DISTRICT: Rosebud

DST. NO: 4010

COUNTY: Pershing

TITLE: Rosebud Drill Hole File - Hole No D-186-98

AUTHOR: K. Allen, B. Morris, S. King

DATE OF DOC(S): 1998

MULI-DIST?: No

Additional Dist. Nos:

QUAD NAME: Sulphur 7.5'

R.M.D. NAME: Rosebud Mine, Hecla Mining Co, Rosebud Project Rosebud Mining Co, LLC

COMMODITY: gold, silver

NOTES: drill logs, assay, geology, photographs, receipts, total depth 196', hand written notes down hole camera images

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)

Revised: 1/22/08
<table>
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<tr>
<th>TH.</th>
<th>LITHOLOGY</th>
<th>FT</th>
<th>GRAPHIC LOG</th>
<th>STRUCTURE</th>
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LITHOLOGY

123.5 - 128.5' Dozer Rhyolite
- Lt gray gr. f.g. equigranular thry, metabreciated glassy feld.
- Inclined columnar - cathedral raggi edge blankets supported by Lt gray gr. f.g. fels.

133.5 - 199.0' Felsic Porphyry
- Whitish columnar - cathedral raggi edge blankets.
- Sample - Lt gray gr. f.g. felsic matrix.

GRAPHIC LOG

STRUCTURE

123.5' Contact
- Visible to distinguishable if it is a flat or deflected.

FAULT CONTACT

133.5' Widely
- Well healed, shear bands along contact.

ALTERATION AND MINERALIZATION

FROM / TO / W / Au / Ag / Au2

123.5 - 128.5' Moderately altered, weakly silicified.
- Width: 123.5 - 128.5' width.

133.5 - 143.5' Weakly silicified, weak alteration.
- Width: 133.5 - 143.5' width.

143.5 - 149.5' Moderately altered, weakly silicified, with slight clay lining.
- Width: 143.5 - 149.5' width.

149.5 - 151.5' Weakly altered, weakly silicified.
- Width: 149.5 - 151.5' width.

151.5 - 154.0' Weakly altered, weakly silicified.
- Width: 151.5 - 154.0' width.

154.0 - 166.0' Moderate alteration, weak structural.
- Width: 154.0 - 166.0' width.

166.0 - 172.0' Weakly altered, weakly silicified.
- Width: 166.0 - 172.0' width.

172.0 - 174.0' Moderate alteration, weakly silicified.
- Width: 172.0 - 174.0' width.

ANALYTICAL DATA
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LITHOLOGY

T.D. 199'

Felsic Porphyry (Bud Marker Bed like)

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<th>Post Load Core Graph</th>
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INVOICE

INVOICE TO:
THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610
WINNEMUCCA NV 89446

THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610
WINNEMUCCA NV 89446

CUSTOMER P.O.  D-196-98  PROJECT  DEVELOPMENT

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NET INVOICE: $1,018.10
LESS DISCOUNT: $203.62
FREIGHT: $0.00

INVOICE TOTAL: $814.48
HECLA MINING COMPANY

COPIES TO : KURT ALLEN

CLIENT REFERENCE No: D-196-98
No. SAMPLES : 44
MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 9 MAR 1998
REPORTED : 16 MAR 1998

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

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HECLA MINING COMPANY

COPIES TO : KURT ALLEN

CLIENT REFERENCE No: D-196-98
No. SAMPLES : 44
MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 9 MAR 1998
REPORTED : 16 MAR 1998

NEVADA LEGISLATIVE DISCLAIMER :
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

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SIGNATORY : Susan King M.S.
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# Provisional Report SP048265

**Client:** Hecla Mining Company  
**Project:** Rosebud Development  
**Reference:** D-196-98  
**Reported:** 16 Mar 1998

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