7/31 - 8/4

# THE HANNA MINING COMPANY

TO: J.G.S.

FROM: U.E.K.

PROJECT: Knox Mng.

DATE 8/8/72

A.F.E. NO. 72-425-3

## DRILLING STATUS

SUMMARY

| 1. DRILLS WORKING | SHIFTS WORKED | TOTAL HOLES: AFE AUTH. | TOTAL HOLES: COMPLETED | TOTAL HOLES: DRILLING | TOTAL FOOTAGE: AUTH. AFE | TOTAL FOOTAGE: TO DATE | TOTAL FOOTAGE: THIS WEEK |
|---|---|---|---|---|---|---|---|
| 1 | 10 hrs 4 | | 1 | 2 | | 2527 | 356 |

drill helper ill on 8/3

## HOLES DRILLED THIS PERIOD

| 2. HOLE NO. | COORDINATES N | COORDINATES E W | ADVANCE FT. | DEPTH FT. | ORE INTERSECTION FROM | ORE INTERSECTION TO | ORE RECOVERY | ROCK FORMATIONS & ORE CUT |
|---|---|---|---|---|---|---|---|---|
| An 31 | 149 00 | 1325 @ 45° East | 256 | 506 | None | | — | amphibolite + gneiss |
| An 31 | 156 00 | 700 @ 49° West | ± 100 | ± 100 | None | | | ✓ ✓ |

(at 125'-136' stringers of pyrrhotite, pyrite, sphalerite + chalcopyrite not economic)

| | THIS PERIOD | PROJECT TOTAL | | THIS PERIOD | PROJECT TOTAL |
|---|---|---|---|---|---|
| 3. CORE RECOVERY IN WALL ROCK | | | AVG. FEET/DRILL | | |
| CORE RECOVERY IN ORE | | | AVG. FEET/WORK SHIFT | | |
| TOTAL CORE RECOVERY | 100% | | AVG. FEET/DRILL SHIFT | 89 | 68 |
| RATE OF PENETR. IN ORE/SHIFT | | | AVG. RATE PENETR. HOST ROCK/SHIFT | 2527/37 | |

## 4. SAMPLE STATUS

| SAMPLES COLLECTED INTERVAL | SAMPLES PREPARED OR COMPOSITED | SAMPLES SENT TO LABORATORY PERIOD | SAMPLES SENT TO LABORATORY TOTAL | SAMPLE RESULTS PERIOD | SAMPLE RESULTS TOTAL | NOTES |
|---|---|---|---|---|---|---|
| 107'-108' 117'-136' | | | | | | |
| 126-21 & 128-18 | (last wk) | 7/22-28 | 1 & 4 | | | Nashwauk |
| 128-21 67'-78' | | this week | 3 | | | ✓ |
| 126-16 203'-336' | | | | 6/24-30 | 24 | ✓ |

## 5. GENERAL DRILLING RESULTS

(COMMENTS)

Due to poor site preparation 156-7,00 stem could not be placed flatter than 49°. As acid tests on 149-13,25 show a flattening with depth, the average inclination is expected ± 45°.

Drilling invoices to date:

| | | |
|---|---|---|
| 6/1-15 | 105' | $461.49 |
| 6/15-30 | 760' | 4326.77 |
| 7/1-15 | 663' | 3938.67 |
| | 1528' | $8726.93 |

or $5.71/ft.

NOTE: Attach following:

1. Geological plan showing proposed holes, holes drilled to date and this period; with elevation of collar, inclination, etc.
2. Log and cross-section of each hole.
3. Graph showing progress.

8/5-11/72

# THE HANNA MINING COMPANY

TO: JGS

FROM: U.E.K.

PROJECT: Knox Mng.

DATE 8/12/72

A.F.E. NO. 72-425-3

## DRILLING STATUS

SUMMARY

| 1. DRILLS WORKING | SHIFTS WORKED | TOTAL HOLES: AFE AUTH. | TOTAL HOLES: COMPLETED | TOTAL HOLES: DRILLING | TOTAL FOOTAGE: AUTH. AFE | TOTAL FOOTAGE: TO DATE | TOTAL FOOTAGE: THIS WEEK |
|---|---|---|---|---|---|---|---|
| 1 | 6 | | 1 | 1 | | 3003 | 476 |

## HOLES DRILLED THIS PERIOD

| 2. HOLE NO. | COORDINATES #S | COORDINATES #W | ADVANCE FT. | DEPTH FT. | Mn ~~ORE~~ INTERSECTION FROM | TO | ORE RECOVERY | ROCK FORMATIONS & ORE CUT |
|---|---|---|---|---|---|---|---|---|
| An 31 | 15600 | 700 | 476 | 576 | 125 | 136 | | sulfide stringers ~~incl.~~ with |
| | | | | | 230 | — | | sphalarite + chalcopyrite |
| | | completed | | | 485 | 525 | | same but better, w/ Qtz. |
| | | rig down | only | | | | | |
| | ~~164~~ | ~~13.35~~ | | | | | | |

| | THIS PERIOD | PROJECT TOTAL | | THIS PERIOD | PROJECT TOTAL |
|---|---|---|---|---|---|
| 3. CORE RECOVERY IN WALL ROCK | | | AVG. FEET/DRILL | | |
| CORE RECOVERY IN ORE | | | AVG. FEET/WORK SHIFT | | |
| TOTAL CORE RECOVERY | 100% | | AVG. FEET/DRILL SHIFT | 79 | 70 |
| RATE OF PENETR. IN ORE/SHIFT | | | AVG. RATE PENETR. HOST ROCK/SHIFT | | |

3003 / 43

## 4. SAMPLE STATUS

| SAMPLES COLLECTED INTERVAL | | SAMPLES PREPARED OR COMPOSITED | SAMPLES SENT TO LABORATORY: PERIOD | SAMPLES SENT TO LABORATORY: TOTAL | SAMPLE RESULTS: PERIOD | SAMPLE RESULTS: TOTAL | NOTES |
|---|---|---|---|---|---|---|---|
| 128-21 | 67-78 | 3 | 7/28 | 3 | | | Nashwauk |
| 128-16 | 244-281 | | | | | 7 | 8/7/72 ✓ |
| 126-21 | 107-108 | | | | | 1 | 8/11/72 ✓ |
| 128-18 | 117-180 | | | | | 5 | ✓ ✓ |
| 5. 130-17 | 184-189 | | | | | 1 | ✓ ✓ |

## GENERAL DRILLING RESULTS

(COMMENTS)

NOTE: Attach following:

1. Geological plan showing proposed holes, holes drilled to date and this period; with elevation of collar, inclination, etc.
2. Log and cross-section of each hole.
3. Graph showing progress.

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