6000 0772

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 - Hole No. RB-95-22
AUTHOR	C. Muerhoff; S. King
DATE OF DOC(S)	1995 - 1996
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Hecla Mining Co.; Rosebud Project
COMMODITY If not obvious	gold; silver
NOTES	drill logs; geology; assay; total depth 300' receipt; handwritten notes 4p.

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 4/30/08
Initials Date

DB:
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

RB-95-22

6000 0772
4010

Hecla MINING COMPANY

ROSEBUD PROJECT
DRILL LOG

HOLE NUMBER RB-95-22
PAGE 1 OF 2
DATE 2-23-96
LOGGED BY C Muerhoff
TOTAL DEPTH 300'

LOCATION Tailings Impoundment
NORTHING 2,202,174.105
EASTING 476,830.714
ELEVATION 4,981.99
AZIMUTH n/a
INCLINATION -90°

AREA Condemnation Program
DRILLING CO. Parsons Drilling
RIG TYPE Schramm
HOLE SIZE 5½" RC
DOWN HOLE SURVEY BY none

L000 0772

FEET	GRAPHIC	ROCK TYPE	LITHOLOGY	HARDNESS	TEXTURE	ALTERATION: SILICIFICATION 5%	SILICIFICATION 15%	SILICIFICATION +25%	SILICIFICATION MATRIX %	SILICIFICATION QUARTS %	ARGILLIC 5%	ARGILLIC 15%	ARGILLIC +25%	ARGILLIC TYPE	PROPYLITIC % CHLORITE	PROPYLITIC % CALCITE	POTASSIC % K-SPAR	POTASSIC % ALUNITE	OXIDATION 5%	OXIDATION 15%	OXIDATION +25%	VIENING %	VIENING TYPE	MINERALIZATION: SULFIDES 5%	SULFIDES 15%	SULFIDES +25%	PY %	CPY %	MAR %	AG-SULF %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOISTURE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
10		Qal	Qal																		X												X								
		Qal / Tb	Interval 10'-20' equal amounts of Qal & Badger Fm. Contact @ 15'(±).																		X												X								
20		Tb	15'-80' Badger Fm		fg/fragmental																																				
30		Tb	Volcaniclastic breccia with small (≤ 1/8") mildly bleached sub-angular ash tuff fragments/chips in fine-grained FeO_x-stained mud (± volcanic component) groundmass. Matrix-supported.	MS																	X												X								
40		Tb		MS																	X												X								
50		Tb		MS																	X												X								
60		Tb		MS																	X												X								
70		Tb		MS																	X												X								
80		Tb		MS																	X												X								
90		Tb/Tc	Badger/Chocolate contact 50% of interval is clay (paleosoil / subtle unconformity?)	VS																	X												X								
100		Tc	90'-300' Chocolate Fm.	MS													≤5%				X																				
110		Tc	90'-130' Mixed volcaniclastic breccia/fg ash flow	MS													≤5%				X																				
120		Tc		MS													≤5%			X		≤5% calcite		<			<<														
130		Tc		MS													≤5%			X		≤5% calcite		<			<<														
140		Tc	130'-170' Fg (nearly aphanitic) flow fragments >> volcaniclastic frags.	M	fg															X				<<			<<	<<													
150		Tc		M	fg															X				<<			<<	<<						X								
160		Tc		M	fg															X				<<			<<	<<						X								
170		Tc	~10% clay	MS	fg															X				<<			<<	<<						X								
180		Tc	170'-180' Light green - clay altered ash tuff	S	fg															X														X								
190		Tc	180'-220' same as 130'-170'	MS	fg															X														X								
200		Tc		MS	fg															X														X								

Notes:
- Qal: surficial; not hydrothermal
- Tb: weak bleaching of lava frags
- Tc: oxidized
- Tc: ± 1% Sulfide xtals
- 0'-300' No Au or Ag above detection

Hecla MINING COMPANY

ROSEBUD PROJECT DRILL LOG

HOLE NUMBER RB-95-22
PAGE 2 OF 2
DATE
LOGGED BY
TOTAL DEPTH

LOCATION
NORTHING
EASTING
ELEVATION
AZIMUTH
INCLINATION

AREA
DRILLING CO.
RIG TYPE
HOLE SIZE
DOWN HOLE SURVEY BY

FEET	GRAPHIC	ROCK TYPE	LITHOLOGY	HARDNESS	TEXTURE	ALTERATION: SILICIFICATION 5%	SILICIFICATION 15%	SILICIFICATION +25%	SILICIFICATION MATRIX %	SILICIFICATION CLASTS %	ARGILLIC 5%	ARGILLIC 15%	ARGILLIC +25%	ARGILLIC TYPE	PROPYLITIC % CHLORITE	PROPYLITIC % CALCITE	POTASSIC % K-SPAR	POTASSIC % ALUNITE	OXIDATION 5%	OXIDATION 15%	OXIDATION +25%	VIENING %	VIENING TYPE	MINERALIZATION: SULFIDES 5%	SULFIDES 15%	SULFIDES +25%	PY %	CPY %	MAR %	AG-SUL %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOCURE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
210				MS	fg															X													X								
				MS	fg															X													X								
220			220'-280' Dark red-grey-brown aphanitic flow	M	vfg														X														<								
230				M	vfg														X														<								
240				M	vfg														X														<								
250				M	vfg														X														<								
260				M	vfg														X														<								
270				M	vfg														X														<								
280			280'-300' Mixed volcaniclastic breccia & aphanitic flow frags.	M	vfg														X														<								
290				MS	fg/fragmental						X									X													X								
300				MS	↓						X									X													X								
			T.D. @ 300'																																						
			All Tbg -10 to 300 JPR 11 Nov 99																																						

bleached bxa frags (prior to incorporation into clastic)

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT : SP035318

American Assay Laboratories

P.O. BOX 11530
RENO, NV,,USA
Ph.1-702-356-0606, Fax.1-702-356-1413
Telex:

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF
:
:
:

CLIENT REFERENCE No: RB-95-22 RECEIVED : 29 AUG 1995

No. SAMPLES : 30 REPORTED : 15 SEP 1995

MAIN SAMPLE TYPE : DRILL CUTTINGS

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Sue King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT : SP035318

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : RB-95-22

REPORTED : 15 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
RB-95-22 000-010	<0.001	<0.001	<0.02
RB-95-22 010-020	<0.001		<0.02
RB-95-22 020-030	<0.001		<0.02
RB-95-22 030-040	<0.001		<0.02
RB-95-22 040-050	<0.001		<0.02
RB-95-22 050-060	<0.001		<0.02
RB-95-22 060-070	<0.001		<0.02
RB-95-22 070-080	<0.001		<0.02
RB-95-22 080-090	<0.001		<0.02
RB-95-22 090-100	<0.001		<0.02
RB-95-22 100-110	<0.001		<0.02
RB-95-22 110-120	<0.001	<0.001	<0.02
RB-95-22 120-130	<0.001		<0.02
RB-95-22 130-140	<0.001		<0.02
RB-95-22 140-150	<0.001		<0.02
RB-95-22 150-160	<0.001		<0.02
RB-95-22 160-170	<0.001		<0.02
RB-95-22 170-180	<0.001	<0.001	<0.02
RB-95-22 180-190	<0.001		<0.02
RB-95-22 190-200	<0.001		<0.02
RB-95-22 200-210	<0.001		<0.02
RB-95-22 210-220	<0.001		<0.02
RB-95-22 220-230	<0.001		<0.02
RB-95-22 230-240	<0.001		<0.02
RB-95-22 240-250	<0.001		<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT : SP035318

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : RB-95-22

REPORTED : 15 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
RB-95-22 250-260	<0.001		<0.02
RB-95-22 260-270	<0.001		<0.02
RB-95-22 270-280	<0.001		<0.02
RB-95-22 280-290	<0.001		<0.02
RB-95-22 290-300	<0.001		<0.02