6000 0745

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. RBW-12
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 660' handwritten notes; receipts 10 p.

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

RBW-12

6000 0745
4010

Hecla MINING COMPANY

ROSEBUD PROJECT DRILL LOG

6600 0745

HOLE NUMBER RBW-12
PAGE 1 OF 5
DATE 3/22/96
LOGGED BY KDA
TOTAL DEPTH 990'

LOCATION
NORTHING
EASTING
ELEVATION
AZIMUTH
INCLINATION

AREA WATER EXPLORATION
DRILLING CO. PARSONS
RIG TYPE RVC
HOLE SIZE 5 1/2
DOWN HOLE SURVEY BY NONE

FEET	GRAPHIC	ROCK TYPE	LITHOLOGY	HARDNESS	TEXTURE	ALTERATION: SILICIFICATION 5%	SILICIFICATION 15%	SILICIFICATION +25%	SILICIFICATION MATRIX %	SILICIFICATION QUARTZ %	ARGILLIC 5%	ARGILLIC 15%	ARGILLIC +25%	ARGILLIC TYPE	PROPYLITIC % DOLOMITE	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 %	K-SLF %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	DIPSOM	MOISTURE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
10		QAL	VOLCANIC ALLUVIUM																		X																				
20		QAL																			X																				
30		QAL																		X																					
40		QAL	AUCB LANG SYNE PHYLITE ALLUVIUM																	X																					
50		QAL																		X																					
60		QAL																		X																					
70		QAL																		X																					
80		QAL																		X																					
90		TR-JR ALS	BLACK, GRAPHITIC, AUCB LANG SYNE PHYLITES	MH-MS	F6																			X			100							X	X						
100				MH-MS		X																		X											X						
110				MH-MS												1%								X											X						
120				MS-MH																				X											X						
130				MS-MH																				X											X						
140				MS-MH																				X											X						
150				MS-MH																				X											X						
160				MH-MS																				X											X						
170				MH-MS																				X											X						
180				MH-MS																				X											X						
190				MH-MS																				X											X						
200				MH-MS																				X											X						

Hecla MINING COMPANY

ROSEBUD PROJECT DRILL LOG

HOLE NUMBER RBW-12
PAGE 2 OF 5
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AREA WATER EXPLORATION
DRILLING CO. PARSONS
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HOLE SIZE 5 1/2
DOWN HOLE SURVEY BY NONE

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 %	K-SUL %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOISTURE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
210		TR-IR ALS	BLACK, GRAPHITIC, ALUS LAMG SYNE PHYLLITE	MS-MH	F6																			X			100								X						
220				MS-MH																				X											X						
230				MS-MH												3							CaCO3	X											X						
240				MS-MH																				X											X						
250				MS-MH																				X											X						
260				MS-MH																				X											X						
270				MS-MH												5							CaCO3	X											X						
280																								X											X						
290																								X											X						
300																1							CaCO3	X											X						
310																7								X											X						
320																4								X											X						
330																5								X											X						
340																TR								X											X						
350																1								X											X						
360																1								X											X						
370																								X											X						
380																								X											X						
390																1							CaCO3	X											X						
400																2								X											X						

Hecla MINING COMPANY

ROSEBUD PROJECT DRILL LOG

HOLE NUMBER RBW-12
PAGE 3 OF 5
DATE 3/22/96
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LOCATION
NORTHING
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ELEVATION
AZIMUTH
INCLINATION

AREA WATER EXPLORATION
DRILLING CO. PARSONS
RIG TYPE RVC
HOLE SIZE 5½
DOWN HOLE SURVEY BY NONE

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 %	K-SLF %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOISTURE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
410		F-F ALS	BLACK, GRAPHIC, AULD LANG SYNE PHYLLITE	MS-MH	FG																			X			100								X						
420																								X											X						
430																5							CACO3	X											X						
440																TR								X											X						
450																								X											X						
460																TR							CaCO3	X											X						
470						X										5								X											X						
480																3								X											X						
490																5								X											X						
500			MINOR SILTY SAND STONE													4								X											X						
510																5								X											X						
520																7								X											X						
530																7								X											X						
540																1								X											X						
550																3								X											X						
560																1								X											X						
570																3								X											X						
580																1								X											X						
590																3								X											X						
600																5								X											X						

Hecla MINING COMPANY

ROSEBUD PROJECT DRILL LOG

HOLE NUMBER RBW-12
PAGE 4 OF 5
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LOCATION
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AREA WATER EXPLORATION
DRILLING CO. PARSONS
RIG TYPE RDC
HOLE SIZE 5 1/2
DOWN HOLE SURVEY BY NONE

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 % DOLOMITE	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 %	K-SLF %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOISTURE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
610		K-J ALS	BLACK, GRAPHITIC AND LANGSYNE PHYLLITES.	MH-HS	FG																			X			100								X						
620																1							$CaCO_3$	X											X						
630																2								X											X						
640																1								X											X						
650																2								X											X						
660																4								X											X						
670																4								X											X						
680						X										2							$CaCO_3$ / SiO_2	X											X						
690																1							$CaCO_3$	X											X						
700																1								X											X						
710																2								X											X						
720																1								X											X						
730																TR								X											X						
740																								X											X						
750																								X											X						
760																								X											X						
770																								X											X						
780																								X											X						
790																								X											X						
800																								X											X						

Hecla MINING COMPANY

ROSEBUD PROJECT
DRILL LOG

HOLE NUMBER RBW-12
PAGE 5 OF 5
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AREA WATER EXPLORATION
DRILLING CO. PARSONS
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HOLE SIZE 5 1/2
DOWN HOLE SURVEY BY NONE

FEET	GRAPHIC	ROCK TYPE	LITHOLOGY	HARDNESS	TEXTURE	ALTERATION: SILICIFICATION 5%	SILICIFICATION 15%	SILICIFICATION +25%	SILICIFICATION MATRIX %	SILICIFICATION QUARTZ %	ARGILLIC 5%	ARGILLIC 15%	ARGILLIC +25%	ARGILLIC TYPE	PROPYLITIC % OLIVINE	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 %	K-SLF %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOISTURE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
810		R-I ALS	BLACK, GRAPHITIC AULD LANG SYNE PHYLLITES	MS-MH	FG											TR							COCG	X			100								X						
820																TR								X											X						
830																TR								X											X						
840																								X											X						
850																								X											X						
860																								X											X						
870																								X											X						
880																								X											X						
890																								X											X						
900																								X											X						
910																								X											X						
920																								X											X						
930																								X											X						
940																								X											X						
950																								X											X						
960																								X											X						
970																								X											X						
980																								X											X						
990																								X											X						
			TD = 990'																																						

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP036345

American Assay Laboratories

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

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF
:
:
:

CLIENT REFERENCE No: RBW-12 RECEIVED : 6 NOV 1995

No. SAMPLES : 99 REPORTED : 6 DEC 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 SP036345

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : RBW-12

REPORTED : 6 DEC 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
RBW-12 000-010	<0.001		<0.02
RBW-12 010-020	<0.001		<0.02
RBW-12 020-030	<0.001	<0.001	<0.02
RBW-12 030-040	<0.001		0.04
RBW-12 040-050	<0.001		0.04
RBW-12 050-060	<0.001		0.03
RBW-12 060-070	<0.001		0.03
RBW-12 070-080	<0.001		0.04
RBW-12 080-090	<0.001		0.02
RBW-12 090-100	<0.001		<0.02
RBW-12 100-110	<0.001		<0.02
RBW-12 110-120	<0.001		<0.02
RBW-12 120-130	<0.001		<0.02
RBW-12 130-140	<0.001		<0.02
RBW-12 140-150	<0.001		<0.02
RBW-12 150-160	<0.001		0.02
RBW-12 160-170	<0.001		0.02
RBW-12 170-180	<0.001	<0.001	0.03
RBW-12 180-190	<0.001		0.04
RBW-12 190-200	<0.001		0.02
RBW-12 200-210	<0.001		0.03
RBW-12 210-220	<0.001		0.02
RBW-12 220-230	<0.001		<0.02
RBW-12 230-240	<0.001		0.02
RBW-12 240-250	<0.001		0.03

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP036345

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CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : RBW-12

REPORTED : 6 DEC 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
RBW-12 250-260	<0.001		0.04
RBW-12 260-270	<0.001		0.03
RBW-12 270-280	<0.001		0.02
RBW-12 280-290	<0.001		<0.02
RBW-12 290-300	<0.001	<0.001	0.02
RBW-12 300-310	<0.001		0.02
RBW-12 310-320	<0.001		0.02
RBW-12 320-330	<0.001		<0.02
RBW-12 330-340	<0.001		0.02
RBW-12 340-350	<0.001		<0.02
RBW-12 350-360	<0.001		0.03
RBW-12 360-370	<0.001		0.05
RBW-12 370-380	<0.001		0.04
RBW-12 380-390	<0.001		0.04
RBW-12 390-400	<0.001		0.05
RBW-12 400-410	<0.001		0.05
RBW-12 410-420	<0.001	<0.001	0.05
RBW-12 420-430	<0.001		0.04
RBW-12 430-440	<0.001		0.04
RBW-12 440-450	<0.001	<0.001	0.04
RBW-12 450-460	<0.001		0.04
RBW-12 460-470	<0.001		0.04
RBW-12 470-480	<0.001		0.05
RBW-12 480-490	<0.001		0.03
RBW-12 490-500	<0.001		0.02

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
RBW-12 500-510	<0.001		0.02
RBW-12 510-520	<0.001		<0.02
RBW-12 520-530	<0.001		<0.02
RBW-12 530-540	<0.001		0.02
RBW-12 540-550	<0.001		0.02
RBW-12 550-560	<0.001		<0.02
RBW-12 560-570	<0.001		<0.02
RBW-12 570-580	<0.001		<0.02
RBW-12 580-590	<0.001		<0.02
RBW-12 590-600	<0.001		<0.02
RBW-12 600-610	<0.001		<0.02
RBW-12 610-620	<0.001	<0.001	<0.02
RBW-12 620-630	<0.001		<0.02
RBW-12 630-640	<0.001		<0.02
RBW-12 640-650	<0.001		0.02
RBW-12 650-660	<0.001		0.02
RBW-12 660-670	<0.001		<0.02
RBW-12 670-680	<0.001	<0.001	0.03
RBW-12 680-690	<0.001		0.03
RBW-12 690-700	<0.001		0.02
RBW-12 700-710	<0.001		0.02
RBW-12 710-720	<0.001		<0.02
RBW-12 720-730	<0.001		<0.02
RBW-12 730-740	<0.001		<0.02
RBW-12 740-750	<0.001		<0.02

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
RBW-12 750-760	<0.001		<0.02
RBW-12 760-770	<0.001		<0.02
RBW-12 770-780	<0.001		<0.02
RBW-12 780-790	<0.001		<0.02
RBW-12 790-800	<0.001		<0.02
RBW-12 800-810	<0.001		<0.02
RBW-12 810-820	<0.001	<0.001	<0.02
RBW-12 820-830	<0.001		<0.02
RBW-12 830-840	<0.001		<0.02
RBW-12 840-850	<0.001		<0.02
RBW-12 850-860	<0.001		<0.02
RBW-12 860-870	<0.001		<0.02
RBW-12 870-880	<0.001		<0.02
RBW-12 880-890	<0.001		<0.02
RBW-12 890-900	<0.001		<0.02
RBW-12 900-910	<0.001		<0.02
RBW-12 910-920	<0.001		<0.02
RBW-12 920-930	<0.001		<0.02
RBW-12 930-940	<0.001		<0.02
RBW-12 940-950	<0.001		<0.02
RBW-12 950-960	<0.001		<0.02
RBW-12 960-970	<0.001	<0.001	<0.02
RBW-12 970-980	<0.001		<0.02
RBW-12 980-990	<0.001		<0.02