60000744

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-11
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 600' handwritten notes; receipts directional survey 8p 1 oversized sheet

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-11

60000744
4010

Hecla MINING COMPANY

ROSEBUD PROJECT
DRILL LOG

HOLE NUMBER RBW-11
PAGE 1 OF 3
DATE 3/19/96
LOGGED BY KLA
TOTAL DEPTH 600'

LOCATION
NORTHING
EASTING
ELEVATION
AZIMUTH N60W
INCLINATION -75

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

6000 0744

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-SLF %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOLYBDENITE	ANALYTICAL DATA: FROM	TO	W	AU	AG
10		QAL	VOLCANIC ALLUVIUM.																	X													X								
20		QAL																		X													X								
30		QAL																		X													X								
40		QAL																		X													X								
50		QAL																		X													X								
60		QAL																		X													X								
70		QAL																		X													X								
80		QAL																		X													X								
90		QAL																		X													X								
100		QAL																		X													X								
110		QAL																		X													X								
120		QAL																		X													X								
130		ALS CONG	AULD LANG SYNE QUARTZITE CONGLOMERATE. DK. GRAY	H	SUB/(RH)		X			100	X													X			100							X	X	X					
140				H			X				X													X										X	X	X					
150				H			X				X													X										X	X	X					
160				H			X				X													X										X	X	X					
170				H			X				X													X										X	X	X					
180				H			X				X													X										X	X	X					
190				H			X				X													X										X	X	X					
200				H			X				X													X										X	X	X					

Hecla MINING COMPANY

ROSEBUD PROJECT DRILL LOG

HOLE NUMBER RBW-11
PAGE 2 OF 3
DATE 3/22/96
LOGGED BY KDA
TOTAL DEPTH 600'

LOCATION
NORTHING
EASTING
ELEVATION
AZIMUTH
INCLINATION

AREA WATER EXPLORATION
DRILLING CO. PARSONS
RIG TYPE RVC
HOLE SIZE 5 7/2
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-SLF %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOLYBDE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
210		ALS CONG	AULD LANG SYNE QUARTZITE CONGLOMERATE DK-GRAY	H	SUBO/GRAN		X			100	X													X			100							X	X	X					
220		CLAY	DK GREY to BLACK CLAY w/ MINOR ALS CHIPS.	S	FG									X	BK GREY									X			100								X						
230		Bub?	OXIDIZED & CRACKLE BRECCIATED RHYOLITIC? ASH FLOW Tuff/Tuff Bx.	MS-MH	SP/BX	X					X							X	X				X				100								X						
240		Bub	PROPYLITIZED DK-LT GREEN ASH-FLOW Tuff. MINOR BRECCIATION & VERY MINOR FLOW LAMINATIONS	MS-MH		X					X				X									X			100								X						
250		Bub		MS-MH		X					X				X									X											X						
260		Bub		MS-MH		X					X				X									X											X						
270		Bub		MS-MH		X					X				X									X											X						
280		Bub		MS-MH		X					X				X									X											X						
290		Bub?	OXIDIZED OR POTASSICALLY ALT CRACKLE BRECCIATED RHYOLITIC? ASH-FLOW Tuff/Tuff Bx.	MH		X			100		X							X	X					X											X						
300		Bub?		MH		X					X							X	X					X											X						
310		Bub?		MH		X					X							X	X					X											X						
320		Bub?	SAA ONLY PROPYLITIZED	MH-MS		X					X				X									X											X						
330		Bub?	MINOR OX OR/POTASSIC ALT	MH-MS		X					X				X			X	X					X											X						
340		Bub?		MH-MS		X					X				X			TR	TR					X											X						
350		Bub	PROPYLITIZED, SLIGHTLY PORPHYRITIC RHYOLITIC? ASH-FLOW Tuff. LT. to DK. GREEN.	MH	SP/GRAN	X					X				X									X											X						
360		Bub		MH		X					X				X									X											X						
370		Bub		MH		X					X				X									X											X						
380		Bub		MH		X					X				X									X											X						
390		Bub		MH		X					X				X									X											X						
400		Bub		MH		X					X				X									X											X						

Hecla MINING COMPANY

ROSEBUD PROJECT DRILL LOG

HOLE NUMBER RBW-11
PAGE 3 OF 3
DATE 3/27/96
LOGGED BY GDA
TOTAL DEPTH 600'

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 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-SLF %	STIBNITE %	BARITE %	METALLURGY: OXIDE	SULF	CARBON	MOISTURE	ANALYTICAL DATA: FROM	TO	W	Au	Ag
410		Bud	PROPYLITIZED, SUBATLY PORPHYRIC ANDESITIC? ASH-FLOW TUFF. LT to DK GREEN.	MH	SP/GRAN	X					X				X									X			100							X								
420		Bud		MH		X					X				X									X										X								
430		Bud		MS							X				X									X										X								
440		Bud		MS							X				X									X										X								
450		Bud		MS-MH		X					X				X									X										X								
460		Bud		MS-MH		X					X				X									X										X								
470		Bud		MS-MH		X					X				X									X										X								
480		Bud		MS-MH		X					X				X									X										X								
490		Bud?	MINOR POTASSICALLY ALTERED MATRIX, MATRIX to CLAST SUPPORTED MINOR PROPYLITIZED CLASTS, HETEROLITHIC LAPILLI VOLCANIC BRECCIA. MAY BE AN ASH-FLOW TUFF OF BUD.? DK BROWN MATRIX W/ LT-DK GREEN CLASTS.	MS-MH	GRAN	X					X				X			X					X				X									X								
500		Bud?		MS-MH		X					X				X			X						X										X								
510		Bud?		MS-MH		X					X				X			Y						X										X								
520		Bud?		MS-MH		X					X				Y			Y						X										X								
530		Bud?		MS-MH		X					X				Y			X						X										X								
540		Bud?		MS-MH		X					X				Y			Y						X										X								
550		Bud?		MS-MH		X					X				X			X						X										X								
560		Bud?		MS-MH		X					X				X			X						X										X								
570		Bud?		MS-MH		X					X				X			Y						Y										X								
580		Bud?		MS-MH		X					X				Y			X						Y										X								
590		Bud?		MS-MH		X					X				X			X						X										X								
600		Bud?		MS-MH		X					X				X			X						X										X								

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP036067

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-11 RECEIVED : 18 OCT 1995

No. SAMPLES : 60 REPORTED : 6 NOV 1995

MAIN SAMPLE TYPE : DRILL CUTTINGS

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA60	15%	ppb	5
Au(R)	FA60	15%	ppb	5
Ag	D210	10%	ppm	0.5

SIGNATORY : Sue King M.S. Page : 1

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP036067

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : RBW-11

REPORTED : 6 NOV 1995

SAMPLES	Au	Au(R)	Ag
RBW-11 000-010	<5		<0.5
RBW-11 010-020	<5		<0.5
RBW-11 020-030	5	5	<0.5
RBW-11 030-040	<5		<0.5
RBW-11 040-050	12		<0.5
RBW-11 050-060	<5		<0.5
RBW-11 060-070	<5		<0.5
RBW-11 070-080	6		<0.5
RBW-11 080-090	<5		<0.5
RBW-11 090-100	8		<0.5
RBW-11 100-110	6		<0.5
RBW-11 110-120	<5		<0.5
RBW-11 120-130	<5		<0.5
RBW-11 130-140	<5		<0.5
RBW-11 140-150	<5		0.6
RBW-11 150-160	<5		<0.5
RBW-11 160-170	6		<0.5
RBW-11 170-180	17	20	0.6
RBW-11 180-190	10		0.5
RBW-11 190-200	5		<0.5
RBW-11 200-210	7		<0.5
RBW-11 210-220	10		0.5
RBW-11 220-230	<5		<0.5
RBW-11 230-240	60		4.0
RBW-11 240-250	14		1.1

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP036067

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : RBW-11

REPORTED : 6 NOV 1995

SAMPLES	Au	Au(R)	Ag
RBW-11 250-260	87	78	1.0
RBW-11 260-270	61		<0.5
RBW-11 270-280	10		<0.5
RBW-11 280-290	<5		<0.5
RBW-11 290-300	<5		<0.5
RBW-11 300-310	70		<0.5
RBW-11 310-320	265	360	1.7
RBW-11 320-330	163	122	0.9
RBW-11 330-340	21		<0.5
RBW-11 340-350	<5		0.5
RBW-11 350-360	<5		0.7
RBW-11 360-370	9		0.6
RBW-11 370-380	<5		<0.5
RBW-11 380-390	<5	<5	<0.5
RBW-11 390-400	<5		<0.5
RBW-11 400-410	<5		<0.5
RBW-11 410-420	<5		<0.5
RBW-11 420-430	23		0.6
RBW-11 430-440	17		0.8
RBW-11 440-450	13		1.0
RBW-11 450-460	<5		<0.5
RBW-11 460-470	8		0.5
RBW-11 470-480	<5		0.5
RBW-11 480-490	<5		<0.5
RBW-11 490-500	<5		<0.5

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP036067

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : RBW-11

REPORTED : 6 NOV 1995

SAMPLES	Au	Au(R)	Ag
RBW-11 500-510	<5		<0.5
RBW-11 510-520	<5		<0.5
RBW-11 520-530	<5		<0.5
RBW-11 530-540	<5		<0.5
RBW-11 540-550	<5		<0.5
RBW-11 550-560	<5		<0.5
RBW-11 560-570	<5		<0.5
RBW-11 570-580	<5		<0.5
RBW-11 580-590	<5		<0.5
RBW-11 590-600	<5		<0.5

FIELD NOTE SHEET

DRILLHOLE RBW-11

REFLEX–FOTOBOR DDI

LOCATION N60°W

BY GAA

DIP -75° DATE 10/6/95

TIME MIN	DEPTH	NOTES	DEPTH	NOTES	TIME MIN	DEPTH	NOTES	DEPTH	NOTES
1	Setup				31	460			
2	Setup				32	480			
3	setup				33	500'			
4	Setup				34				
5	Setup				35				
6	Setup				36				
7	BLUEBED				37				
8	0				38				
9	20				39				
10	40'				40				
11	60'				41				
12	80'				42				
13	100'				43				
14	120'				44				
15	140'				45				
16	160'				46				
17	180'				47				
18	200'				48				
19	220'				49				
20	240'				50				
21	260'				51				
22	280'				52				
23	300'				53				
24	320'				54				
25	340'				55				
26	360'				56				
27	380'				57				
28	400'				58				
29	420				59				
30	440				60				

Hole 600'
Bit - 585
Hammer 5
580
Surface 4
576
Rods 30
Survey to 546 520 = 500'

DRILLHOLE DIP AND DIRECTION MEASUREMENTS WITH REFLEX FOTOBOR DDI

CUSTOMER: HECLA
CUSTOMER REFERENCE: ROSEBUD
SURVEYOR: KURT ALLEN
DATE: 10-06-95
DRILL HOLE: RBW-11
NO CASING

COLLAR POSITION

X(FT)	Y(FT)	Z(FT)	DIP (DEG.)	DIR. (DEG.)
470697.3	2199731	4674.44	74.99	299.99

POSITION AT 530 FT

X(FT)	Y(FT)	Z(FT)	DIP (DEG.)	DIR. (DEG.)
470774.8	2199598	4167.27	70.55	299.57

LOCAL COORDINATES AT 530 FT
Y-LOC= .58 FT TO THE RIGHT
Z-LOC= 17.49 FT UPWARDS

RESULTS

STATION (FT)	X(FT)	Y(FT)	Z(FT)	DIP (DEG.)	DIR. (DEG.)
0	470697.3	2199731	4674.44	74.99	299.99
20	470699.9	2199727	4655.13	74.7	299.89
40	470702.6	2199722	4635.83	74.64	299.45
60	470705.2	2199718	4616.55	74.53	299.05
80	470707.7	2199713	4597.27	74.46	298.62
100	470710.4	2199708	4578.01	74.36	299.35
* 100	26.57	-.31	.71		
120	470713	2199704	4558.75	74.24	299.71
140	470715.7	2199699	4539.51	74.09	299.62
160	470718.4	2199694	4520.28	73.75	299.67
180	470721.2	2199689	4501.08	73.72	300.24
200	470724	2199684	4481.88	73.76	300.55
* 200	54.19	-.46	2.51		
220	470726.9	2199679	4462.68	73.64	300.87
240	470729.8	2199674	4443.49	73.56	301.42
260	470732.8	2199670	4424.31	73.47	301.88
280	470735.8	2199665	4405.15	73.18	301.41
300	470738.8	2199660	4386.01	72.99	300.96
* 300	82.91	.07	5.43		
320	470741.9	2199655	4366.89	72.83	300.68
340	470744.9	2199649	4347.79	72.64	300.57
360	470747.9	2199644	4328.7	72.74	300.95
380	470751	2199639	4309.61	72.47	300.73
400	470754.1	2199634	4290.54	72.11	300.77
* 400	112.72	.44	9.520001		
420	470757.2	2199629	4271.51	72.05	300.37
440	470760.4	2199623	4252.49	71.86	300.1
460	470763.5	2199618	4233.49	71.57	300.37
480	470766.7	2199613	4214.53	71.26	300.28
500	470769.9	2199607	4195.6	70.99	300
* 500	144.08	.63	15.24		
530	470774.8	2199598	4167.27	70.55	299.57
* 530	154	.58	17.49		