60000714

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. RS-487-99
AUTHOR	L. Machedon; K. Allen
DATE OF DOC(S)	2000
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Mining Co. LLC; Hecla Mining Co.
COMMODITY If not obvious	gold; silver
NOTES	Geochemistry; receipts; assay; total depth 645' 25 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 4/29/08
Initials Date
DB:
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

RS-487

60000714
4010

American Assay Laboratories

INVOICE

70000714

Remit To: P.O. Box11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431-5902

(775) 356-0606

INVOICE NO: SP 0055768-IN
INVOICE DATE: 03/03/00

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.	PROJECT	TERMS
RS-487	MOTHER LODE	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
130	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
129	DRY/JAW CRUSH ENTIRE SAMPLE	4.60	593.40
10	EXCESSIVE WETNESS	2.00	20.00
129	SPLITTING CHARGE	3.00	387.00
129	RING/PUCK MILL	2.00	258.00
130	Au (1 A.T. FIRE ASSAY)	8.00	1,040.00
129	HYDROCHLORIC/NITRIC DIGESTION	2.00	258.00
129	Ag ANALYSES	1.00	129.00
129	COMPOSITE CHARGE	1.25	161.25
33	MULTI-ELEMENT ICP PACKAGE	13.75	453.75

86-2510-477
KDA

NET INVOICE:	3,300.40
LESS DISCOUNT:	1,155.14
FREIGHT:	.00
INVOICE TOTAL:	2,145.26

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN
:
:
:

CLIENT REFERENCE No: RS-487 RECEIVED : 28 JAN 2000

No. SAMPLES : 130 REPORTED : 6 MAR 2000

MAIN SAMPLE TYPE : DRILL CUTTINGS

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.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 000-005	10		<0.001		<0.5	<0.02
RS-487 005-010	8		<0.001		<0.5	<0.02
RS-487 010-015	<5		<0.001		<0.5	<0.02
RS-487 015-020	<5		<0.001		<0.5	<0.02
RS-487 020-025	<5		<0.001		<0.5	<0.02
RS-487 025-030	10		<0.001		<0.5	<0.02
RS-487 030-035	14		<0.001		0.5	<0.02
RS-487 035-040	11		<0.001		<0.5	<0.02
RS-487 040-045	70		0.002		1.6	0.05
RS-487 045-050	23		<0.001		1.2	0.04
RS-487 050-055	20		<0.001		0.5	<0.02
RS-487 055-060	8		<0.001		<0.5	<0.02
RS-487 060-065	<5		<0.001		<0.5	<0.02
RS-487 065-070	<5		<0.001		<0.5	<0.02
RS-487 070-075	<5		<0.001		<0.5	<0.02
RS-487 075-080	<5		<0.001		<0.5	<0.02
RS-487 080-085	<5		<0.001		<0.5	<0.02
RS-487 085-090	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 090-095	<5		<0.001		<0.5	<0.02
RS-487 095-100	<5		<0.001		<0.5	<0.02
RS-487 100-105	<5		<0.001		<0.5	<0.02
RS-487 105-110	<5		<0.001		<0.5	<0.02
RS-487 110-115	<5		<0.001		0.5	<0.02
RS-487 115-120	<5		<0.001		<0.5	<0.02
RS-487 120-125	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP055768

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 125-130	<5		<0.001		<0.5	<0.02
RS-487 130-135	<5		<0.001		<0.5	<0.02
RS-487 135-140	<5		<0.001		<0.5	<0.02
RS-487 140-145	<5		<0.001		<0.5	<0.02
RS-487 145-150	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 150-155	<5		<0.001		<0.5	<0.02
RS-487 155-160	<5		<0.001		<0.5	<0.02
RS-487 160-165	<5		<0.001		<0.5	<0.02
RS-487 165-170	<5		<0.001		<0.5	<0.02
RS-487 170-175	<5		<0.001		<0.5	<0.02
RS-487 175-180	<5		<0.001		<0.5	<0.02
RS-487 180-185	<5		<0.001		<0.5	<0.02
RS-487 185-190	<5		<0.001		<0.5	<0.02
RS-487 190-195	<5		<0.001		<0.5	<0.02
RS-487 195-200	<5		<0.001		<0.5	<0.02
RS-487 200-205	<5		<0.001		<0.5	<0.02
RS-487 205-210	<5		<0.001		<0.5	<0.02
RS-487 210-215	<5		<0.001		<0.5	<0.02
RS-487 215-220	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 220-225	7		<0.001		<0.5	<0.02
RS-487 225-230	8		<0.001		<0.5	<0.02
RS-487 230-235	11		<0.001		<0.5	<0.02
RS-487 235-240	6		<0.001		<0.5	<0.02
RS-487 240-245	7		<0.001		<0.5	<0.02
RS-487 245-250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 250-255	<5		<0.001		<0.5	<0.02
RS-487 255-260	5		<0.001		<0.5	<0.02
RS-487 260-265	5		<0.001		<0.5	<0.02
RS-487 265-270	<5		<0.001		<0.5	<0.02
RS-487 270-275	9		<0.001		<0.5	<0.02
RS-487 275-280	<5		<0.001		<0.5	<0.02
RS-487 280-285	<5		<0.001		<0.5	<0.02
RS-487 285-290	<5		<0.001		<0.5	<0.02
RS-487 290-295	<5		<0.001		<0.5	<0.02
RS-487 295-300	<5		<0.001		<0.5	<0.02
RS-487 300-305	7		<0.001		<0.5	<0.02
RS-487 305-310	<5		<0.001		<0.5	<0.02
RS-487 310-315	<5		<0.001		<0.5	<0.02
RS-487 315-320	<5		<0.001		<0.5	<0.02
RS-487 320-325	<5		<0.001		<0.5	<0.02
RS-487 325-330	12		<0.001		<0.5	<0.02
RS-487 330-335	5		<0.001		<0.5	<0.02
RS-487 335-340	6		<0.001		<0.5	<0.02
RS-487 340-345	<5		<0.001		<0.5	<0.02
RS-487 345-350	<5		<0.001		<0.5	<0.02
RS-487 350-355	<5		<0.001		<0.5	<0.02
RS-487 355-360	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 360-365	<5		<0.001		<0.5	<0.02
RS-487 365-370	<5		<0.001		<0.5	<0.02
RS-487 370-375	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 375-380	<5		<0.001		<0.5	<0.02
RS-487 380-385	12		<0.001		0.5	<0.02
RS-487 385-390	42		0.001		3.1	0.09
RS-487 390-395	21		<0.001		0.8	0.02
RS-487 395-400	<5		<0.001		<0.5	<0.02
RS-487 400-405	<5		<0.001		<0.5	<0.02
RS-487 405-410	6		<0.001		<0.5	<0.02
RS-487 410-415	<5		<0.001		<0.5	<0.02
RS-487 415-420	<5		<0.001		<0.5	<0.02
RS-487 420-425	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 425-430	6		<0.001		<0.5	<0.02
RS-487 430-435	<5		<0.001		<0.5	<0.02
RS-487 435-440	<5		<0.001		<0.5	<0.02
RS-487 440-445	<5		<0.001		<0.5	<0.02
RS-487 445-450	<5		<0.001		<0.5	<0.02
RS-487 450-455	<5		<0.001		<0.5	<0.02
RS-487 455-460	<5		<0.001		<0.5	<0.02
RS-487 460-465	<5		<0.001		<0.5	<0.02
RS-487 465-470	<5		<0.001		<0.5	<0.02
RS-487 470-475	<5		<0.001		<0.5	<0.02
RS-487 475-480	<5		<0.001		<0.5	<0.02
RS-487 480-485	<5	6	<0.001	<0.001	<0.5	<0.02
RS-487 485-490	8		<0.001		<0.5	<0.02
RS-487 490-495	5		<0.001		<0.5	<0.02
RS-487 495-500	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 500-505	<5		<0.001		<0.5	<0.02
RS-487 505-510	<5		<0.001		<0.5	<0.02
RS-487 510-515	<5		<0.001		<0.5	<0.02
RS-487 515-520	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 520-525	<5		<0.001		<0.5	<0.02
RS-487 525-530	<5		<0.001		<0.5	<0.02
RS-487 530-535	<5		<0.001		<0.5	<0.02
RS-487 535-540	<5		<0.001		<0.5	<0.02
RS-487 540-545	<5		<0.001		<0.5	<0.02
RS-487 545-550	<5		<0.001		<0.5	<0.02
RS-487 550-555	<5		<0.001		<0.5	<0.02
RS-487 555-560	<5		<0.001		<0.5	<0.02
RS-487 560-565	<5		<0.001		<0.5	<0.02
RS-487 565-570	<5		<0.001		<0.5	<0.02
RS-487 570-575	<5		<0.001		<0.5	<0.02
RS-487 575-580	<5		<0.001		<0.5	<0.02
RS-487 580-585	<5		<0.001		<0.5	<0.02
RS-487 585-590	<5		<0.001		<0.5	<0.02
RS-487 590-595	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 595-600	<5		<0.001		<0.5	<0.02
RS-487 600-605	5		<0.001		<0.5	<0.02
RS-487 605-610	<5		<0.001		<0.5	<0.02
RS-487 610-615	<5		<0.001		<0.5	<0.02
RS-487 615-620	<5		<0.001		<0.5	<0.02
RS-487 620-625	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 625-630	<5		<0.001		<0.5	<0.02
RS-487 630-635	<5		<0.001		<0.5	<0.02
RS-487 635-640	<5		<0.001		<0.5	<0.02
RS-487 640-645	<5		<0.001		<0.5	<0.02
75394	1796		0.052		ISF	ISF

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: RS-487 RECEIVED : 28 JAN 2000

No. SAMPLES : 130 REPORTED : 6 MAR 2000

MAIN SAMPLE TYPE : DRILL CUTTINGS

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.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
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REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 000-005	10		<0.001		<0.5	<0.02
RS-487 005-010	8		<0.001		<0.5	<0.02
RS-487 010-015	<5		<0.001		<0.5	<0.02
RS-487 015-020	<5		<0.001		<0.5	<0.02
RS-487 020-025	<5		<0.001		<0.5	<0.02
RS-487 025-030	10		<0.001		<0.5	<0.02
RS-487 030-035	14		<0.001		0.5	<0.02
RS-487 035-040	11		<0.001		<0.5	<0.02
RS-487 040-045	70		0.002		1.6	0.05
RS-487 045-050	23		<0.001		1.2	0.04
RS-487 050-055	20		<0.001		0.5	<0.02
RS-487 055-060	8		<0.001		<0.5	<0.02
RS-487 060-065	<5		<0.001		<0.5	<0.02
RS-487 065-070	<5		<0.001		<0.5	<0.02
RS-487 070-075	<5		<0.001		<0.5	<0.02
RS-487 075-080	<5		<0.001		<0.5	<0.02
RS-487 080-085	<5		<0.001		<0.5	<0.02
RS-487 085-090	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 090-095	<5		<0.001		<0.5	<0.02
RS-487 095-100	<5		<0.001		<0.5	<0.02
RS-487 100-105	<5		<0.001		<0.5	<0.02
RS-487 105-110	<5		<0.001		<0.5	<0.02
RS-487 110-115	<5		<0.001		0.5	<0.02
RS-487 115-120	<5		<0.001		<0.5	<0.02
RS-487 120-125	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

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REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 125-130	<5		<0.001		<0.5	<0.02
RS-487 130-135	<5		<0.001		<0.5	<0.02
RS-487 135-140	<5		<0.001		<0.5	<0.02
RS-487 140-145	<5		<0.001		<0.5	<0.02
RS-487 145-150	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 150-155	<5		<0.001		<0.5	<0.02
RS-487 155-160	<5		<0.001		<0.5	<0.02
RS-487 160-165	<5		<0.001		<0.5	<0.02
RS-487 165-170	<5		<0.001		<0.5	<0.02
RS-487 170-175	<5		<0.001		<0.5	<0.02
RS-487 175-180	<5		<0.001		<0.5	<0.02
RS-487 180-185	<5		<0.001		<0.5	<0.02
RS-487 185-190	<5		<0.001		<0.5	<0.02
RS-487 190-195	<5		<0.001		<0.5	<0.02
RS-487 195-200	<5		<0.001		<0.5	<0.02
RS-487 200-205	<5		<0.001		<0.5	<0.02
RS-487 205-210	<5		<0.001		<0.5	<0.02
RS-487 210-215	<5		<0.001		<0.5	<0.02
RS-487 215-220	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 220-225	7		<0.001		<0.5	<0.02
RS-487 225-230	8		<0.001		<0.5	<0.02
RS-487 230-235	11		<0.001		<0.5	<0.02
RS-487 235-240	6		<0.001		<0.5	<0.02
RS-487 240-245	7		<0.001		<0.5	<0.02
RS-487 245-250	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

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REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 250-255	<5		<0.001		<0.5	<0.02
RS-487 255-260	5		<0.001		<0.5	<0.02
RS-487 260-265	5		<0.001		<0.5	<0.02
RS-487 265-270	<5		<0.001		<0.5	<0.02
RS-487 270-275	9		<0.001		<0.5	<0.02
RS-487 275-280	<5		<0.001		<0.5	<0.02
RS-487 280-285	<5		<0.001		<0.5	<0.02
RS-487 285-290	<5		<0.001		<0.5	<0.02
RS-487 290-295	<5		<0.001		<0.5	<0.02
RS-487 295-300	<5		<0.001		<0.5	<0.02
RS-487 300-305	7		<0.001		<0.5	<0.02
RS-487 305-310	<5		<0.001		<0.5	<0.02
RS-487 310-315	<5		<0.001		<0.5	<0.02
RS-487 315-320	<5		<0.001		<0.5	<0.02
RS-487 320-325	<5		<0.001		<0.5	<0.02
RS-487 325-330	12		<0.001		<0.5	<0.02
RS-487 330-335	5		<0.001		<0.5	<0.02
RS-487 335-340	6		<0.001		<0.5	<0.02
RS-487 340-345	<5		<0.001		<0.5	<0.02
RS-487 345-350	<5		<0.001		<0.5	<0.02
RS-487 350-355	<5		<0.001		<0.5	<0.02
RS-487 355-360	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 360-365	<5		<0.001		<0.5	<0.02
RS-487 365-370	<5		<0.001		<0.5	<0.02
RS-487 370-375	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055768

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 6 MAR 2000

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 375-380	<5		<0.001		<0.5	<0.02
RS-487 380-385	12		<0.001		0.5	<0.02
RS-487 385-390	42		0.001		3.1	0.09
RS-487 390-395	21		<0.001		0.8	0.02
RS-487 395-400	<5		<0.001		<0.5	<0.02
RS-487 400-405	<5		<0.001		<0.5	<0.02
RS-487 405-410	6		<0.001		<0.5	<0.02
RS-487 410-415	<5		<0.001		<0.5	<0.02
RS-487 415-420	<5		<0.001		<0.5	<0.02
RS-487 420-425	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 425-430	6		<0.001		<0.5	<0.02
RS-487 430-435	<5		<0.001		<0.5	<0.02
RS-487 435-440	<5		<0.001		<0.5	<0.02
RS-487 440-445	<5		<0.001		<0.5	<0.02
RS-487 445-450	<5		<0.001		<0.5	<0.02
RS-487 450-455	<5		<0.001		<0.5	<0.02
RS-487 455-460	<5		<0.001		<0.5	<0.02
RS-487 460-465	<5		<0.001		<0.5	<0.02
RS-487 465-470	<5		<0.001		<0.5	<0.02
RS-487 470-475	<5		<0.001		<0.5	<0.02
RS-487 475-480	<5		<0.001		<0.5	<0.02
RS-487 480-485	<5	6	<0.001	<0.001	<0.5	<0.02
RS-487 485-490	8		<0.001		<0.5	<0.02
RS-487 490-495	5		<0.001		<0.5	<0.02
RS-487 495-500	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 500-505	<5		<0.001		<0.5	<0.02
RS-487 505-510	<5		<0.001		<0.5	<0.02
RS-487 510-515	<5		<0.001		<0.5	<0.02
RS-487 515-520	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 520-525	<5		<0.001		<0.5	<0.02
RS-487 525-530	<5		<0.001		<0.5	<0.02
RS-487 530-535	<5		<0.001		<0.5	<0.02
RS-487 535-540	<5		<0.001		<0.5	<0.02
RS-487 540-545	<5		<0.001		<0.5	<0.02
RS-487 545-550	<5		<0.001		<0.5	<0.02
RS-487 550-555	<5		<0.001		<0.5	<0.02
RS-487 555-560	<5		<0.001		<0.5	<0.02
RS-487 560-565	<5		<0.001		<0.5	<0.02
RS-487 565-570	<5		<0.001		<0.5	<0.02
RS-487 570-575	<5		<0.001		<0.5	<0.02
RS-487 575-580	<5		<0.001		<0.5	<0.02
RS-487 580-585	<5		<0.001		<0.5	<0.02
RS-487 585-590	<5		<0.001		<0.5	<0.02
RS-487 590-595	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-487 595-600	<5		<0.001		<0.5	<0.02
RS-487 600-605	5		<0.001		<0.5	<0.02
RS-487 605-610	<5		<0.001		<0.5	<0.02
RS-487 610-615	<5		<0.001		<0.5	<0.02
RS-487 615-620	<5		<0.001		<0.5	<0.02
RS-487 620-625	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-487 625-630	<5		<0.001		<0.5	<0.02
RS-487 630-635	<5		<0.001		<0.5	<0.02
RS-487 635-640	<5		<0.001		<0.5	<0.02
RS-487 640-645	<5		<0.001		<0.5	<0.02
75394	1796		0.052		ISF	ISF

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CLIENT: *HECLA MINING CO.*
CLIENT REF: KURT ALLEN
AAL REF: Sp55768
METHOD: AAL03-0

ELEMENT SAMPLES	Ag ppb	Al %	As ppm	Au ppb	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RS-487 000-020	195	0.8	13.2	4.8	6	59.8	0.13	0.52	0.02	0.5	2.4	6.17	1.42	3	31	0.37	30.9	0.06	66	1.97	0.084	2.5	0.01	28.5	0.23	3.19	1.1	98.2	< .02	11	< .001	0.18	0.8	5	< .2	12.9
RS-487 020-040	273	0.9	18.9	13.3	2	30.3	0.12	0.16	0.01	0.3	2.4	7.18	1.49	3	62	0.41	33.1	0.02	32	1.74	0.028	1.9	0.007	27.04	0.4	6.32	1.6	50.2	< .02	11.8	< .001	0.2	0.7	2	< .2	13.9
RS-487 040-060	648	0.84	40.2	34.5	< 1	19.6	0.14	0.11	0.18	0.8	4	9.52	2.45	2.2	128	0.33	30	0.02	37	5.15	0.008	2.3	0.008	36.63	1.73	6.71	3.8	41.8	< .02	10.7	< .001	0.26	6.7	3	0.4	57.3
RS-487 060-080	128	0.85	6.4	2.4	< 1	68.9	0.12	0.24	0.21	0.7	2.4	5.3	1.47	2.4	104	0.32	34.8	0.03	46	1.8	0.025	1.3	0.02	29.71	0.22	1.8	0.3	133.4	< .02	12.1	0.003	0.12	1.7	5	0.4	66.9
RS-487 080-100	230	0.83	2.8	1.7	< 1	112.7	0.2	0.42	0.05	0.9	2.2	5.19	2.1	3.1	32	0.32	30.2	0.05	252	1.28	0.048	1.5	0.022	24.57	< .01	1.12	0.2	165.4	< .02	11.5	0.011	0.09	2	7	0.9	38.6
RS-487 100-120	317	1.25	3	1.5	< 1	607.1	0.47	1.62	0.31	3.5	4.4	10.59	3.15	4.5	6	0.5	30.2	0.16	1060	1.24	0.03	2.3	0.087	20.3	0.01	1.26	0.3	275.8	0.02	7.9	0.015	0.14	2.7	22	0.8	42.3
RS-487 120-140	117	1.26	2.6	0.8	2	168.7	0.22	1.45	0.18	4	4.9	9.68	3.41	4.6	< 5	0.46	24.9	0.15	641	1.1	0.039	2.2	0.111	14.29	0.01	0.78	0.3	263.8	< .02	6.9	0.025	0.12	2.7	27	0.7	49.7
RS-487 140-160	144	1.35	4.6	0.9	< 1	191.6	0.51	1.87	0.23	4.9	4.2	9.34	3.27	5.1	17	0.53	27.1	0.16	879	0.59	0.039	2.4	0.118	19.3	< .01	0.6	0.2	341.9	0.02	7	0.03	0.14	2.6	22	0.5	43.4
RS-487 160-180	123	1.16	2.3	1.2	< 1	93.8	0.18	1.41	0.18	3.7	4.3	9.07	3.27	4.9	< 5	0.43	27.4	0.12	589	0.99	0.047	2.2	0.107	16.85	< .01	0.45	0.2	250.4	< .02	6.8	0.026	0.12	2.7	24	0.6	35.4
RS-487 180-200	85	1	2.1	0.5	2	102.7	0.12	1.13	0.6	4.9	7.3	11.27	4.06	4.6	< 5	0.4	23	0.13	616	1.6	0.062	3.7	0.112	13.82	< .01	0.55	0.2	166.3	< .02	5.6	0.053	0.14	1.9	26	0.6	52.5
RS-487 200-220	81	0.85	2.3	0.7	1	94.8	0.08	1.29	0.13	4.4	5.5	9.37	3.67	4	< 5	0.31	22.1	0.12	662	1.36	0.056	3.1	0.106	12.95	< .01	0.41	0.2	165.8	< .02	5.7	0.039	0.09	2.5	23	0.5	45
RS-487 220-240	58	1.88	4.1	0.3	< 1	169.4	0.06	1.65	0.17	6.1	5	8.09	4.2	6.8	12	0.5	35.6	0.25	879	0.58	0.07	2.6	0.137	21.18	< .01	0.48	0.2	429.2	0.02	7.6	0.022	0.39	2	21	< .2	76
RS-487 240-260	106	1.86	2.5	1	< 1	86.6	0.06	1.92	0.29	7.1	4.1	10.87	4.02	6.2	7	0.48	35.3	0.29	970	0.39	0.07	2.6	0.137	23.69	< .01	0.55	0.2	483.9	0.03	7.1	0.02	0.41	1.5	20	< .2	87.3
RS-487 260-280	131	1.01	1.2	1	< 1	213.7	0.05	2.27	0.23	4.6	4.3	12.08	3.47	4.7	< 5	0.37	29.7	0.15	1149	1.31	0.06	2.4	0.115	25.83	0.01	0.94	0.3	245.5	< .02	7.1	0.04	0.14	3.3	23	0.6	54.8
RS-487 280-300	127	1.17	1.1	1.3	1	105.1	0.08	2.09	0.17	5.3	3.3	20.22	3.42	4.8	< 5	0.42	27.7	0.17	695	0.91	0.056	2.5	0.109	24.81	0.01	0.9	0.2	249.5	< .02	7.1	0.042	0.15	2.8	21	0.6	63.9
RS-487 300-320	141	1.09	0.9	1.5	< 1	151.3	0.15	2.09	0.16	5.1	3.7	14.26	3.82	4.2	41	0.41	29.8	0.13	568	0.31	0.061	2	0.125	21.42	0.03	1.5	0.2	330	0.02	5.8	0.053	0.11	3.2	14	0.4	76.7
RS-487 320-340	143	0.89	0.2	3.9	< 1	113.4	0.23	2.56	0.35	5.1	3.4	13.19	3.37	3.9	84	0.33	28.3	0.13	1081	0.34	0.051	2.3	0.113	24.53	< .01	1.56	0.2	298.6	0.02	5.8	0.051	0.09	2.4	12	0.3	82.2
RS-487 340-360	160	1.19	1.2	2.1	< 1	80.1	0.25	2.62	0.34	7.1	3.1	11.53	3.83	4.9	85	0.4	29.4	0.16	1031	0.31	0.053	2.4	0.118	41.93	0.18	2.28	0.2	312	0.02	6.3	0.044	0.11	2.1	11	0.5	92.9
RS-487 360-380	232	1.45	6.7	3	< 1	64.1	0.6	2.44	0.33	7.4	3.8	14.02	4.01	6	80	0.32	25.3	0.18	1029	0.86	0.044	2.4	0.119	31.25	0.99	3.85	0.4	238.6	0.02	4.9	0.008	0.15	2.2	15	0.2	108.2
RS-487 380-400	943	1.15	53	18.7	< 1	63.5	0.89	0.6	0.16	6.5	3	11.45	4.14	4.3	50	0.3	22.1	0.12	291	1.66	0.036	2.5	0.106	19.63	2.37	10.38	4.7	111.3	< .02	5.5	0.008	0.39	1.4	13	< .2	85.4
RS-487 400-420	212	0.91	8.5	2.3	< 1	72.7	0.11	1.56	0.11	6	4.6	10.77	3.44	3.6	29	0.3	24.6	0.12	711	1.19	0.041	2.9	0.104	15.15	0.5	2.63	0.6	165.9	< .02	7	0.032	0.14	1.8	17	0.4	64.7
RS-487 420-440	128	0.83	3.3	1.6	< 1	76.3	0.03	1.89	0.15	4.8	4.8	10.89	3.41	3.3	33	0.32	24.8	0.09	790	1.3	0.045	2.7	0.103	11.56	0.3	2.82	0.5	178.2	< .02	7.1	0.043	0.15	2.4	21	0.6	57.7
RS-487 440-460	86	0.73	2.6	0.4	< 1	86	0.09	1.99	0.14	3.5	2.9	10.18	3.43	3.4	15	0.35	27.2	0.08	882	1.14	0.055	2.3	0.101	11.29	0.01	1.18	0.2	167.2	< .02	9	0.06	0.1	2	18	0.7	49.1
RS-487 460-480	135	1.12	7.7	1.2	1	414.9	0.4	1.35	0.2	3.8	2.8	9.88	3.55	4.6	39	0.42	27.2	0.11	522	0.92	0.057	2.3	0.101	22.66	0.28	1.52	0.2	157	< .02	8.4	0.037	0.16	2.2	13	0.6	70
RS-487 480-500	225	0.99	18.3	4.3	< 1	78.9	0.2	1.17	0.08	2.1	1.2	3.6	1.44	2.8	60	0.28	29.4	0.1	319	1.2	0.068	1.2	0.033	35.16	0.6	4.9	0.6	190.3	< .02	6.8	0.004	0.19	1.3	3	< .2	46.8
RS-487 500-520	221	1.21	3.9	3.9	< 1	420.5	0.24	1.87	0.11	1.3	1.5	2.93	0.95	3.3	48	0.38	28.1	0.13	492	0.22	0.07	1.1	0.038	50.03	0.21	1.19	0.1	192.6	< .02	6.7	0.005	0.16	1.6	4	< .2	44.2
RS-487 520-540	150	1.18	0.9	1.9	< 1	85.8	0.16	1.82	0.15	0.8	1.4	2.43	0.85	3.2	70	0.37	28.4	0.13	645	0.2	0.071	1	0.027	37.47	0.03	0.35	< .1	183.9	< .02	7.2	0.007	0.15	1.5	3	< .2	46.7
RS-487 540-560	233	1.38	1.9	1.4	< 1	62	0.24	0.98	0.11	1.1	1.6	2.22	0.81	3.8	100	0.41	34	0.19	288	0.14	0.079	0.9	0.023	33.05	0.04	0.26	< .1	180	0.02	7	0.003	0.15	1.6	2	< .2	59.1
RS-487 560-580	163	1.01	5.1	2.5	< 1	106.6	0.38	2.02	0.15	2.2	3.7	9.83	2.62	4.1	29	0.4	17.3	0.07	706	1.24	0.077	2.9	0.039	29.06	0.27	1.47	0.3	160.2	< .02	7	0.025	0.14	1.6	9	0.7	86.8
RS-487 580-600	144	1.01	1.8	0.9	< 1	80.3	0.25	1.8	0.37	1.2	2.2	7.04	2.27	4.3	31	0.45	18.8	0.05	930	0.94	0.086	1.7	0.044	35.45	0.06	1.28	0.3	134.9	< .02	7.5	0.029	0.13	1.4	11	0.8	59.5
RS-487 600-620	178	0.89	7.8	1.4	< 1	67.3	1.33	1.11	0.23	1.5	2.2	5.45	2.17	3.8	52	0.39	18.5	0.05	590	0.8	0.059	1.2	0.042	31.86	0.28	2.01	0.4	129.5	< .02	7.9	0.021	0.18	1.4	10	0.8	61.8
RS-487 620-645	85	0.69	3.3	1.1	< 1	96.3	0.43	1.94	0.3	1	1.9	4.94	2.23	3.4	14	0.33	19.6	0.04	876	0.96	0.047	1.4	0.042	26.83	0.01	2.58	0.2	117.7	< .02	8.3	0.027	0.11	1.4	10	1.3	26.2
75394	36429	1.02	65.6	2187.2	< 1	99.3	0.59	0.87	0.21	2.7	21.5	12.38	1.98	2.9	240	0.41	16.6	0.09	249	8.63	0.028	10.9	0.057	20.42	2.12	9.3	17.4	88.3	0.04	3.1	0.002	0.31	0.6	3	0.4	74.8
STANDARD DS2	251	1.88	62.1	220.1	< 1	157.8	10.94	0.56	10.26	11.7	166.3	129.18	3.35	6.3	248	0.18	15.5	0.62	842	14.61	0.034	36.6	0.092	34.07	0.01	8.82	2.1	30.8	1.96	3.7	0.099	1.85	18.7	78	6.6	164.6

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CLIENT: *HECLA MINING CO.*
CLIENT REF: KURT ALLEN
AAL REF: Sp55768
METHOD: AAL03-0

ELEMENT	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn
SAMPLES	ppb	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
RS-487 000-020	195	0.8	13.2	4.8	6	59.8	0.13	0.52	0.02	0.5	2.4	6.17	1.42	3	31	0.37	30.9	0.06	66	1.97	0.084	2.5	0.01	28.5	0.23	3.19	1.1	98.2	< .02	11	< .001	0.18	0.8	5	< .2	12.9
RS-487 020-040	273	0.9	18.9	13.3	2	30.3	0.12	0.16	0.01	0.3	2.4	7.18	1.49	3	62	0.41	33.1	0.02	32	1.74	0.028	1.9	0.007	27.04	0.4	6.32	1.6	50.2	< .02	11.8	< .001	0.2	0.7	2	< .2	13.9
RS-487 040-060	648	0.84	40.2	34.5	< 1	19.6	0.14	0.11	0.18	0.8	4	9.52	2.45	2.2	128	0.33	30	0.02	37	5.15	0.008	2.3	0.008	36.63	1.73	6.71	3.8	41.8	< .02	10.7	< .001	0.26	6.7	3	0.4	57.3
RS-487 060-080	128	0.85	6.4	2.4	< 1	68.9	0.12	0.24	0.21	0.7	2.4	5.3	1.47	2.4	104	0.32	34.8	0.03	46	1.8	0.025	1.3	0.02	29.71	0.22	1.8	0.3	133.4	< .02	12.1	0.003	0.12	1.7	5	0.4	66.9
RS-487 080-100	230	0.83	2.8	1.7	< 1	112.7	0.2	0.42	0.05	0.9	2.2	5.19	2.1	3.1	32	0.32	30.2	0.05	252	1.28	0.048	1.5	0.022	24.57	< .01	1.12	0.2	165.4	< .02	11.5	0.011	0.09	2	7	0.9	38.6
RS-487 100-120	317	1.25	3	1.5	< 1	607.1	0.47	1.62	0.31	3.5	4.4	10.59	3.15	4.5	6	0.5	30.2	0.16	1060	1.24	0.03	2.3	0.087	20.3	0.01	1.26	0.3	275.8	0.02	7.9	0.015	0.14	2.7	22	0.8	42.3
RS-487 120-140	117	1.26	2.6	0.8	2	168.7	0.22	1.45	0.18	4	4.9	9.68	3.41	4.6	< 5	0.46	24.9	0.15	641	1.1	0.039	2.2	0.111	14.29	0.01	0.78	0.3	263.8	< .02	6.9	0.025	0.12	2.7	27	0.7	49.7
RS-487 140-160	144	1.35	4.6	0.9	< 1	191.6	0.51	1.87	0.23	4.9	4.2	9.34	3.27	5.1	17	0.53	27.1	0.16	879	0.59	0.039	2.4	0.118	19.3	< .01	0.6	0.2	341.9	0.02	7	0.03	0.14	2.6	22	0.5	43.4
RS-487 160-180	123	1.16	2.3	1.2	< 1	93.8	0.18	1.41	0.18	3.7	4.3	9.07	3.27	4.9	< 5	0.43	27.4	0.12	589	0.99	0.047	2.2	0.107	16.85	< .01	0.45	0.2	250.4	< .02	6.8	0.026	0.12	2.7	24	0.6	35.4
RS-487 180-200	85	1	2.1	0.5	2	102.7	0.12	1.13	0.6	4.9	7.3	11.27	4.06	4.6	< 5	0.4	23	0.13	616	1.6	0.062	3.7	0.112	13.82	< .01	0.55	0.2	166.3	< .02	5.6	0.053	0.14	1.9	26	0.6	52.5
RS-487 200-220	81	0.85	2.3	0.7	1	94.8	0.08	1.29	0.13	4.4	5.5	9.37	3.67	4	< 5	0.31	22.1	0.12	662	1.36	0.056	3.1	0.106	12.95	< .01	0.41	0.2	165.8	< .02	5.7	0.039	0.09	2.5	23	0.5	45
RS-487 220-240	58	1.88	4.1	0.3	< 1	169.4	0.06	1.65	0.17	6.1	5	8.09	4.2	6.8	12	0.5	35.6	0.25	879	0.58	0.07	2.6	0.137	21.18	< .01	0.48	0.2	429.2	0.02	7.6	0.022	0.39	2	21	< .2	76
RS-487 240-260	106	1.86	2.5	1	< 1	86.6	0.06	1.92	0.29	7.1	4.1	10.87	4.02	6.2	7	0.48	35.3	0.29	970	0.39	0.07	2.6	0.137	23.69	< .01	0.55	0.2	483.9	0.03	7.1	0.02	0.41	1.5	20	< .2	87.3
RS-487 260-280	131	1.01	1.2	1	< 1	213.7	0.05	2.27	0.23	4.6	4.3	12.08	3.47	4.7	< 5	0.37	29.7	0.15	1149	1.31	0.06	2.4	0.115	25.83	0.01	0.94	0.3	245.5	< .02	7.1	0.04	0.14	3.3	23	0.6	54.8
RS-487 280-300	127	1.17	1.1	1.3	1	105.1	0.08	2.09	0.17	5.3	3.3	20.22	3.42	4.8	< 5	0.42	27.7	0.17	695	0.91	0.056	2.5	0.109	24.81	0.01	0.9	0.2	249.5	< .02	7.1	0.042	0.15	2.8	21	0.6	63.9
RS-487 300-320	141	1.09	0.9	1.5	< 1	151.3	0.15	2.09	0.16	5.1	3.7	14.26	3.82	4.2	41	0.41	29.8	0.13	568	0.31	0.061	2	0.125	21.42	0.03	1.5	0.2	330	0.02	5.8	0.053	0.11	3.2	14	0.4	76.7
RS-487 320-340	143	0.89	0.2	3.9	< 1	113.4	0.23	2.56	0.35	5.1	3.4	13.19	3.37	3.9	84	0.33	28.3	0.13	1081	0.34	0.051	2.3	0.113	24.53	< .01	1.56	0.2	298.6	0.02	5.8	0.051	0.09	2.4	12	0.3	82.2
RS-487 340-360	160	1.19	1.2	2.1	< 1	80.1	0.25	2.62	0.34	7.1	3.1	11.53	3.83	4.9	85	0.4	29.4	0.16	1031	0.31	0.053	2.4	0.118	41.93	0.18	2.28	0.2	312	0.02	6.3	0.044	0.11	2.1	11	0.5	92.9
RS-487 360-380	232	1.45	6.7	3	< 1	64.1	0.6	2.44	0.33	7.4	3.8	14.02	4.01	6	80	0.32	25.3	0.18	1029	0.86	0.044	2.4	0.119	31.25	0.99	3.85	0.4	238.6	0.02	4.9	0.008	0.15	2.2	15	0.2	108.2
RS-487 380-400	943	1.15	53	18.7	< 1	63.5	0.89	0.6	0.16	6.5	3	11.45	4.14	4.3	50	0.3	22.1	0.12	291	1.66	0.036	2.5	0.106	19.63	2.37	10.38	4.7	111.3	< .02	5.5	0.008	0.39	1.4	13	< .2	85.4
RS-487 400-420	212	0.91	8.5	2.3	< 1	72.7	0.11	1.56	0.11	6	4.6	10.77	3.44	3.6	29	0.3	24.6	0.12	711	1.19	0.041	2.9	0.104	15.15	0.5	2.63	0.6	165.9	< .02	7	0.032	0.14	1.8	17	0.4	64.7
RS-487 420-440	128	0.83	3.3	1.6	< 1	76.3	0.03	1.89	0.15	4.8	4.8	10.89	3.41	3.3	33	0.32	24.8	0.09	790	1.3	0.045	2.7	0.103	11.56	0.3	2.82	0.5	178.2	< .02	7.1	0.043	0.15	2.4	21	0.6	57.7
RS-487 440-460	86	0.73	2.6	0.4	< 1	86	0.09	1.99	0.14	3.5	2.9	10.18	3.43	3.4	15	0.35	27.2	0.08	882	1.14	0.055	2.3	0.101	11.29	0.01	1.18	0.2	167.2	< .02	9	0.06	0.1	2	18	0.7	49.1
RS-487 460-480	135	1.12	7.7	1.2	1	414.9	0.4	1.35	0.2	3.8	2.8	9.88	3.55	4.6	39	0.42	27.2	0.11	522	0.92	0.057	2.3	0.101	22.66	0.28	1.52	0.2	157	< .02	8.4	0.037	0.16	2.2	13	0.6	70
RS-487 480-500	225	0.99	18.3	4.3	< 1	78.9	0.2	1.17	0.08	2.1	1.2	3.6	1.44	2.8	60	0.28	29.4	0.1	319	1.2	0.068	1.2	0.033	35.16	0.6	4.9	0.6	190.3	< .02	6.8	0.004	0.19	1.3	3	< .2	46.8
RS-487 500-520	221	1.21	3.9	3.9	< 1	420.5	0.24	1.87	0.11	1.3	1.5	2.93	0.95	3.3	48	0.38	28.1	0.13	492	0.22	0.07	1.1	0.038	50.03	0.21	1.19	0.1	192.6	< .02	6.7	0.005	0.16	1.6	4	< .2	44.2
RS-487 520-540	150	1.18	0.9	1.9	< 1	85.8	0.16	1.82	0.15	0.8	1.4	2.43	0.85	3.2	70	0.37	28.4	0.13	645	0.2	0.071	1	0.027	37.47	0.03	0.35	< .1	183.9	< .02	7.2	0.007	0.15	1.5	3	< .2	46.7
RS-487 540-560	233	1.38	1.9	1.4	< 1	62	0.24	0.98	0.11	1.1	1.6	2.22	0.81	3.8	100	0.41	34	0.19	288	0.14	0.079	0.9	0.023	33.05	0.04	0.26	< .1	180	0.02	7	0.003	0.15	1.6	2	< .2	59.1
RS-487 560-580	163	1.01	5.1	2.5	< 1	106.6	0.38	2.02	0.15	2.2	3.7	9.83	2.62	4.1	29	0.4	17.3	0.07	706	1.24	0.077	2.9	0.039	29.06	0.27	1.47	0.3	160.2	< .02	7	0.025	0.14	1.6	9	0.7	86.8
RS-487 580-600	144	1.01	1.8	0.9	< 1	80.3	0.25	1.8	0.37	1.2	2.2	7.04	2.27	4.3	31	0.45	18.8	0.05	930	0.94	0.086	1.7	0.044	35.45	0.06	1.28	0.3	134.9	< .02	7.5	0.029	0.13	1.4	11	0.8	59.5
RS-487 600-620	178	0.89	7.8	1.4	< 1	67.3	1.33	1.11	0.23	1.5	2.2	5.45	2.17	3.8	52	0.39	18.5	0.05	590	0.8	0.059	1.2	0.042	31.86	0.28	2.01	0.4	129.5	< .02	7.9	0.021	0.18	1.4	10	0.8	61.8
RS-487 620-645	85	0.69	3.3	1.1	< 1	96.3	0.43	1.94	0.3	1	1.9	4.94	2.23	3.4	14	0.33	19.6	0.04	876	0.96	0.047	1.4	0.042	26.83	0.01	2.58	0.2	117.7	< .02	8.3	0.027	0.11	1.4	10	1.3	26.2
75394	36429	1.02	65.6	2187.2	< 1	99.3	0.59	0.87	0.21	2.7	21.5	12.38	1.98	2.9	240	0.41	16.6	0.09	249	8.63	0.028	10.9	0.057	20.42	2.12	9.3	17.4	88.3	0.04	3.1	0.002	0.31	0.6	3	0.4	74.8
STANDARD DS2	251	1.88	62.1	220.1	< 1	157.8	10.94	0.56	10.26	11.7	166.3	129.18	3.35	6.3	248	0.18	15.5	0.62	842	14.61	0.034	36.6	0.092	34.07	0.01	8.82	2.1	30.8	1.96	3.7	0.099	1.85	18.7	78	6.6	164.6

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CLIENT: *HECLA MINING CO.*
CLIENT REF: KURT ALLEN
AAL REF: Sp65768
METHOD: AAL03-0

ELEMENT SAMPLES	Ag ppb	Al %	As ppm	Au ppb	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RS-487 000-020	195	0.8	13.2	4.8	6	59.8	0.13	0.52	0.02	0.6	2.4	6.17	1.42	3	31	0.37	30.9	0.06	66	1.97	0.084	2.5	0.01	28.5	0.23	3.19	1.1	98.2	<.02	11	<.001	0.18	0.8	5	<.2	12.9
RS-487 020-040	273	0.9	19.9	13.3	2	30.3	0.12	0.16	0.01	0.3	2.4	7.18	1.49	3	62	0.41	33.1	0.02	32	1.74	0.028	1.9	0.007	27.04	0.4	6.32	1.6	50.2	<.02	11.8	<.001	0.2	0.7	2	<.2	13.9
RS-487 040-060	648	0.84	40.2	34.6	<1	19.6	0.14	0.11	0.18	0.8	4	9.52	2.45	2.2	128	0.33	30	0.02	37	5.15	0.008	2.3	0.008	36.63	1.73	6.71	3.8	41.8	<.02	10.7	<.001	0.26	6.7	3	0.4	57.3
RS-487 060-080	128	0.86	6.4	2.4	<1	68.9	0.12	0.24	0.21	0.7	2.4	5.3	1.47	2.4	104	0.32	34.8	0.03	46	1.8	0.025	1.3	0.02	29.71	0.22	1.8	0.3	133.4	<.02	12.1	0.003	0.12	1.7	5	0.4	66.9
RS-487 080-100	230	0.83	2.8	1.7	<1	112.7	0.2	0.42	0.05	0.8	2.2	6.19	2.1	3.1	32	0.32	30.2	0.06	252	1.28	0.048	1.5	0.022	24.57	<.01	1.12	0.2	165.4	<.02	11.5	0.011	0.09	2	7	0.9	38.6
RS-487 100-120	317	1.25	3	1.5	<1	607.1	0.47	1.62	0.31	3.5	4.4	10.59	3.15	4.5	6	0.6	30.2	0.16	1060	1.24	0.03	2.3	0.087	20.3	0.01	1.26	0.3	275.8	0.02	7.9	0.015	0.14	2.7	22	0.8	42.3
RS-487 120-140	117	1.29	2.6	0.8	2	168.7	0.22	1.46	0.18	4	4.9	9.58	3.41	4.6	<5	0.46	24.9	0.16	641	1.1	0.039	2.2	0.111	14.29	0.01	0.79	0.3	253.8	<.02	6.9	0.025	0.12	2.7	27	0.7	49.7
RS-487 140-160	144	1.35	4.6	0.9	<1	191.6	0.51	1.87	0.23	4.9	4.2	9.34	3.27	5.1	17	0.53	27.1	0.16	879	0.59	0.039	2.4	0.118	19.3	<.01	0.6	0.2	341.9	0.02	7	0.03	0.14	2.6	22	0.5	43.4
RS-487 160-180	123	1.16	2.3	1.2	<1	93.8	0.18	1.41	0.18	3.7	4.3	9.07	3.27	4.9	<5	0.43	27.4	0.12	589	0.99	0.047	2.2	0.107	16.85	<.01	0.45	0.2	250.4	<.02	6.8	0.026	0.12	2.7	24	0.6	36.4
RS-487 180-200	86	1	2.1	0.5	2	102.7	0.12	1.13	0.6	4.9	7.3	11.27	4.08	4.6	<5	0.4	23	0.13	616	1.6	0.062	3.7	0.112	13.82	<.01	0.55	0.2	166.3	<.02	5.6	0.053	0.14	1.9	26	0.6	52.5
RS-487 200-220	81	0.85	2.3	0.7	1	94.8	0.08	1.29	0.13	4.4	5.6	9.37	3.67	4	<5	0.31	22.1	0.12	682	1.36	0.056	3.1	0.106	12.95	<.01	0.41	0.2	165.8	<.02	5.7	0.039	0.09	2.5	23	0.5	46
RS-487 220-240	58	1.88	4.1	0.3	<1	169.4	0.06	1.65	0.17	6.1	5	8.09	4.2	6.8	12	0.5	35.6	0.25	879	0.58	0.07	2.6	0.137	21.18	<.01	0.48	0.2	429.2	0.02	7.6	0.022	0.39	2	21	<.2	76
RS-487 240-260	106	1.86	2.5	1	<1	86.6	0.06	1.92	0.29	7.1	4.1	10.87	4.02	6.2	7	0.48	35.3	0.29	970	0.39	0.07	2.6	0.137	23.69	<.01	0.55	0.2	483.9	0.03	7.1	0.02	0.41	1.6	20	<.2	87.3
RS-487 260-280	131	1.01	1.2	1	<1	213.7	0.06	2.27	0.23	4.6	4.3	12.98	3.47	4.7	<5	0.37	29.7	0.16	1149	1.31	0.06	2.4	0.115	25.83	0.01	0.94	0.3	245.5	<.02	7.1	0.04	0.14	3.3	23	0.6	54.8
RS-487 280-300	127	1.17	1.1	1.3	1	106.1	0.08	2.09	0.17	5.3	3.3	20.22	3.42	4.8	<5	0.42	27.7	0.17	695	0.91	0.056	2.5	0.109	24.81	0.01	0.9	0.2	249.5	<.02	7.1	0.042	0.15	2.8	21	0.6	63.9
RS-487 300-320	141	1.09	0.9	1.6	<1	161.3	0.15	2.09	0.16	5.1	3.7	14.26	3.82	4.2	41	0.41	29.8	0.13	568	0.31	0.061	2	0.125	21.42	0.03	1.5	0.2	330	0.02	5.8	0.063	0.11	3.2	14	0.4	76.7
RS-487 320-340	143	0.89	0.2	3.9	<1	113.4	0.23	2.56	0.35	5.1	3.4	13.19	3.37	3.9	84	0.33	28.3	0.13	1081	0.34	0.051	2.3	0.113	24.53	<.01	1.56	0.2	298.6	0.02	5.8	0.051	0.09	2.4	12	0.3	82.2
RS-487 340-360	160	1.19	1.2	2.1	<1	80.1	0.25	2.62	0.34	7.1	3.1	11.63	3.83	4.9	85	0.4	29.4	0.16	1031	0.31	0.063	2.4	0.118	41.93	0.18	2.28	0.2	312	0.02	6.3	0.044	0.11	2.1	11	0.5	92.9
RS-487 360-380	232	1.45	6.7	3	<1	64.1	0.6	2.44	0.33	7.4	3.8	14.02	4.01	6	80	0.32	25.3	0.18	1029	0.86	0.044	2.4	0.119	31.25	0.99	3.86	0.4	238.6	0.02	4.9	0.008	0.15	2.2	15	0.2	108.2
RS-487 380-400	943	1.15	53	18.7	<1	63.5	0.89	0.6	0.16	6.5	3	11.45	4.14	4.3	50	0.3	22.1	0.12	291	1.66	0.036	2.5	0.106	19.63	2.37	10.38	4.7	111.3	<.02	5.5	0.008	0.39	1.4	13	<.2	85.4
RS-487 400-420	212	0.91	8.5	2.3	<1	72.7	0.11	1.56	0.11	6	4.6	10.77	3.44	3.6	29	0.3	24.6	0.12	711	1.19	0.041	2.9	0.104	15.16	0.5	2.63	0.6	166.9	<.02	7	0.032	0.14	1.8	17	0.4	64.7
RS-487 420-440	128	0.83	3.3	1.6	<1	76.3	0.03	1.89	0.15	4.8	4.8	10.89	3.41	3.3	33	0.32	24.8	0.09	790	1.3	0.045	2.7	0.103	11.66	0.3	2.82	0.6	178.2	<.02	7.1	0.043	0.15	2.4	21	0.6	67.7
RS-487 440-460	96	0.73	2.6	0.4	<1	86	0.08	1.99	0.14	3.5	2.9	10.18	3.43	3.4	16	0.35	27.2	0.08	882	1.14	0.055	2.3	0.101	11.29	0.01	1.18	0.2	167.2	<.02	9	0.06	0.1	2	18	0.7	49.1
RS-487 460-480	136	1.12	7.7	1.2	1	414.9	0.4	1.35	0.2	3.8	2.8	9.88	3.65	4.6	39	0.42	27.2	0.11	522	0.92	0.057	2.3	0.101	22.66	0.28	1.52	0.2	157	<.02	8.4	0.037	0.16	2.2	13	0.6	70
RS-487 480-500	226	0.98	18.3	4.3	<1	78.9	0.2	1.17	0.08	2.1	1.2	3.6	1.44	2.8	60	0.28	29.4	0.1	319	1.2	0.068	1.2	0.033	36.16	0.6	4.9	0.6	190.3	<.02	6.8	0.004	0.19	1.3	3	<.2	46.8
RS-487 500-520	221	1.21	3.9	3.9	<1	420.5	0.24	1.87	0.11	1.3	1.5	2.93	0.95	3.3	48	0.38	28.1	0.13	492	0.22	0.07	1.1	0.038	50.03	0.21	1.19	0.1	192.6	<.02	6.7	0.005	0.16	1.6	4	<.2	44.2
RS-487 520-540	160	1.18	0.9	1.9	<1	85.8	0.16	1.82	0.16	0.8	1.4	2.43	0.85	3.2	70	0.37	28.4	0.13	645	0.2	0.071	1	0.027	37.47	0.03	0.35	<.1	183.9	<.02	7.2	0.007	0.16	1.5	3	<.2	46.7
RS-487 540-560	233	1.38	1.9	1.4	<1	62	0.24	0.98	0.11	1.1	1.6	2.22	0.81	3.8	100	0.41	34	0.19	288	0.14	0.079	0.9	0.023	33.05	0.04	0.26	<.1	180	0.02	7	0.003	0.15	1.6	2	<.2	59.1
RS-487 560-580	163	1.01	5.1	2.5	<1	106.6	0.38	2.02	0.16	2.2	3.7	9.83	2.62	4.1	29	0.4	17.3	0.07	706	1.24	0.077	2.9	0.039	29.06	0.27	1.47	0.3	160.2	<.02	7	0.025	0.14	1.6	9	0.7	86.8
RS-487 580-600	144	1.01	1.8	0.9	<1	80.3	0.25	1.8	0.37	1.2	2.2	7.04	2.27	4.3	31	0.45	18.8	0.05	930	0.94	0.065	1.7	0.044	35.45	0.06	1.28	0.3	134.9	<.02	7.5	0.029	0.13	1.4	11	0.8	59.5
RS-487 600-620	178	0.89	7.8	1.4	<1	67.3	1.33	1.11	0.23	1.5	2.2	5.45	2.17	3.8	52	0.39	18.5	0.05	590	0.8	0.059	1.2	0.042	31.86	0.28	2.01	0.4	129.5	<.02	7.9	0.021	0.18	1.4	10	0.8	61.8
RS-487 620-645	86	0.69	3.3	1.1	<1	96.3	0.43	1.94	0.3	1	1.9	4.94	2.23	3.4	14	0.33	19.6	0.04	876	0.96	0.047	1.4	0.042	26.83	0.01	2.58	0.2	117.7	<.02	8.3	0.027	0.11	1.4	10	1.3	26.2
75394	36429	1.02	66.6	2187.2	<1	99.3	0.59	0.87	0.21	2.7	21.5	12.38	1.98	2.9	240	0.41	16.6	0.09	249	8.63	0.028	10.9	0.057	20.42	2.12	9.3	17.4	88.3	0.04	3.1	0.002	0.31	0.6	3	0.4	74.8
STANDARD DS2	261	1.88	62.1	220.1	<1	157.8	10.94	0.66	10.26	11.7	166.3	129.18	3.35	6.3	248	0.18	15.6	0.62	842	14.61	0.034	36.6	0.092	34.07	0.01	8.82	2.1	30.8	1.96	3.7	0.099	1.85	18.7	78	6.6	164.6

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT BP055768

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

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NSI

CLIENT REFERENCE No: RS-487 RECEIVED : 28 JAN 2000

No. SAMPLES : 130 REPORTED : 14 FEB 2000

MAIN SAMPLE TYPE : DRILL CUTTINGS

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.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055768

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-487 000-005	10		<0.001			
RS-487 005-010	8		<0.001			
RS-487 010-015	<5		<0.001			
RS-487 015-020	<5		<0.001			
RS-487 020-025	<5		<0.001			
RS-487 025-030	10		<0.001			
RS-487 030-035	14		<0.001			
RS-487 035-040	11		<0.001			
RS-487 040-045	70		0.002			
RS-487 045-050	23		<0.001			
RS-487 050-055	20		<0.001			
RS-487 055-060	8		<0.001			
RS-487 060-065	<5		<0.001			
RS-487 065-070	<5		<0.001			
RS-487 070-075	<5		<0.001			
RS-487 075-080	<5		<0.001			
RS-487 080-085	<5		<0.001			
RS-487 085-090	<5	<5	<0.001	<0.001		
RS-487 090-095	<5		<0.001			
RS-487 095-100	<5		<0.001			
RS-487 100-105	<5		<0.001			
RS-487 105-110	<5		<0.001			
RS-487 110-115	<5		<0.001			
RS-487 115-120	<5		<0.001			
RS-487 120-125	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055768

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-487 125-130	<5		<0.001			
RS-487 130-135	<5		<0.001			
RS-487 135-140	<5		<0.001			
RS-487 140-145	<5		<0.001			
RS-487 145-150	<5	<5	<0.001	<0.001		
RS-487 150-155	<5		<0.001			
RS-487 155-160	<5		<0.001			
RS-487 160-165	<5		<0.001			
RS-487 165-170	<5		<0.001			
RS-487 170-175	<5		<0.001			
RS-487 175-180	<5		<0.001			
RS-487 180-185	<5		<0.001			
RS-487 185-190	<5		<0.001			
RS-487 190-195	<5		<0.001			
RS-487 195-200	<5		<0.001			
RS-487 200-205	<5		<0.001			
RS-487 205-210	<5		<0.001			
RS-487 210-215	<5		<0.001			
RS-487 215-220	<5	<5	<0.001	<0.001		
RS-487 220-225	7		<0.001			
RS-487 225-230	8		<0.001			
RS-487 230-235	11		<0.001			
RS-487 235-240	6		<0.001			
RS-487 240-245	7		<0.001			
RS-487 245-250	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055768

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-487 250-255	<5		<0.001			
RS-487 255-260	5		<0.001			
RS-487 260-265	5		<0.001			
RS-487 265-270	<5		<0.001			
RS-487 270-275	9		<0.001			
RS-487 275-280	<5		<0.001			
RS-487 280-285	<5		<0.001			
RS-487 285-290	<5		<0.001			
RS-487 290-295	<5		<0.001			
RS-487 295-300	<5		<0.001			
RS-487 300-305	7		<0.001			
RS-487 305-310	<5		<0.001			
RS-487 310-315	<5		<0.001			
RS-487 315-320	<5		<0.001			
RS-487 320-325	<5		<0.001			
RS-487 325-330	12		<0.001			
RS-487 330-335	5		<0.001			
RS-487 335-340	6		<0.001			
RS-487 340-345	<5		<0.001			
RS-487 345-350	<5		<0.001			
RS-487 350-355	<5		<0.001			
RS-487 355-360	<5	<5	<0.001	<0.001		
RS-487 360-365	<5		<0.001			
RS-487 365-370	<5		<0.001			
RS-487 370-375	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055768

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REFERENCE : RS-487

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-487 375-380	<5		<0.001			
RS-487 380-385	12		<0.001			
RS-487 385-390	42		0.001			
RS-487 390-395	21		<0.001			
RS-487 395-400	<5		<0.001			
RS-487 400-405	<5		<0.001			
RS-487 405-410	6		<0.001			
RS-487 410-415	<5		<0.001			
RS-487 415-420	<5		<0.001			
RS-487 420-425	<5	<5	<0.001	<0.001		
RS-487 425-430	6		<0.001			
RS-487 430-435	<5		<0.001			
RS-487 435-440	<5		<0.001			
RS-487 440-445	<5		<0.001			
RS-487 445-450	<5		<0.001			
RS-487 450-455	<5		<0.001			
RS-487 455-460	<5		<0.001			
RS-487 460-465	<5		<0.001			
RS-487 465-470	<5		<0.001			
RS-487 470-475	<5		<0.001			
RS-487 475-480	<5		<0.001			
RS-487 480-485	<5	6	<0.001	<0.001		
RS-487 485-490	8		<0.001			
RS-487 490-495	5		<0.001			
RS-487 495-500	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055768

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-487 500-505	<5		<0.001			
RS-487 505-510	<5		<0.001			
RS-487 510-515	<5		<0.001			
RS-487 515-520	<5	<5	<0.001	<0.001		
RS-487 520-525	<5		<0.001			
RS-487 525-530	<5		<0.001			
RS-487 530-535	<5		<0.001			
RS-487 535-540	<5		<0.001			
RS-487 540-545	<5		<0.001			
RS-487 545-550	<5		<0.001			
RS-487 550-555	<5		<0.001			
RS-487 555-560	<5		<0.001			
RS-487 560-565	<5		<0.001			
RS-487 565-570	<5		<0.001			
RS-487 570-575	<5		<0.001			
RS-487 575-580	<5		<0.001			
RS-487 580-585	<5		<0.001			
RS-487 585-590	<5		<0.001			
RS-487 590-595	<5	<5	<0.001	<0.001		
RS-487 595-600	<5		<0.001			
RS-487 600-605	5		<0.001			
RS-487 605-610	<5		<0.001			
RS-487 610-615	<5		<0.001			
RS-487 615-620	<5		<0.001			
RS-487 620-625	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055768

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-487

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-487 625-630	<5		<0.001			
RS-487 630-635	<5		<0.001			
RS-487 635-640	<5		<0.001			
RS-487 640-645	<5		<0.001			
75394	1796		0.052			