abundant quartz veinlets and stringers ~ 2% 2mm - 2cm wide irregular orientations - pale green (possibly containing minor sericite?) - minor (possibly) carbonate along vein margins.				
72.30 - 72.80	- irregular carb stringers (possibly along pillow margins.)				
74.30 - 74.50	Possible spinifex texture, sparse bladed xtls 1cm &				
79.37 - 79.40	Spinifex texture, bladed xtl masses ~ 1/2cm & - interpret stratigraphic tops downhole i.e. to south possibly (sides toward uphole, blades growing uphole to base at flow, ~ chilled - abrupt contact downhole).	79.37	79.40	20529	
80.05 - 80.58	- 3-5% pyrrhotite, & py - sulphides as fine wisps & stringers all dominant fabric - best rock light green-grey - possibly chert & 80-200µm ca. 68°	80.00	80.60	20530	
		80.00	80.20	20531	
83.40 - 84.45	'felled' texture - possibly v. fine spinifex, xtls 1-3mm & ~ Randomly oriental, weak fabric - general increase in length of xtls and definition of spinifex texture downhole (- approaching top of flow unit?)	83.70	84.40	20532	
84.45 - 85.00	felled texture, xtls 2-8mm &				
85.00 - 90.78	Spinifex texture - not clear indication of tops ~ Randomly oriental bladed masses, xtls 5mm-1cm &, wk fabric - locally weakly magnetic - local cumulate appearance?? 88.00m ca. 56°	87.50	87.70	20533	
		87.50	87.70	20534	
90.78 - 91.58	brownish interval, devoid of felled or spinifex texture - chilled flow top (or bottom) ? - contains ~ 5% brown mineral? (biotite??) + 1% po - also moderately abundant 1/5" carbonate stringers near uphole contact 90.78 - 90.98m - ~ 5% carbonate wisps throughout remainder of interval 90.78m ca. 65° - uphole contact	91.20	91.58	20535	



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

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Property: **BETTY LAKE**
Hole No: **BL-2**
Claim No:
Grid No:
Angle & Grid Direction:

Project No:
Co ord:
Depth:
Horizontal Length:
Core Size:
Elevation:

Date Began:
Date Completed:
Drilled By:

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD			
		FROM	TO	SAMPLE	WIDTH
91.58 - 93.90	<p>Sulphide-bearing Cherty Interval</p> <ul style="list-style-type: none"> - Contains ~5-7% py, 1/2-1% cpy, local minor py in wuggy blebs. - Interval is conductive over short lengths 5-10cm - host rock light grey, v.f. gnd - aphanitic, hard - sig. rich -> chert - sulphides in fine wisps & stringers up to 1cm wide - bands & wisps are interconneted. - sulphide stringers & bands delineate fold noses, all dominant fabric - cpy disseminated & evenly throughout sulphide-bearing interval, but tends to be concentrated where py is most abundant, possibly also contains minor sph. - weak to moderately well defined fabric - Variably chert bearing ~100% / 5-10cm to 50% / 8/10-30cm 5-10cm 	91.58	93.90	20528	0.50
92.65 m	Fold Nose, axis all dominant fabric	92.65	93.30	20529	0.50
93.30	" " S+Z drag folds on limbs	93.30	93.75	20530	0.50
93.75	" " " "	93.75	94.10	20531	0.50
93.90 - 102.80	<p>MAfic FLOW (?)</p> <ul style="list-style-type: none"> - sharp uphole contact, gradational double contact - medium dark greyish-green, v.f. gnd - aphanitic, moderately well defined fabric - local varietic intervals 10-20cm wide, vesicles flattened 2x6mm, light-green - local chert bands 1cm wide - minor po60m adjacent uphole contact with sulphide anit - suspect this is a sequence of flows - amenable to discriminate individual + interpret tops. 	93.90	102.80	20532	0.50
95.20 - 95.40 m	Varietic interval	95.20	95.40	20533	0.50
95.48 - 95.54	2 Chert bands, 1cm wide, dark grey, poss chilled pillow margin?	95.48	95.54	20534	0.50
97.10 - 97.20	Varietic interval	97.10	97.20	20535	0.50
97.63 - 97.77	2-4% py, 3-5% gnd? v.f. gnd in 5mm w bands - cherty possibility soap.	97.63	97.77	20536	0.50
97.92 - 97.98	2% py, 1% sph?	97.92	97.98	20537	0.50
98.24 - 98.36	" "	98.24	98.36	20538	0.50
101.95 - 102.00	Varietic interval	101.95	102.00	20539	0.50
102.65 - 102.70	" "	102.65	102.70	20540	0.50
102.00 m	caa 58°	102.00	102.00	20541	0.50



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

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Property **BETTY LAKE** Project No. **BL-2** Date Begun **.....**
 Hole No. **BL-2** Co-ord. **.....** Date Completed **.....**
 Claim No. **.....** Core Size **.....** Drilled By **.....**
 Grid No. **.....** Angle & Grid Direction **.....** Elevation **.....** Logged By **.....**

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD			
		FROM	TO	SAMPLE	WIDTH
102.80 - 148.43	ULTRAMAFIC FLOW - pale 'creamy' greyish green, finegrained, moderate fabric - local intervals of felted texture = possibly fine-grained spinifex texture and local intervals of spinifex texture - weak tale-carbonate alteration - not as soft as 92.67 - 91.58 m - minor po throughout - sparse quartz +/- carbonate stringers + veins.	102.80	102.80	20546	
	103.40 - 103.60 'felted' texture; fine, randomly oriented to weak foliated Xt masses 2-4mm &				
	104.20 - 104.50 " " similar to previous cumulate appearance 11.00m caa 56°				
	111.94 - 112.00 Faulty Gauge; broken, talcose, Milky White Quartz Vein. barren, also poss cooling cracks				
	119.80 - 119.95 len with Quartz Vein + aphanitic interval - chill margin? silicified host rock?				
	122.53 - 122.56 15% po, 1/2% cpy in irregular stringers, wavy	122.40	122.80	20547	
	122.70 - 122.72 5% po, tr cpy in fine wisps				
	125.00 - 125.60 Fine Spinifex Texture - xtl Abade masses 5mm-len & - w randomly oriented.				
	127.30 - 127.36 5% Barchartite stringers w minor cpy dissemination; Cherty bands? light grey-green to grey-white, - several bands 2-5mm wide, hard -> 5102, 127.50m caa 59°	127.30	127.30	20548	
	129.45 - 129.26 20% Milky White Quartz Veins len wide 44% Grey Quartz Vein 130.60m caa 59°	129.45	129.50	20549	
	130.60 - 130.67				
	131.10 - 133.60 Cumulate phase? - moderately abundant (10%) 1-2mm of aggregates? porphyries? - commonly have rhombic outlines - aligned pl dominant fabric - medium grey, host rock is 'creamy' pale grey-green.	132.00	133.00	20550	



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

ANOMALY:

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Property **BETTY LAKE** Project No. Depth
 Hole No. **BL-2** Co. ord. Horizontal Length Date Began
 Claim No. Core Size Date Completed
 Grd No. Angle & Grid Direction Drilled By
 Elevation Logged By

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD			
		FROM	TO	SAMPLE	WIDTH
133.76 - 133.88	Medium Grey Quartz Vein	133.76	133.88	20551	
133.88 - 133.92	10% fine pyrrhotite wisps + stringers, <1/2% cpy	133.88	133.92	20552	
133.92 - 133.97	UMF w 2% fine wisps pyrrhotite	133.92	133.97	20553	
133.97 - 134.02	Medium grey cherty bands 1/2-1cm wide	133.97	134.02	20554	
134.02 - 134.42	Two 1cm wide medium grey cherty bands	134.02	134.42	20555	
134.42 - 134.53	Sparse cherty bands 2cm - 4 1/2cm wide <1% po	134.42	134.53	20556	
143.18 - 144.18	Spinifex texture - moderately well defined - somewhat talcose - moderately well defined fabric 143.60m caa 50°	143.18	144.18	20557	
145.25 - 146.75	sparse (~2%) Quartz - Carbonate - Epidote Veinlets + stringers - irregular orientations	145.25	146.75	20558	
146.83 - 147.96	Spinifex texture - similar to 143.18-144.18m - well defined interlocking xtl blade masses 1-6cm l	146.83	147.96	20559	
147.96 - 148.43	'Feld' texture - fine possibly cryptic or in situ brecciated spinifex, also with sparse dark grey shards? - possibly hyaloclastic.	147.96	148.43	20560	
148.43m	End of Hole	148.43			
	Casing left in due to expected problems retrieving it - abundant boulders, sand				
	Acid Tests: 73.15m - 52.5° 142.34m - 51°				
	Core stored at Timmins Drill Core Library.				

Handwritten signature

APR

Report of Work Conducted After Recording Claim

Transaction Number W9460.00127

Mining Act

Personal information collected on this form is obtained under the authority of the Mining Act... collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, 1000 Bay Street, Toronto, Ontario, P3E 6A5, telephone (705) 670-7264.



900

- Instructions: - Please type or print and submit in duplicate. - Refer to the Mining Act and Regulations for requirements. - A separate copy of this form must be completed for each Work Group. - Technical reports and maps must accompany this form in duplicate. - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) GRANGES INC. Client No. 138756
Address 136 Cedar St South, Timmins, Ontario P4N 2G9 Telephone No. 705-264-1228
Mining Division Porcupine Township/Area Tooms Twp. M or G Plan No. M-1159
Dates Work Performed From: March 14, 1993 To: March 18, 1993

Work Performed (Check One Work Group Only)

Table with 2 columns: Work Group, Type. Row 1: Physical Work, Including Drilling, Diamond Drilling.

Total Assessment Work Claimed on the Attached Statement of Costs \$ 22,906

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Table with 2 columns: Name, Address. Row 1: Heather Miree (supervised program, logged core), % Granges Inc. 136 Cedar St South Timmins, Ont. P4N 2G9

Attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder. Date May 16/94 Recorded Holder or Agent (Signature) Heather Miree Regional Manager, Granges Inc.

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true. Name and Address of Person Certifying Heather Miree % 136 Cedar St. South, Timmins, Ontario P4N 2G9 Telephone No. 705-264-1228 Date May 16/94 Certified By (Signature) Heather Miree

For Office Use Only

Total Value Cr. Recorded 22,906.00 Date Recorded May 17th/94 Mining Recorder [Signature] Date Approved JULY 26/94 Date Notice for Amendments Sent [Blank] RECEIVED MAY 17 1994 140 C LK PORCUPINE MINING DIVISION

Applying Reserve	(see Note 2)	Claim Units	Work Done on this Claim	Total Value to this Claim	Assigned from this Claim	Total Reserve Claimed at a Future Date
	P-1181996	8		6,400		
	P-1189585	1		800		
	P-1189587	6	22,906	4,800	7,200	10,906
Total Number of Claims		15	Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve
			22,906	12,000	7,200	10,906

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. Credits are to be cut back starting with the claim listed last, working backwards.
2. Credits are to be cut back equally over all claims contained in this report of work.
3. Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
---------------------------------------------------------------------------------------------------------------------------------	-----------	------

Statement of Costs
for Assessment Credit

Transaction No./N° de transaction

W9460.00127

État des coûts aux fins
du crédit d'évaluation

Mining Act/Loi sur les mines

Legal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and the mining status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	2,210	
	Field Supervision Supervision sur le terrain		2,210
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-consell	Type Drill Contractor's Fees	19,446	
			19,446
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			21,656

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement	Room + Board	300	300
Mobilization and Demobilization Mobilisation et démoblisation	Transportation	950	950

Sub Total of Indirect Costs Total partiel des coûts indirects			1,250
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			1,250
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			22,906

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

Remises pour dépôt

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	

Valeur totale du crédit d'évaluation	Evaluation totale demandée
x 0,50 =	

Certification Verifying Statement of Costs

Attestation de l'état des coûts

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

J'atteste par la présente : que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

that as Regional Manager (Recorded Holder, Agent, Position in Company) I am authorized.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

to make this certification

à faire cette attestation.

Signature	Date
<i>[Signature]</i>	May 16/93

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



**HYCROFT RESOURCES &
DEVELOPMENT, INC.**

Exploration Office
P.O. Box 170
Winnemucca, Nevada
89446

phone: 702-623-0343
fax: 702-623-0560

FAX TRANSMITTAL

To: *Sylvia Dornier*

From: *Heather*

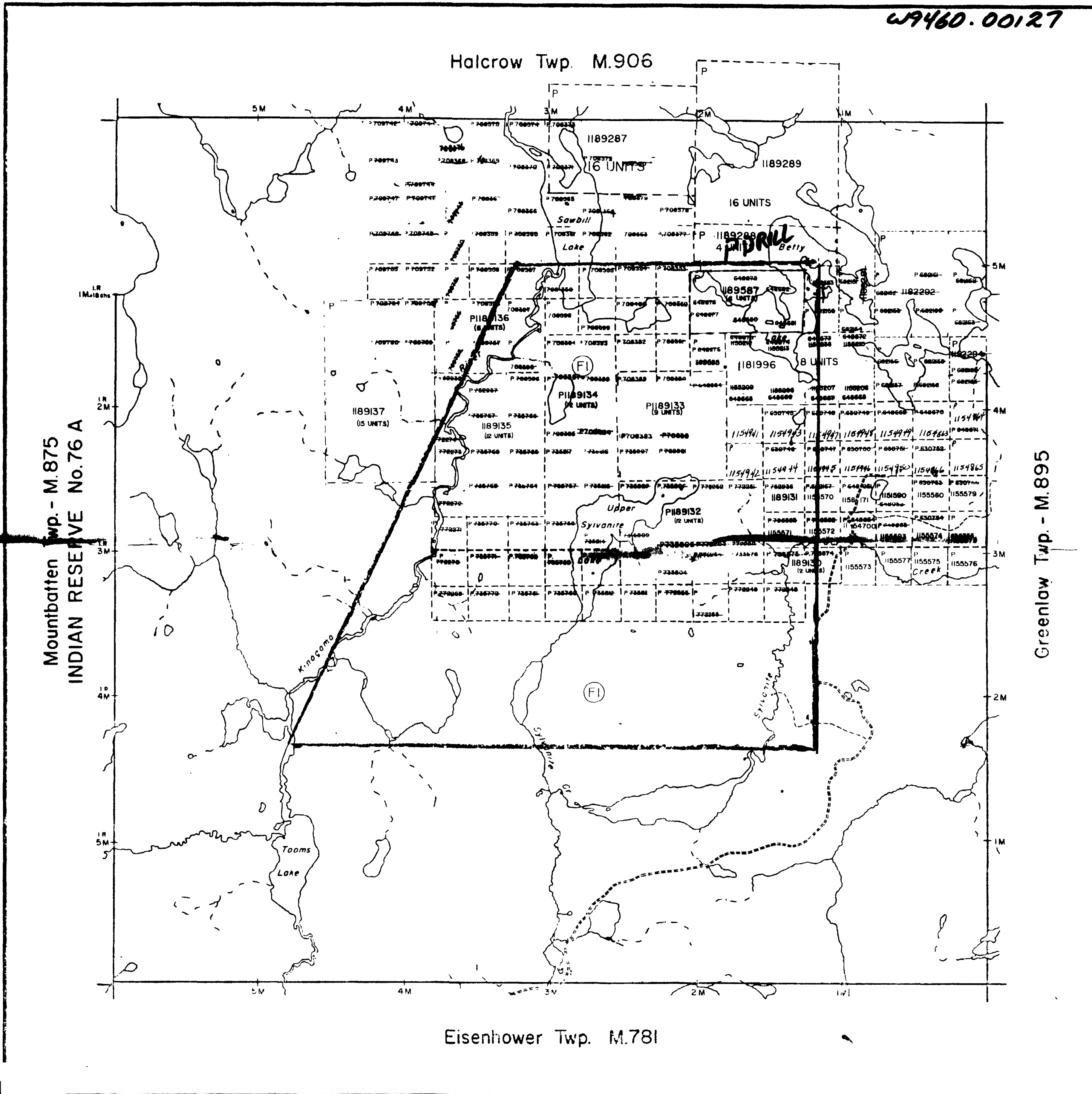
Date: *Thursday*

Fax No: *702-267-7643*

Re: *Wally Lake (Chimney) location*

*Map is not very good, but I think you
can see where that road is.*

W9460.00127



THE TOWNSHIP
OF
TOOMS
DISTRICT OF
SUDBURY
PORCUPINE
MINING DIVISION
SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	⊙
CROWN LAND SALE	C.S.
LEASES	⊖
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.D.
SURFACE RIGHTS ONLY	S.R.O.
ROADS:	
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
CANCELLED	—

NOTES

400' Surface Rights Reservation around all lakes and rivers

THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1994/95
FURTHER INFORMATION IS AVAILABLE ON FILE

1994

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

ACTIVATED APRIL 3, 1990 88

PLAN NO. **M.1159**

DEPARTMENT OF MINES
— ONTARIO —

Mountbatten Twp. - M.875
INDIAN RESERVE No.76 A

Greenlow Twp. - M.895



41010NW003 W9460 00127 TOOMS

400 NORTH

400 NORTH



300 NORTH

300 NORTH

200 NORTH

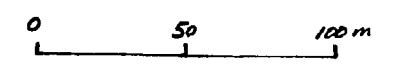
200 NORTH

100 NORTH

100 NORTH

BASE LINE

BASE LINE



210

100 SOUTH

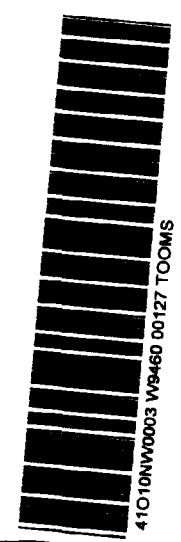
100 SOUTH

1189585

1181996

200 SOUTH

200 SOUTH



POND

200 WEST

MAIN ROAD

180 WEST

500 WEST

400 WEST

300 WEST

0

BETTY

LAKE

DRILL

DADP

BL-2
180°/-55°
EoH 148.43m

BL-1
180°/-56°
EoH 124.05m

HLEM Conductor

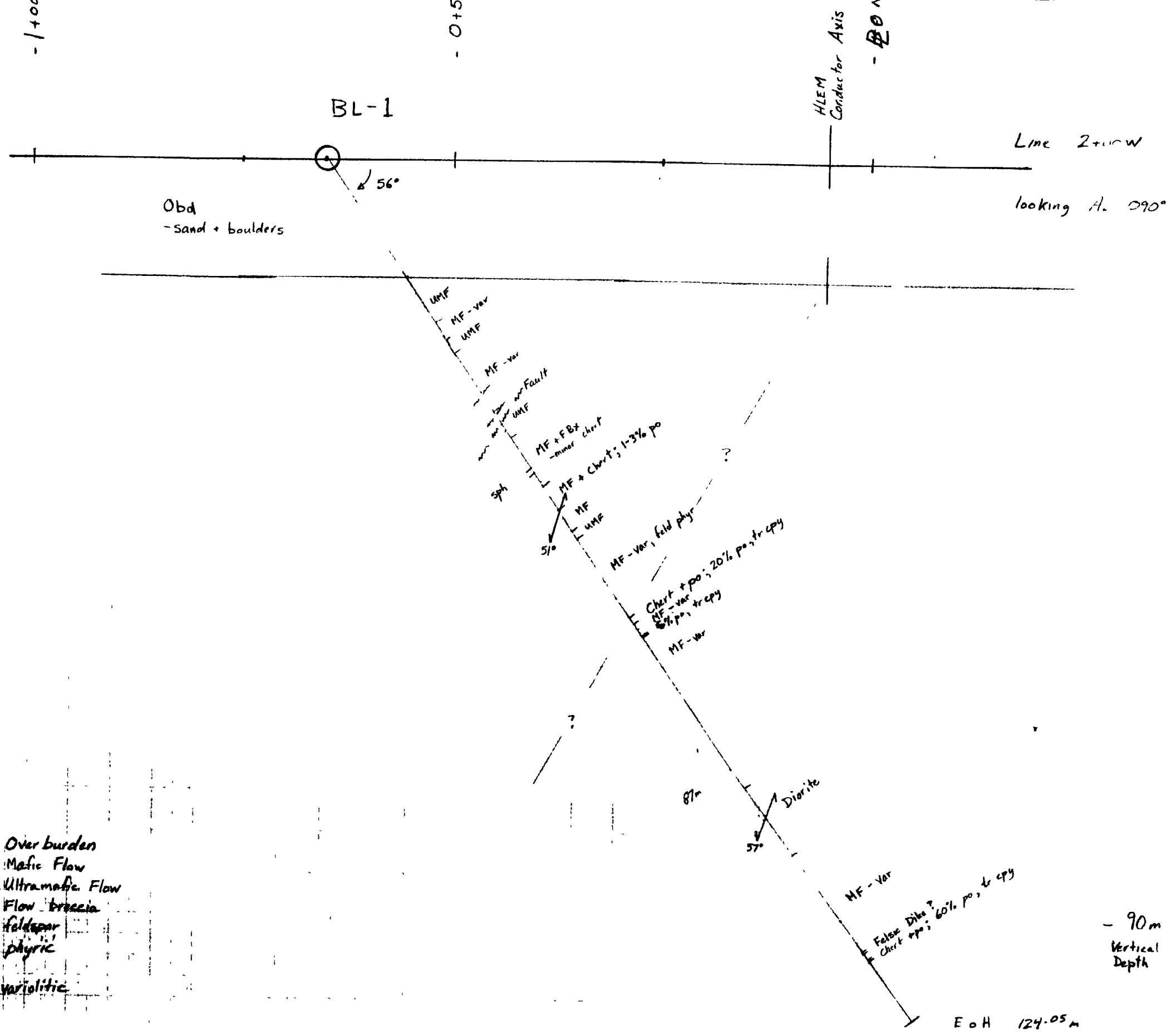
GRANGES INC.

BETTY LAKE PROJECT #538

DRILL HOLE

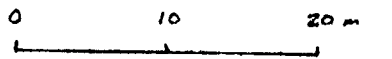
LOCATION MAP

1:2500 HM 03/20/93



KEY:

- Obd Overburden
- MF Mafic Flow
- UMF Ultramafic Flow
- FBx Flow breccia
- feld feldspar
- phyr phyr
- var variolitic



- 90m
Vertical
Depth

EoH 124.05m

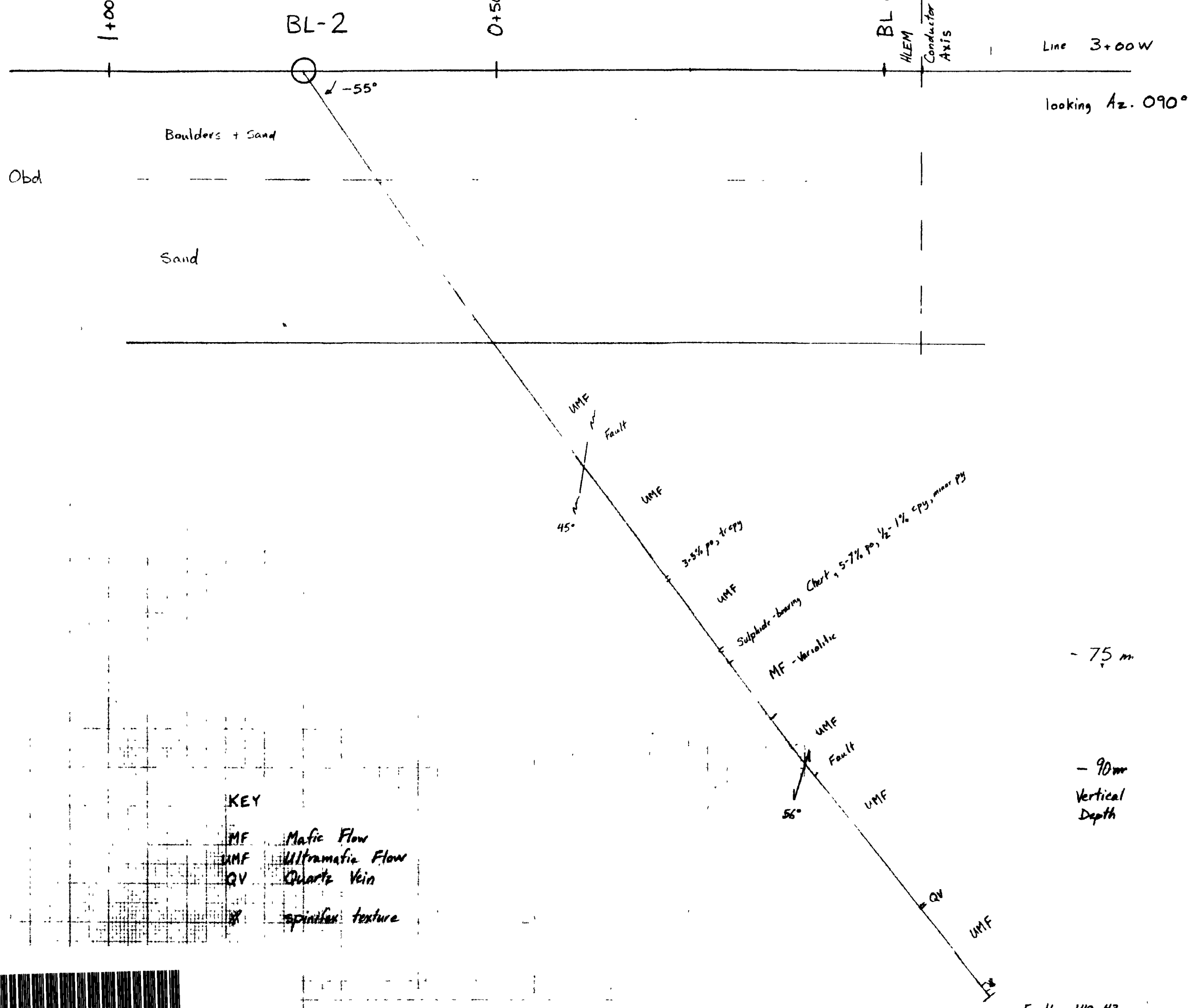
GRANGES INC
BETTY LAKE PROJECT #538

IDH CROSS-SECTION BL-1
2+10W / 0+65N 180°/-56°
Collared on Claim #189587

1:500 N/A March 1993



41010NW0003 WB460 00127 TOOMS



KEY

MF	Mafic Flow
UMF	Ultramafic Flow
QV	Quartz Vein
	spinel texture

GRANGES INC.
 BETTY LAKE PROJECT #538
 DDH Cross-section BL-2
 3+00W 0+75 N 180°/-55°
 Collared on Claim 1189587
 1:500 HM March 1993



230

E.H 148.43 m



400 NORTH

300

400

300

POND

400

MAIN ROAD

400 NORTH

300 NORTH

POND

1189507

300 NORTH

200 NORTH

DRIVE

200 NORTH

LAKE

100 NORTH

1189506



41010NW0003 W0460 00127 TOOMS

240