# DIAMOND DRILL RECORD

LOGGED BY STANLEY B. REAMSBOTTOM 016217 D.D.H. Nº 76-2 PAGE 1

PROPERTY VANGORDA MINES (Drilled by C.N.R)

LATITUDE 8S STARTED JULY 20, 1976

DEPARTURE 16W COMPLETED JULY 27, 1976

ELEVATION 3875 ft PROPOSED DEPTH OPEN

ULTIMATE DEPTH 1108 ft

HOLE SURVEY:

| DEPTH | BEARING | DIP |
|---|---|---|
| 0 | | - 90° |
| | | |
| | | |
| | | |
| | | |

76-2

CHAMP 2

N

DIRECTION AND DISTANCE FROM N.E. CLAIM POST

CLAIM Nº CHAMP 2

| Interval From | Interval To | DESCRIPTION | Recovery | Sample Nº | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 42 ft | OVERBURDEN | | | | | | | | | | | | | |
| 42 | 105 | GREEN & WHITE STRIPPED CH-CALCITE-TALC SCHIST. | 98% | | | | | | | | | | | | |
| | | Probably meta-tuff or volcanic. White cc-talc rich laminae | | | | | | | | | | | | | |
| | | (0-0.5cm) alternate with green ch-rich laminae. Cc is poss- | | | | | | Ch-cc-scst unit probably sub-vertical | | | | | | | |
| | | ibly alter plagioclase? Note $F_1$ $F_2$ relationship. $F_1$ mainly | | | | | | | | | | | | | |
| | | parallel to core. | | | | | | | | | | | | | |
| | | CA: 60, $F_2$=65; 80=$F_1$ sub-v, $F_2$ 70, 100=$F_1$ sub-v, $F_2$ 61. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 105 | 110 | GREY-IMPURE-LIMY PHYLLITE | | | | | | | | | | | | | |
| | | Quite rich in dark-gray cc xtals. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 110 | 1103 | THICK SECTION OF BLACK-STRIPPED QUARTZ-GRAPHITIC PHYLLITE | | | | | | | | | | | | | |
| | | Thin (1-2mm) qu-laminae alternate with black graphitic laminae | 2 | | 120 | 130 | | | | | | | | | |
| | | $F_2$ foliation is dominant throughout section. Local small-scale | | | | | | | | | | | | | |
| | | $F_2$ fold noses. Blebs and stringers of Po and Py throughout. | | | | | | | | | | | | | |
| | | section. Stringers of Sphalerite at 394-95' at 561 with Po | | | | | | | | | | | | | |
| | | in $F_1$ laminae; at 564' similarly with po; | | | | | | | | | | | | | |

LOGGED BY _____ D.D.H. No 76-2 PAGE 2

| Interval From | Interval To | DESCRIPTION | Recovery | Sample No | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Note small-fault bx 634 : healed with carb veins. Abundant | | | | | | | | | | | | | |
| | | Po in quartz veins at 653'. Rock poker-chipped 690-710' | 7' | | 696 | 712 | 16 | | | | | | | | |
| | | Blebs, stringers po-py-cpy : $F_2$ dominant 727-742 | | | | | | | | | | | | | |
| | | Many small-scale $F_2$ 760-816 | | | | | | | | | | | | | |
| | | " " " " " 866-943 | | | | | | | | | | | | | |
| | | $F_2$ dominant rest of section. Above areas or zones possibly | | | | | | | | | | | | | |
| | | near fold noses of larger scale. | | | | | | | | | | | | | |
| | | Section rich in po from 810 on. Po either in blebs with qu- | | | | | | | | | | | | | |
| | | veins, or concentrated in $F_1$ laminae. Locally as much as | | | | | | | | | | | | | |
| | | 5% sulphide in 0.5 to 1 foot sections. Section quartz-rich | | | | | | | | | | | | | |
| | | 880-970. Quartz in veins, stringers, or $F_1$ laminate which | | | | | | | | | | | | | |
| | | have been folded.In this section there are two thin (0.5-1') | | | | | | | | | | | | | |
| | | zones of white " bleached "? quartz-sericite phyllite at | | | | | | | | | | | | | |
| | | 963.5-964, and 968-69. Note from 1000' - 1103 $F_2$ dominant | | | | | | | | | | | | | |
| | | Po blebs have pressure-shadows of quartz. Locally up to 4% | | | | | | | | | | | | | |
| | | Po in this part of section. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | CA: 120=65, 140=67, 160=83, 180=60,200=62, 220=52, 240=56, | | | | | | | | | | | | | |
| | | 260=61, 280=46, 300=50 : F vert most of last 300' : 320=65, | | | | | | | | | | | | | |
| | | 340=66, 360-50, 380=45, 400=53, 420=62, 440=50, 460= Rock | | | | | | | | | | | | | |
| | | broken gouged : 470=60, 480=66, 500=65; 520=62; 540=56, | | | | | | | | | | | | | |
| | | 560=60, 580=50; 600=70, 620=82; 640=62, 660-67, 680=81, 700-55 | | | | | | | | | | | | | |

| Interval From | Interval To | DESCRIPTION | Recovery | Sample No | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $F_2$ dominant : 720=84, $F_1$ vertical; 740=75, 760=80, 780=60, 800=74, | | | | | | | | | | | | | |
| | | 820=75. $F_1$ vertical folded; 840=80 $F_1$ vertical; 860=66 $F_1$ | | | | | | | | | | | | | |
| | | vertical; 880=75 $F_1$ vertical folded; qu veins etc; 900=78, | | | | | | | | | | | | | |
| | | $F_1$ folded; 920=65 $F_1$ folded; 940=74, $F_1$ vertical; 960=65; | | | | | | | | | | | | | |
| | | 980=80, 1000=74; Po blebs with p-shadows; 1020=87, $F_1$ vertic. | | | | | | | | | | | | | |
| | | 1040=76, 1060=77; 1080=70; $F_3$ kink, 1100=80 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 1103 | 1108 | PALE WHITE-GREEN-BROWN, QU-SER-CH-BIO SCHIST. | | | | | | | | | | | | | |
| | | Note rosebud green chlorite after trem-ctinolite, suspect | | | | | | | | | | | | | |
| | | rock calc silicate affinities. | | | | | | | | | | | | | |
| | | Minor blebs stringers of Po-cpy. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | 1108 | END OF HOLE | | | | | | | | | | | | | |

# DIAMOND DRILL RECORD

LOGGED BY STANELY B. REAMSBOTTOM D.D.H. Nº 76-3 PAGE 1

PROPERTY VANGORDA MINES (drilled by C.N.R)

LATITUDE 24S STARTED July 28, 1976

DEPARTURE 8W COMPLETED July 31, 1976

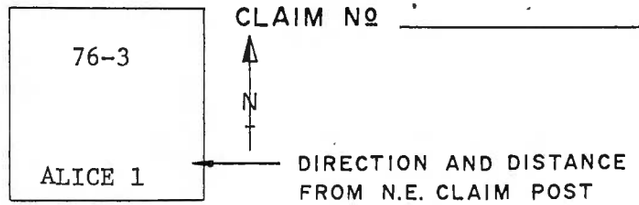
ELEVATION 3560 ft PROPOSED DEPTH Open

ULTIMATE DEPTH 647 ft

CLAIM Nº

HOLE SURVEY:

| DEPTH | BEARING | DIP |
|---|---|---|
| 0 | 0 | -90° |
| | | |
| | | |
| | | |
| | | |




| Interval From | Interval To | DESCRIPTION | Recovery | Sample Nº | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 14 ft | OVERBURDEN | | | | | | | | | | | | | |
| 14 | 44 | PALE GREEN WHITE STRIPPED QU-CC-CHLORITE SCHIST OR PHYLLITE. | | | | | | | | | | | | | |
| | | Thinly banded rock white-qu+cc laminae alternate with | | | | | | | | | | | | | |
| | | chlorite-rich laminae. Note white-cc occurs in late vein, | | | | | | | | | | | | | |
| | | fracture fillings. CA: 20=50, 40=65. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 44 | 593 | GREY-GREENISH STRIPPED QU-CC-SER CHLORITE PHYLLITE. | | | | | | | | | | | | | |
| | | Thin (1-2mm) laminae of white qu-cc (limy) alternate with | | | | | | | | | | | | | |
| | | grey greenish ser-ch laminae. Many tension-gashes filled | | | | | | | | | | | | | |
| | | with white qu-cc. Rock locally veined by white qtz (0.5-2' | | | | | | | | | | | | | |
| | | thick) which often has associated green chlorite. Minor | | | | | | | | | | | | | |
| | | blebs, stringers, of py, po. Healed bx zones at 116-118; | Excellent | | | | | | | | | | | | |
| | | $F_3$ fold nose zone-120-67. $F_2$ lamination locally parallels | 95-98% | | | | | | | | | | | | |
| | | core axis. Monoclinae or box-kink fold late stage. $F_2$ | | | | | | | | | | | | | |
| | | dominant foliation throughout. $F_1$ vert to $F_2$ 420-80 | | | | | | | | | | | | | |
| | | conspicuous and 538-45! | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

LOGGED BY _____ D.D.H. No 76-3 PAGE 2

| Interval From | Interval To | DESCRIPTION | Recovery | Sample No | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CA: 60=50, 80=52, 100=55, rock broken; 120=70, 140=30 $F_3$ | | | | | | | | | | | | | |
| | | fold noses, 160=50; 180=56, 200=62, 220=55, 240=65, 260=50, | | | | | | | | | | | | | |
| | | 280=62, 300=52 rock broken 290-305, 320=37, 340=67, 360=61, | | | | | | | | | | | | | |
| | | 380=69, 400=75, 420=63, $F_1$ sub-vert. 440=70, $F_1$ sub-vertical | | | | | | | | | | | | | |
| | | 460=60, 480=62, $F_1$ sub-vert, 500-76, 520=70, 540=66, $F_1$ sub-v | | | | | | | | | | | | | |
| | | 560=76, 580=76, 600=65. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 593 | 630 | DARK GREEN + WHITE MOTTLED CH-TALC-CC SCHIST - META VOLC | | | | | | | | | | | | | |
| | | GREENSTONE. | | | | | | | | | | | | | |
| | | Ch-rich rock-quite limy-possible cc after breakdown of feld- | | | | | | | | | | | | | |
| | | spar in original volcanic unit? Blebs of py; po locally. | | | | | | | | | | | | | |
| | | CA: 620=80, $F_1$ sub-vertical. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 630 | 647 | GREEN-WHITE STRIPPED QU-CC-CH SCHIST OR PHY. (MINOR TALC) | | | | | | | | | | | | | |
| | | Rock similar to unit at top of hole. Minor po in blebs. | | | | | | | | | | | | | |
| | | CA: 640=56° | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | 647 | END OF HOLE. | | | | | | | | | | | | | |
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# DIAMOND DRILL RECORD

LOGGED BY STANLEY B. REAMSBOTTOM D.D.H. Nº 76-4 PAGE 1

PROPERTY VANGORDA MINES

LATITUDE 21+50 S STARTED AUGUST 3/1976

DEPARTURE 32W COMPLETED AUGUST 6/1976

ELEVATION 3760 PROPOSED DEPTH OPEN

ULTIMATE DEPTH 678'

HOLE SURVEY:

| DEPTH | BEARING | DIP |
|---|---|---|
| 0° | | 90° |
| | | |
| | | |
| | | |
| | | |

76-4

CHAMP 1

N

DIRECTION AND DISTANCE FROM N.E. CLAIM POST

CLAIM Nº

| Interval From | Interval To | DESCRIPTION | Recovery | Sample Nº | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 47 | Overburden: Granitic boulders drilled through | | | | | | | | | | | | | |
| 47 | 57 | GREEN Cc-Ch-SCST±TALC Meta-volcanic greenstone | | | | | | | | | | | | | |
| | | CA. 50'=$F_1$=360: | | | | | | | | | | | | | |
| 57 | 60 | BLACK GRAPHITIC PHYLLITE : | 1 | | 56 | 60 | | 4 | | | | | | | |
| | | Poker chip CA: 54'=$F_2$=85 | | | | | | | | | | | | | |
| 60 | 66 | GREEN CE-CH ± TALC SCST. | | | | | | | | | | | | | |
| | | Meta-greenstone. Note: Thin (0.5-3in) quartz veins | | | | | | | | | | | | | |
| | | CA=60=$F_2$ fold nose! $F_2$=85 | | | | | | | | | | | | | |
| 66 | 74 | BLACK GRAPHITIC PHYLLITE | | | | | | | | | | | | | |
| | | Rusty weathering, minor py-po. Poker chip texture. | | | | | | | | | | | | | |
| | | CA: 70=$F_2$=55. | | | | | | | | | | | | | |

LOGGED BY _____ D.D.H. Nº _____ PAGE 2

| Interval From | Interval To | DESCRIPTION | Recovery | Sample Nº | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74 | 110 | GREEN-STRIPED CC-CH + TALC SCHIST. | | | | | | | | | | | | | |
| | | Meta-volcanic greenstone. Good $f_1$, $F_2$ relationship: $F_1$ | | | | | | | | | | | | | |
| | | sheeply dipping; locally folded in small scale. $F_2$ folds | | | | | | | | | | | | | |
| | | EG. 79, 92, 109 CA: 80=$F_1$, $F_2$=65, 90=$F_2$ 75 fold | | | | | | | | | | | | | |
| | | 100=$F_2$ 76. | | | | | | | | | | | | | |
| 110 | 125 | BLACK GRAPHITIC PHYLLITE: | | | | | | | | | | | | | |
| | | Poker-chip texture. Small blebs of po with qu-auger pressure | | | | | | | | | | | | | |
| | | Shadows at 117-118. CA: 110=57; 120=80 | | | | | | | | | | | | | |
| 125 | 142 | GREEN-WHITE STRIPED CC-CH + TALC SCHIST | | | | | | | | | | | | | |
| | | Meta-volcanic greenstone. Small-scale $F_2$ at 130, 138 | | | | | | | | | | | | | |
| | | CA: 130=$F_1$ =40, $F_2$=85 same dip; 140=$F_2$ 55 | | | | | | | | | | | | | |
| 142 | 148 | BLACK QUARTZ-GRAPHITIC PHYLLITE | | | | | | | | | | | | | |
| | | Slightly more quartz veins than above units. Bleb of po in | | | | | | | | | | | | | |
| | | quartz vein at 143' CA: 145 $F_1$,$F_2$=70 opposite dip. | | | | | | | | | | | | | |
| 148 | 188 | GREEN-WHITE STRIPED CC-CH + TALC SCHIST | | | | | | | | | | | | | |
| | | Meta-volcanic greenstone unit $F_2$ folds at 158, 164 | | | | | | | | | | | | | |
| | | CA: 150=62; 160=$F_1$ 46, $F_2$ 88, S. dip; 170=$F_1$ 45, $F_2$=75 | | | | | | | | | | | | | |

LOGGED BY _____ D.D.H. No _____ PAGE 3

| Interval From | Interval To | DESCRIPTION | Recovery | Sample No | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 180= $F_1$ 55, $F_2$ 80 same dip | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 188 | 381 | BLACK STRIPED QUARTZ-GRAPHITIC PHYLLITE | 1 | | 221.5 | 226 | 4.5 | | | | | | | | |
| | | Thin quartz laminae alternate with black graphitic laminae. | 5 | | 253 | 263 | 10 | | | | | | | | |
| | | This part of section more quartzose; $F_2$ folds at 200- 212; | 10 | | 263 | 281 | 18 | | | | | | | | |
| | | 231-240; $F_2$ foliation dominant in most of section. Rock | 5 | | 284 | 294 | 10 | | | | | | | | |
| | | brocken, gouged, poker-chip at 221.5-226-gouge | 11 | | 302 | 321 | 19 | GOUGE AND CHIPS | | | | | | | |
| | | 241-47-poker-chip | | | | | | | | | | | | | |
| | | Much quartz-veins (0.5-7' thick) between 330-375. | | | | | | | | | | | | | |
| | | Note: These veins have stringers of pyrite and po. | | | | | | | | | | | | | |
| | | Note: Po-py blebs and stringers throughout graphitic sect. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | CA: 190=$F_1$ 30, $F_2$=60; 200=60; 220=50; 240=72; 260= 65$_{F_2}$; | | | | | | | | | | | | | |
| | | 280=70; 300=62; 320=$F_1$ 50 $F_2$=85; 340=50; 360=65$F_2$; 380=64 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 381 | 678 | BLACK QUARTZ-GRAPHITIC PHYLLITE | | | | | | | | | | | | | |
| | | Section is more uniform less quartz veined than above. | | | | | | | | | | | | | |
| | | Also $F_2$ folliation is dominant. Blebs, stringers of po with | | | | | | | | | | | | | |
| | | lesser pyrite in quartz veins throughout Section. Recovery | | | | | | | | | | | | | |
| | | excellent. | | | | | | | | | | | | | |
| | | CA: 400=80, 420=75; 440=80; 460=65, 480=76; 500=70; 520=70 | | | | | | | | | | | | | |
| | | 540=75; 560=67; local F2 folds; 580=80; 600=67; 620=70 | | | | | | | | | | | | | |

LOGGED BY _____ D.D.H. No _____ PAGE 4

| Interval From | Interval To | DESCRIPTION | Recovery | Sample No | Interval From | Interval To | Sample Length | Assay Pb | Assay Zn | Assay Ag | Assay Au | Assay Cu | Assay x Pb | Assay x Zn | Assay x Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 640=81; 660=85; 678=75. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | END OF HOLE | | | | | | | | | | | | | |
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