60001682

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud Drill Hole File - Degerstrom Hole RS-474
AUTHOR	C. Stiles
DATE OF DOC(S)	1999
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Hecla Mining Co. Newmont Mining Corp.; Rosebud JV Geo Diligence Services
COMMODITY If not obvious	gold; silver
NOTES	Directional survey; total depth 2247' geology 6p. 8

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

SS: DD 6/4/08
Initials Date
DB: mah 7/08
Initials Date
SCANNED: M Blue
Initials Date

Revised: 1/22/08

DEGERSTROM - CRAIG STILES

60001682 4010

6 0001682

HECLA MINING COMPANY

COEUR D'ALENE, IDAHO 83815

BY	DATE	JOB TITLE	JOB NO.
CHK.	DATE		DIVISION
DWG. NO.			SHEET OF

Degerstrom Hole RS-474

~~2205100 N~~ → 2205285
~~475950 E~~ → 475,731.6
~~≈5470 ELEV~~ → 5570 ELEV

2246.5' TD

Get Geo sections for the South
RBW 17 > SUBSTANIAL Difference IN
RBW 16 BASEMENT.

- CHECK ASSAY ⇒ RS-474
1850 - 1855

CORRECT COORDS.

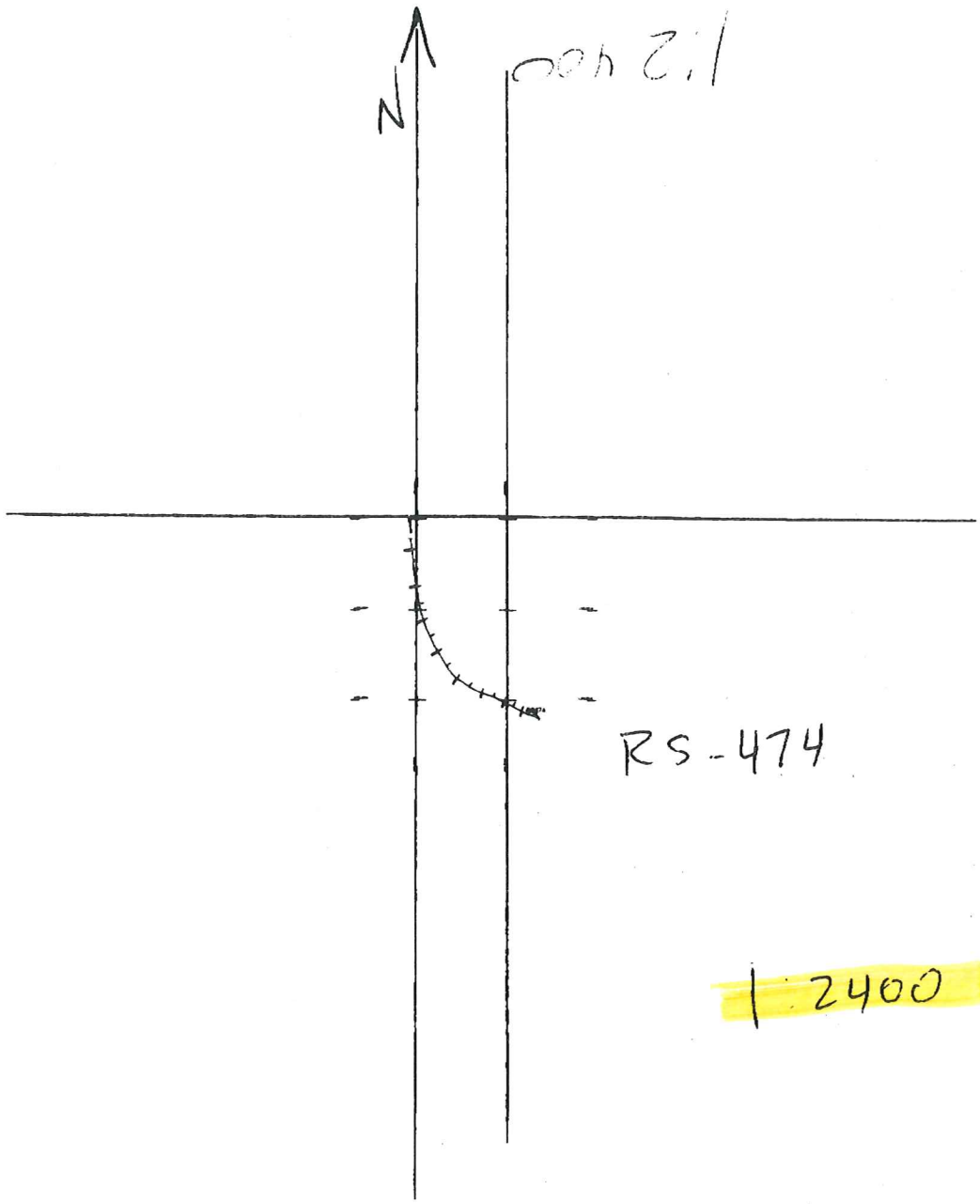
RS-474

2205285 N

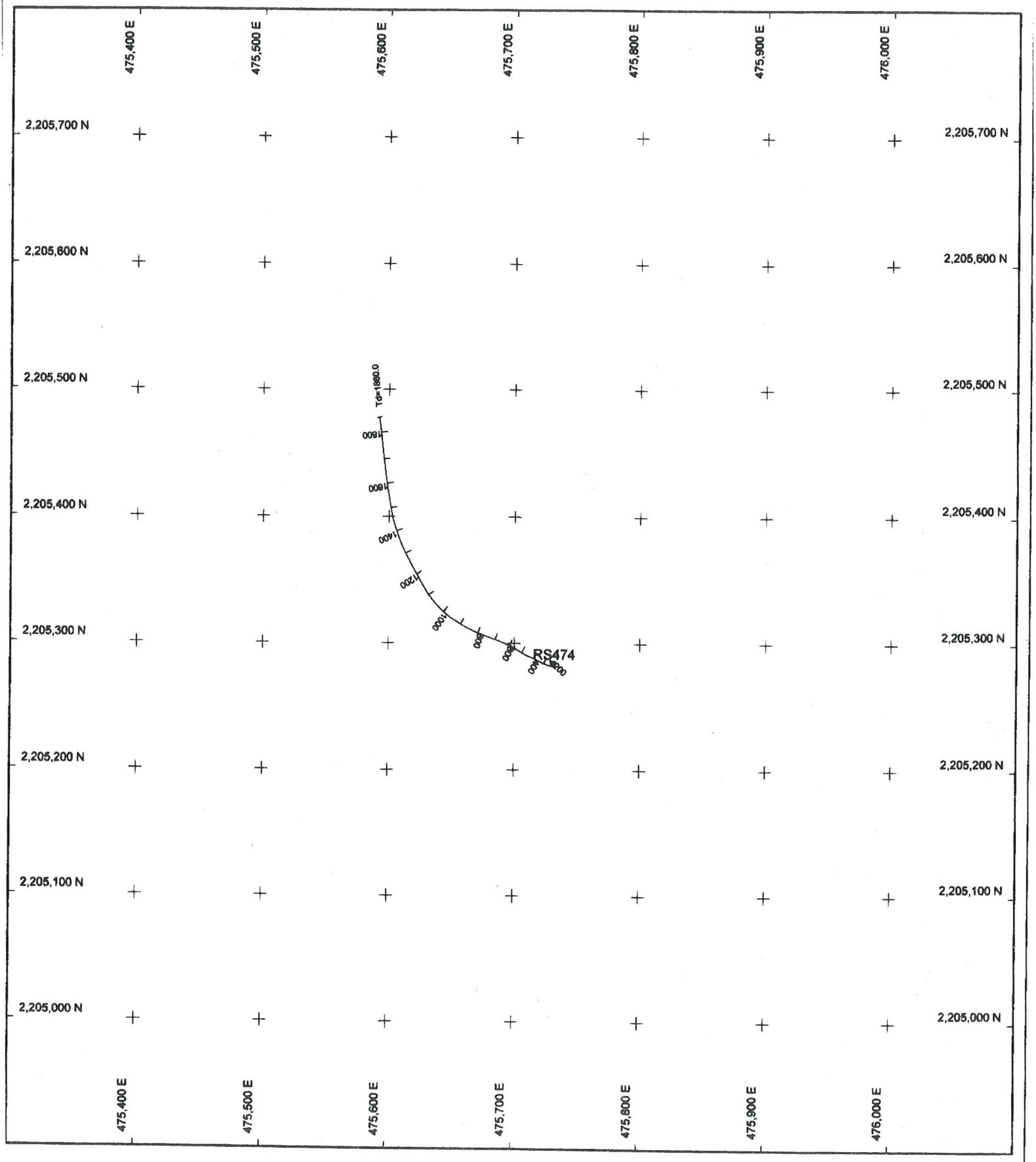
475731.6 E

5570.3

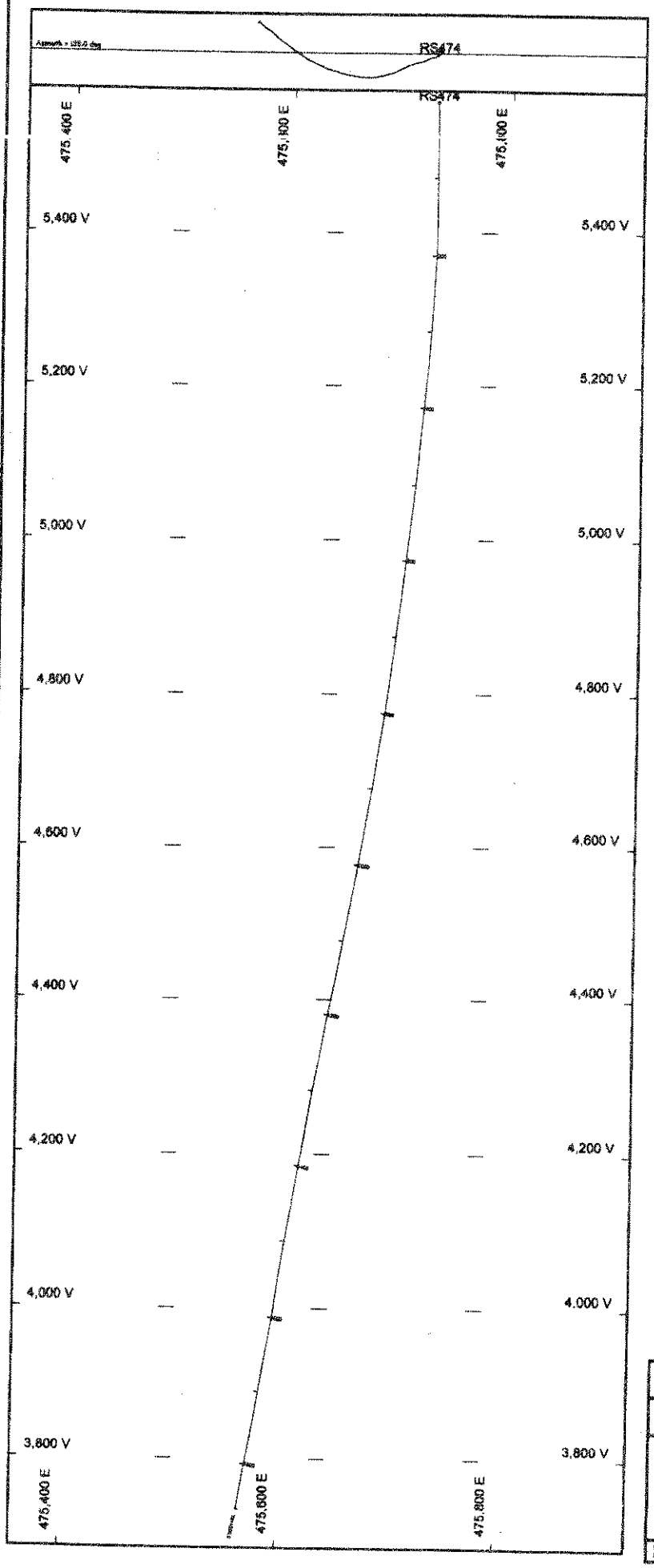
0-1860 RC, 1860-2246.5'
core



1:2400



Newmont Mining Corp.
ROSEBUD JV
Scale 1:1,200 (1" = 100')



EXPLANATION

SECTION PLANE:

Origin X/Y/Z: 475,355 / 2,205,660 / 3,680

Azm/Inc: 135 / 90

Length: 800

Height: 1,905

Thickness: 50 (on each side)

Units are feet.

Scale 1:2,400 (1" = 200')

NEWMONT MINING CORPORATION

Newmont Mining Corp.

ROSEBUD JV

RS474
Cross Section
showing down hole deveation

NEWMONT MINING CORPORATION PROPRIETARY INFORMATION
R:\Temp\plan-1.rms
Stereo 4.0 Ver 1.20
Monday, August 23, 1999 13:24:04

GEO DILIGENCE SERVICES

1547 Virginia Dale, Helena, Montana 59601
Phone/Fax: 406-443-8752 Email: ccstiles@mcn.net

May 30, 1999

EXPLORATION UPDATE / WORK SUMMARY
DEGERSTROM PROSPECT - ROSEBUD MINE

During the first half of the contract period (May 3 - May 24) work on the Degerstrom Prospect involved primarily data generation and compilation as follows:

Geologic Mapping:

- Orthophoto basemap was produced at a scale of 1:2400
- Mapping was completed on the core area of the Degerstrom Prospect at 1"=200'
- A preliminary alteration map and first pass alteration sampling/PIMA determinations were done
- Structural data were collected, including review of airphotos

Geochem sampling:

- Approximately 30 samples were collected from structures which may constitute leakage anomalies from potential mineralized zones at depth (assays pending)

Results of the first three weeks of the contract period indicate the following:

- Rosebud Quartz Latite (RQL) and the Chocolate Formation (Tc) are the two major rock types in the prospect area (the green ash-flow tuff beds may be the Bud tuff)
- The Degerstrom structure is a spoon-shaped, high-angle normal fault with downward movement and some strike-slip component of movement (on the northwest end) to the west
- Numerous antithetic faults in the hanging wall (primarily cutting RQL) occur directly west of the Degerstrom workings
- Silicification is strong along most of the main structure and especially in an area around and to the west of the Degerstrom workings, where either dilation along warping or offset due to oblique or antithetic faulting has caused greater exposure of brecciation and silicification
- The Degerstrom structure is geochemically anomalous (Au, Se, Hg, $\pm$Ag, As, Sb)
- Drill targets are likely to be defined at depth, in zones of intersection between the main structure and associated antithetic faults in the immediate hanging wall rocks
- An additional key target which is being developed involves the projected intersection of the Cave fault with the Degerstrom structure at depth

Work planned for the second half of the contract period:

- Review and interpretation of IP sections relative to the Degerstrom target area
- Additional alteration clay determinations (PIMA)
- Additional mapping to the west in order to project stratigraphy into the target area at depth
- Review of drill logs and cuttings from available holes in the target area (on site review with Charlie) to help with stratigraphic interpretations
- Assess results from geochem sampling
- Draw cross sections to determine target depths and target types and orientations
- Target selections and summary of exploration work done during contract period

Craig A. Stiles