010

# Diamond Drilling

Township of German

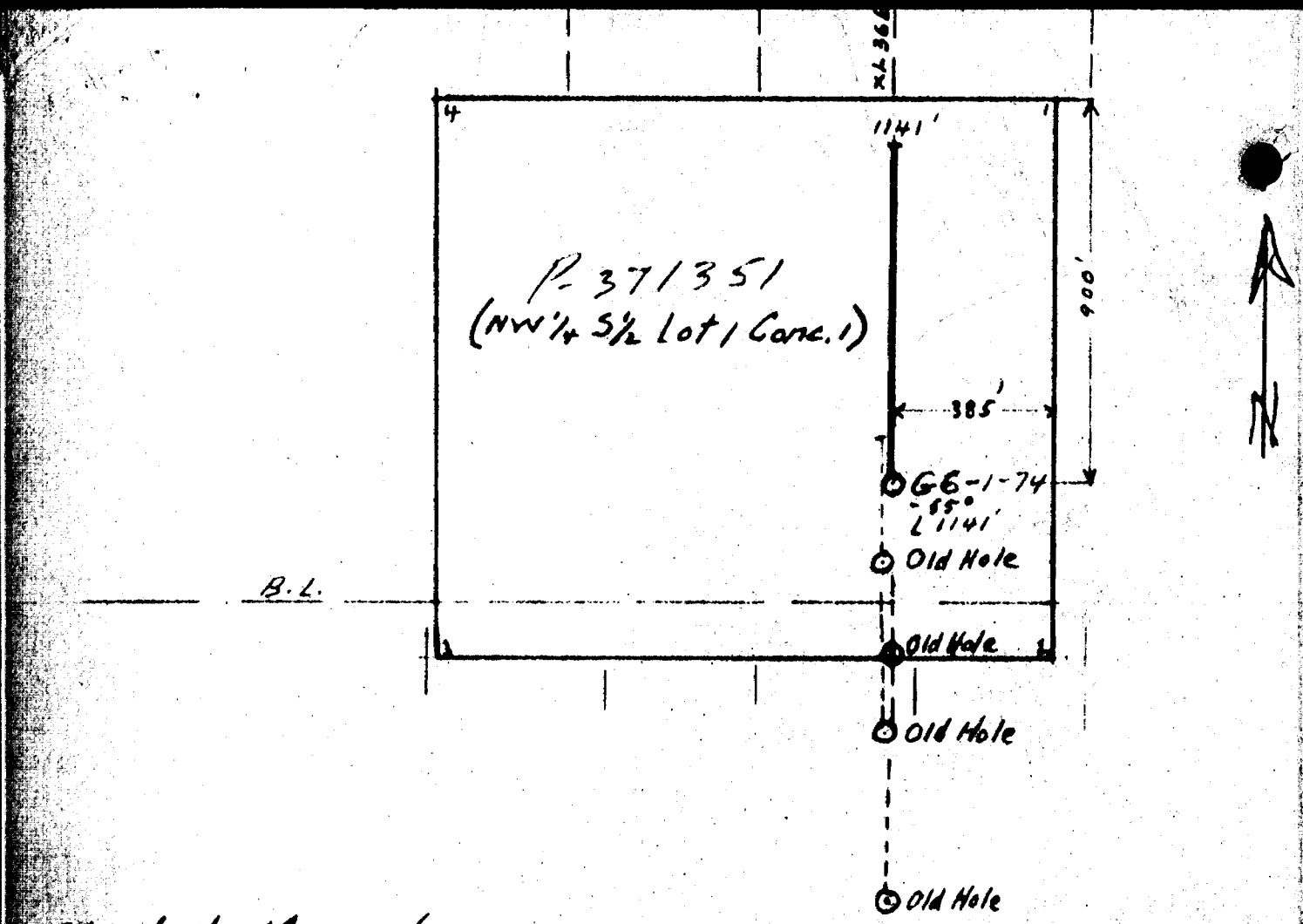
Report Nº: 12

Work performed by: Hollinger Mines Ltd.

| Claim Nº | Hole Nº | Footage | Date | Note |
|---|---|---|---|---|
| P 371351 | G(E)6-1-74 | 1141' | May /74 | (1) |

Notes:

(1) 138/74




Started - May 21/74
Finished - " 29/74
AQ Core (Wire Line)
Bradley Bros. Ltd. Timmins

# PLAN SHOWING LOCATION OF DDH #G6-1-74

CLAIM P. 371351 GERMAN TWP
ONTARIO
Scale - 1" = 400'

#138.

W. H. Hansen
HOLLINGER MINES LIMITED
TIMMINS, ONTARIO

Location of Collar from #1 Post of P-371351 South 900' West 385'

FORM 527

# DIAMOND DRILL REPORT

NORTH 3+00N
EAST 3+38E
ELEV. Surface
AZIM. Grid North - 0°
DIP Collar - 55° - 200' - 53.5° - 400' - 49.5° - 600' - 47° - 800' - 46° - 1000' - 23°

PROPERTY GERMAN #6 GROUP
Claim P-371351 German Township

HOLE NO. GS6-1-74
COMMENCED May 21, 1974
FINISHED May 23, 1974
PURPOSE OF HOLE Cross section Temiskaming age conglomerate & sediments
Drilled by Tri Alley Bros.

| FROM | TO | DESCRIPTION | CORE SAMPLES FROM | TO | RECOV. | WIDTH | ASSAY | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|---|---|---|---|
| 0 | 138 | Casing. | | | | | | Grabs for Au |
| 138 | 1141 | Temiskaming conglomerate - generally | | @ 145 | | | | Some CO3 + rust in cs cgl tr.py |
| | | grey in colour but there is some variation | 166 | 167 | | 1 | | 1-½" qtz str, 1-½" str. both w. marginal rust in fine cgl. |
| | | to greenish and buff depending upon the | | | | | | |
| | | type and amount of prevailing alteration. | 172 | 173 | | 1 | | Coarse py - 7% in fine cgl. |
| | | The conglomerate is characterized by | 188 | 189 | | 1 | | " " in buff band - fine cgl |
| | | coarse conglomeritic units generally aver- | 195 | 196 | | 1 | | 2 narrow clear strs in fine cgl |
| | | aging about 5 feet in width, separated by | 202.5 | 203.5 | | 1 | | Albitite strs or frags in cs cgl tr.py |
| | | 5 to 10 feet of finer material. Fragments | 220 | 225 | | 5 | | Cs cgl, buff frags w. py plus a couple of albitite frags? |
| | | (or pebbles) are very common in the coarse | | | | | | |
| | | units and show a wide variety of sizes and | 242 | 243 | | 1 | | Dissem. py in buff fine cgl. |
| | | shapes. Normally the frag. nts are about | 262 | 264 | | 2 | | Few strs here, some bx of cs cgl |
| | | an inch in size but numerous fragments | | @ 272 | | | | Grab rusty str. |
| | | from 1/8" to ½" are common. The finer con- | 284 | 285 | | 1 | | 1.5" qtz str w.yell ser in cs cgl |
| | | glomerate sections only bear fragments | 300 | 302 | | 2 | | Qtz str along core, some shearing some albitite in cs cgl. |
| | | between 1/8 and ½" in size, appearing more | | | | | | |
| | | like units with scattered fragments. | 328 | 330 | | 2 | | Few qtz strs, albitite frag, tr.py in cs cgl. |
| | | Types of fragments include: black frag- | | | | | | |
| | | ments, very dark green to grey green chlo- | 330 | 332 | | 2 | | Fine cgl, buff, few traces py |
| | | ritic fragments, green chloritic fragments, | 332 | 335 | | 3 | | Some rusty ankerite, qtz strs, tr.py in cs cgl. |
| | | bright green fuchsitic fragments, chlorite | 335 | 336 | | 1 | | ½" qtz, minor py in cs cgl |
| | | fragments mixed with fuchsite, clear to | 336 | 338 | | 2 | | Buff unit - minor py |
| | | white qtz fragments, grey cherty and buff | | | | | | |
| | | cherty fragments. The cherty and qtz frag- | | | | | | |
| | | ments are usually more oval to subrounded | | | | | | |
| | | in shape than the chlorite type fragments | | | | | | |

FORM 822

NORTH
EAST.
ELEV.
AZIM.
DIP

# DIAMOND DRILL REPORT

PROPERTY GERMAN #6 GROUP
German Township

HOLE NO. GE6-1-74
COMMENCED
FINISHED
PURPOSE OF HOLE

| FROM | TO | DESCRIPTION | CORE SAMPLES FROM | TO | RECOV. | WIDTH | ASSAY | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|---|---|---|---|
| | | which are elongated and very irregular, | | | | | | |
| | | but the two types are well mixed together. | 338 | 340 | | 2 | | Buff unit - tr.py, fine cgl. |
| | | The matrix of the conglomerate is ap- | 340 | 345 | | 5 | | Cs cgl diss.py minor qtz as frag? |
| | | proximately 90% quartz - consisting of | 352 | 353 | | 1 | | Some py in fine cgl. |
| | | elastic grains surrounded by alteration. | 377 | 378 | | 1 | | Cs cgl w. tr.py lots qtz in matrix |
| | | The buff coloured sections attributed to | 416 | 417 | | 1 | | Fine cgl - qtz str - 2" tr.py |
| | | sericite alteration in the matrix; the | 455 | 456 | | 1 | | Qtz str. along core in fine cgl. |
| | | green to grey green sections show chlorite | 460 | 462 | | 2 | | Accessory qtz & qtz pebbles in cs cgl tr.py |
| | | predominating. Due to changes in alter- | | | | | | |
| | | ation - which usually have sharp contacts - | 468 | 470 | | 2 | | Cherty frags in cs cgl - some w. py, 1 w. po |
| | | a crude, widely-spaced banding is develop | | | | | | |
| | | at 55° to the core. Fragment elongation | 488 | 489 | | 1 | | Cherty frag w. py in fine cgl. |
| | | is a bit more variable but would seem to | 512 | 513 | | 1 | | Tr.py in cs - fine cgl zone. |
| | | average 55° to the core. | 528 | 529 | | 1 | | Few cubes of py around a 1" chl. frag in fine cgl. |
| | | Stringers in the conglomerate are quite | | | | | | |
| | | rare, and narrow when seen. Only white qtz | | | | | | |
| | | stringers were noted. A couple of rusty | | | | | | |
| | | stringers were intersected and some rem- | | | | | | |
| | | nant carbonitization remains. Traces of | | | | | | |
| | | pyrite usually noted with these rusty strs. | | | | | | |
| | | Sulphides in the conglomerate are quite | | | | | | |
| | | scattered and tend to show an affinity for | | | | | | |
| | | the buff coloured sections. At the first | | | | | | |
| | | of the hole only pyrite was noted - usually | | | | | | |
| | | coarsely disseminated and quite localized | | | | | | |
| | | in extent - rarely fine pyrite. | | | | | | |

FORM 822

NORTH
EAST
ELEV.
AZIM.
DIP

# DIAMOND DRILL REPORT

PROPERTY GERMAN #6 GROUP
German Township

HOLE NO. GE6-1-74 3.
COMMENCED
FINISHED
PURPOSE OF HOLE

| FROM | TO | DESCRIPTION | CORE SAMPLES FROM | TO | RECOV. | WIDTH | ASSAY | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|---|---|---|---|
| | | 203-203.3 - 2 albitite fragments or | | | | | | |
| | | stringers - there are clearly feldspar | 552 | 553 | | 1 | | Albitite frag - tr.py in cs cgl. |
| | | phenocrysts here. Some cross fracturing | 562 | 563 | | 1 | | White albititic str - cutting an older clear grey stringer - some py here. |
| | | with clear sericite or muscovite. | | | | | | |
| | | After 275 the coarser conglomerate | 567 | 568 | | 1 | | Tiny py str. tr.sph. - fine cgl. |
| | | appears more frequently along the core - | 591 | 592 | | 1 | | 1-½" grey qtz str in fine cgl. |
| | | widths averaging 5 to 7 feet with 5 to 7 | 617 | 618 | | 1 | | Albitite frag or str just cutting core - fine cgl on either side. |
| | | feet units of finer conglomerate in betwee | | | | | | |
| | | 372.1-372.8 - a bit of banding at 55° | 631 | 632 | | 1 | | Narrow str - center is milky qtz w. a tr. of CO3 - marginal grey qtz. |
| | | in the fine conglomerate - no cross beddin | | | | | | |
| | | - some mica. | 671.5 | 672.5 | | 1 | | 10% py in fine cgl. |
| | | @ 469.8 one cherty fragment here with | 675 | 677 | | 2 | | Some broken core w. leaching. |
| | | some disseminated pyrrhotite-magnetic. | 720 | 721 | | 1 | | Bleached buff pyritic band in fine cgl. |
| | | After 500, fragments are a bit more | | | | | | |
| | | scattered in the coarse conglomerate - and | 726 | 727 | | 1 | | Str w. po - non-magnetic - ½" |
| | | smaller in size on the average too. | 746.5 | 747.5 | | 1 | | 1" milky qtz str in cs cgl. |
| | | At 552 one new type fragment - lavender | 763 | 764 | | 1 | | Qtz str w. tr.py in fine cgl. |
| | | center with a yellowish sericitic rim. One | 780 | 781 | | 1 | | Coarse cgl - one albitite pebble + some qtz pebbles. |
| | | albitite fragment @ 552.5. | | | | | | |
| | | @ 567.5 trace of reddish sphalerite with | 823 | 824 | | 1 | | 7% po in fine cgl. |
| | | a tiny pyrite stringer. | 848 | 849 | | 1 | | Narrow grey qtz str - ¼" in fine cgl. |
| | | 561.4-562.5 - narrow 1/8" albitite str? | 853 | 854 | | 1 | | Milky qtz str ½" + few fine qtz strs - one albitite frag. |
| | | cuts across a grey quartz stringer. | | | | | | |
| | | As we proceed along the hole here the | 855 | 858 | | 3 | | Scattered fine strs of milky qtz some w. traces of py. |
| | | ~~fragment elongation seems to have steepened~~ | | | | | | |
| | | somewhat to about 65°. Fragment elongation | | | | | | |

FORM 8SE

NORTH
EAST
ELEV.
AZIM.
DIP

# DIAMOND DRILL REPORT

PROPERTY GERMAN #6 GROUP
German Township

HOLE NO. GE6-1-74 4.

COMMENCED
FINISHED
PURPOSE OF HOLE

| FROM | TO | DESCRIPTION | CORE SAMPLES FROM | TO | RECOV. | WIDTH | ASSAY | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|---|---|---|---|
| | | is not consistent along the hole though | | | | | | |
| | | and any banding noted is still around 55°. | 865 | 866 | | 1 | | cs cgl - some po in a qtz pebble |
| | | 676-676.6 - some bleaching to a buff | 876 | 877 | | 1 | | Narrow grey qtz str - some milky qtz in center. |
| | | colour with some broken core. | | | | | | |
| | | From 773 to 784 short section here with | 878 | 879 | | 1 | | Narrow grey qtz str as 876-877 tr.py |
| | | some of the most spectacular looking con- | 921 | 922 | | 1 | | Narrow dark qtz str. w. an assoc chl.-ser. slip. |
| | | glomerate to date in the hole. Pebbles are | | | | | | |
| | | on the average to 1" in size and usually | 951 | 952 | | 1 | | 2" milky qtz - fine cgl. |
| | | subrounded in shape. Due to the higher per- | 980 | 981 | | 1 | | some broken core - bleaching |
| | | centage of qtz and light grey chert pebbles | 1020 | 1021 | | 1 | | 1" grey qtz str along core here - marginal sericitic leaching. |
| | | with irregular bright green fuchsite-chlo- | | | | | | |
| | | rite pebbles (or fragments), the rock has | 1022 | 1023 | | 1 | | ½" band of po. |
| | | a very striking appearance. | 1023 | 1025 | | 2 | | Hairline slip w. chlorite, tr.po some po in one frag. |
| | | After 500 most of the fragments have | | | | | | |
| | | been small - generally ¼" but up to ½", | 1042 | 1043 | | 1 | | 1" mass po frag in fine cgl. |
| | | and even in the coarse conglomerate sec- | 1063 | 1064 | | 1 | | ½" grey qtz str. |
| | | tions fragments are more scattered than | 1068 | 1069 | | 1 | | ½" milky qtz str. some py, some very fine sulphides. |
| | | early in the hole. After this short unit | | | | | | |
| | | (773-784) we return to having only scattered | 1075.5 | 1076.5 | | 1 | | Narrow milky qtz str - 1/8" |
| | | fragments which average ¼"-½" in size. | 1087 | 1088 | | 1 | | Narrow milky qtz str in cs cgl. |
| | | @ 726.7 non-magnetic stringer of | 1089 | 1090 | | 1 | | 3 or 4 fragments with sulphides - po and py |
| | | pyrrhotite - ½". | | | | | | |
| | | 823.7-824 - some irregular drag folded(?) | | | | | | |
| | | pyrrhotite - non-magnetic. | | | | | | |
| | | 979.5-981 some broken core slightly | | | | | | |
| | | bleached. 999.1-1000 ground - lost core. | | | | | | |

FORM 872

NORTH
EAST.
ELEV.
AZIM.
DIP

# DIAMOND DRILL REPORT

PROPERTY GERMAN #6 GROUP
German Township

HOLE NO. GE6-1-74
COMMENCED
FINISHED
PURPOSE OF HOLE

| FROM | TO | DESCRIPTION | CORE SAMPLES FROM | TO | RECOV. | WIDTH | ASSAY | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|---|---|---|---|
| | | @ 1022.3 - ¼" band of po - non-magnetic. | | | | | | |
| | | @ 1042.4 - 1" massive po fragment - | 1100 | 1102 | | 2 | | G - coarse - chert pebbles etc. |
| | | non-magnetic. | 1102 | 1105 | | 3 | | " fine - one hairline fract. W. ser. |
| | | At 1089.3 there are 3 or 4 fragments | 1105 | 1107 | | 2 | | " fine - few frags. |
| | | here with sulphides. One fragment - sub- | 1107 | 1110 | | 3 | | " fine - 1 grey qtz str, one hl fract. |
| | | rounded black chert in mantle and core | | | | | | |
| | | with an inside rim of pyrite. Three other | 1110 | 1112 | | 2 | | " 1 grey and milky str. |
| | | fragments here of pyrrhotite with chloritic | 1112 | 1115 | | 3 | | " qtz pebbles, minor po tr.py |
| | | rims. The po is not magnetic as previous. | 1115 | 1117 | | 2 | | " few coarse pebbles |
| | | @ 1113.9 - 3 more po fragments, 2 are | 1117 | 1120 | | 3 | | " fine. |
| | | similar to above - one is concentrically | 1120 | 1122 | | 2 | | " fine. |
| | | banded. | 1122 | 1125 | | 3 | | " fine. |
| | | @ 1134 - ½" massive po fragment. | 1125 | 1127 | | 2 | | " 1" milky qtz str - 2 narrow grey strs. |
| | | @ 1138 - ¼" massive po fragment. | | | | | | |
| | | In summary, the entire hole was drilled | 1127 | 1130 | | 3 | | " fine. |
| | | in conglomerate of Temiskaming age. The | 1130 | 1132 | | 2 | | " few chert frags. |
| | | large variety of fragments is indicative | 1132 | 1135 | | 3 | | " couple of grey strs, po frag. |
| | | of how heterogeneous this unit is. | 1135 | 1138 | | 3 | | " few narrow grey str, tr.po |
| | | There appears to have been a modest | 1138 | 1141 | | 3 | | " few narrow grey strs. |
| | | degree of sorting in the conglomerate as | | | | | | |
| | | experienced by the coarse and fine units | | | | | | |
| | | which individually possess fragments of | | | | | | |
| | | nearly all the same size. | | | | | | |
| | | A problem arises, however, concerning | | | | | | |
| | | the derivation of the pebbles in the con- | | | | | | |
| | | glomerate. It would seem that the matrix | | | | | | |

FORM 822

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# DIAMOND DRILL REPORT

PROPERTY GERMAN #6 GROUP
German Township

HOLE NO. GB6-1-74
COMMENCED
FINISHED
PURPOSE OF HOLE

| FROM | TO | DESCRIPTION | CORE SAMPLES FROM | TO | RECOV. | WIDTH | ASSAY | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|---|---|---|---|
| | | constituent plus the well rounded quarts and chert pebbles have endured prolonged transport. On the other hand, the chlorite and fuchsite fragments are very irregular in shape and most certainly could not have survived a similar transport - thus the suggestion that the chlorite and fuchsite fragments have been more locally derived. It follows then, that the matrix of the conglomerate should contain a relatively high percentage of chlorite-fuchsite if these fragments are locally derived. Unfortunately, the conglomerate is very clean - the matrix being almost completely composed of quartz grains - thus the question of source materials. | | | | | | |
| | | Stringers in the conglomerate are quite rate, and all noted were quartz. There appears to have been two separate eras of injection - | | | | | | |
| | | (1) the older, clear to grey quartz stringers which often have a central core of (2) later milky quartz, which locally seems to contain minor feldspar. On one occasion a narrow milky stringer was seen to crosscut and irregularly offset a | | | | | | |

FORM 822

NORTH
EAST
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DIP

# DIAMOND DRILL REPORT

PROPERTY GERMAN #6 GROUP
German Township

HOLE NO. GE6-1-74

COMMENCED
FINISHED
PURPOSE OF HOLE



| FROM | TO | DESCRIPTION | CORE SAMPLES FROM | TO | RECOV. | WIDTH | ASSAY | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|---|---|---|---|
| | | hairline grey stringer. Locally stringers | | | | | | |
| | | may bear pyrite but this is not normally | | | | | | |
| | | the case. | | | | | | |
| | 1141 | END OF HOLE. | | | | | | |

E D MacKenzie
HOLLINGER MINES LIMITED
TIMMINS, ONTARIO

FORM 522

NORTH
EAST.
ELEV.
AZIM.
DIP

# DIAMOND DRILL REPORT

PROPERTY GERMAN #6 GROUP
German Township

HOLE NO. GE6-1-74
COMMENCED
FINISHED
PURPOSE OF HOLE

| FROM | TO | DESCRIPTION | CORE SAMPLES FROM | TO | RECOV. | WIDTH | ASSAY | DESCRIPTION OF SAMPLE |
|---|---|---|---|---|---|---|---|---|
| | | GEOCHEMISTRY and THIN SECTION | | | | | | |
| G + TS | 150 | Edge of one coarse conglomerate band. | | | | | | |
| G + TS | 250 | Finer conglomerate with some buff alteration tr. py narrow str. | | | | | | |
| G + TS | 350 | Coarse conglomerate, tr. py. | | | | | | |
| G + TS | 450 | Finer edge of coarse band. | | | | | | |
| G + TS | 550 | Lower edge of fine cgl. section. | | | | | | |
| G + TS | 650 | Fine conglomerate few small fragments. | | | | | | |
| G + TS | 750 | Conglomerate - ¼" pebbles. | | | | | | |
| G + TS | 850 | Large cherty fragment (2") in fine(?) cgl. | | | | | | |
| G + TS | 950 | Fine conglomerate - scattered fragments. | | | | | | |
| G + TS | 1050 | Fine conglomerate - grey. | | | | | | |
| TS | 1140 | Fine phase of conglomerate. | | | | | | |