60000713

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-486-99
AUTHOR	K. Allen; D. Schoorl
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; Hecla Mining Co. Mother Lode Project
COMMODITY If not obvious	gold; silver
NOTES	Geochemistry; receipts; assay; total depth 665'; directional survey 32p.

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-486

60000713

6000 0713

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055767

American Assay Laboratories

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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CLIENT REFERENCE No: RS-486 RECEIVED : 28 JAN 2000

No. SAMPLES : 133 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 SP055767

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-486

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-486 000-005	<5		<0.001		<0.5	<0.02
RS-486 005-010	<5		<0.001		<0.5	<0.02
RS-486 010-015	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 015-020	<5		<0.001		<0.5	<0.02
RS-486 020-025	<5		<0.001		<0.5	<0.02
RS-486 025-030	<5		<0.001		<0.5	<0.02
RS-486 030-035	<5		<0.001		<0.5	<0.02
RS-486 035-040	<5		<0.001		<0.5	<0.02
RS-486 040-045	<5		<0.001		<0.5	<0.02
RS-486 045-050	<5		<0.001		<0.5	<0.02
RS-486 050-055	<5		<0.001		<0.5	<0.02
RS-486 055-060	<5		<0.001		<0.5	<0.02
RS-486 060-065	<5		<0.001		<0.5	<0.02
RS-486 065-070	<5		<0.001		<0.5	<0.02
RS-486 070-075	<5		<0.001		<0.5	<0.02
RS-486 075-080	<5		<0.001		<0.5	<0.02
RS-486 080-085	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 085-090	<5		<0.001		<0.5	<0.02
RS-486 090-095	<5		<0.001		<0.5	<0.02
RS-486 095-100	<5		<0.001		<0.5	<0.02
RS-486 100-105	<5		<0.001		<0.5	<0.02
RS-486 105-110	<5		<0.001		<0.5	<0.02
RS-486 110-115	<5		<0.001		<0.5	<0.02
RS-486 115-120	<5		<0.001		<0.5	<0.02
RS-486 120-125	<5		<0.001		<0.5	<0.02

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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-486 125-130	<5		<0.001		<0.5	<0.02
RS-486 130-135	<5		<0.001		<0.5	<0.02
RS-486 135-140	<5		<0.001		<0.5	<0.02
RS-486 140-145	<5		<0.001		<0.5	<0.02
RS-486 145-150	<5		<0.001		<0.5	<0.02
RS-486 150-155	<5		<0.001		<0.5	<0.02
RS-486 155-160	<5		<0.001		<0.5	<0.02
RS-486 160-165	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 165-170	<5		<0.001		<0.5	<0.02
RS-486 170-175	<5		<0.001		<0.5	<0.02
RS-486 175-180	<5		<0.001		<0.5	<0.02
RS-486 180-185	<5		<0.001		<0.5	<0.02
RS-486 185-190	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 190-195	<5		<0.001		<0.5	<0.02
RS-486 195-200	<5		<0.001		<0.5	<0.02
RS-486 200-205	<5		<0.001		<0.5	<0.02
RS-486 205-210	<5		<0.001		<0.5	<0.02
RS-486 210-215	<5		<0.001		<0.5	<0.02
RS-486 215-220	<5		<0.001		<0.5	<0.02
RS-486 220-225	<5		<0.001		<0.5	<0.02
RS-486 225-230	<5		<0.001		<0.5	<0.02
RS-486 230-235	<5		<0.001		<0.5	<0.02
RS-486 235-240	<5		<0.001		<0.5	<0.02
RS-486 240-245	<5		<0.001		<0.5	<0.02
RS-486 245-250	<5		<0.001		<0.5	<0.02

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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-486 250-255	<5		<0.001		<0.5	<0.02
RS-486 255-260	<5		<0.001		<0.5	<0.02
RS-486 260-265	<5		<0.001		<0.5	<0.02
RS-486 265-270	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 270-275	<5		<0.001		<0.5	<0.02
RS-486 275-280	<5		<0.001		<0.5	<0.02
RS-486 280-285	<5		<0.001		<0.5	<0.02
RS-486 285-290	<5		<0.001		<0.5	<0.02
RS-486 290-295	<5		<0.001		<0.5	<0.02
RS-486 295-300	<5		<0.001		<0.5	<0.02
RS-486 300-305	<5		<0.001		<0.5	<0.02
RS-486 305-310	<5		<0.001		<0.5	<0.02
RS-486 310-315	<5		<0.001		<0.5	<0.02
RS-486 315-320	<5		<0.001		<0.5	<0.02
RS-486 320-325	<5		<0.001		<0.5	<0.02
RS-486 325-330	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 330-335	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 335-340	<5		<0.001		<0.5	<0.02
RS-486 340-345	<5		<0.001		<0.5	<0.02
RS-486 345-350	<5		<0.001		<0.5	<0.02
RS-486 350-355	<5		<0.001		<0.5	<0.02
RS-486 355-360	<5		<0.001		<0.5	<0.02
RS-486 360-365	<5		<0.001		<0.5	<0.02
RS-486 365-370	<5		<0.001		<0.5	<0.02
RS-486 370-375	<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-486 375-380	<5		<0.001		<0.5	<0.02
RS-486 380-385	<5		<0.001		<0.5	<0.02
RS-486 385-390	<5		<0.001		<0.5	<0.02
RS-486 390-395	<5		<0.001		<0.5	<0.02
RS-486 395-400	<5		<0.001		<0.5	<0.02
RS-486 400-405	<5		<0.001		<0.5	<0.02
RS-486 405-410	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 410-415	<5		<0.001		<0.5	<0.02
RS-486 415-420	<5		<0.001		<0.5	<0.02
RS-486 420-425	<5		<0.001		<0.5	<0.02
RS-486 425-430	<5		<0.001		<0.5	<0.02
RS-486 430-435	<5		<0.001		<0.5	<0.02
RS-486 435-440	<5		<0.001		<0.5	<0.02
RS-486 440-445	<5		<0.001		<0.5	<0.02
RS-486 445-450	<5		<0.001		<0.5	<0.02
RS-486 450-455	<5		<0.001		<0.5	<0.02
RS-486 455-460	<5		<0.001		<0.5	<0.02
RS-486 460-465	<5		<0.001		<0.5	<0.02
RS-486 465-470	<5		<0.001		<0.5	<0.02
RS-486 470-475	<5		<0.001		<0.5	<0.02
RS-486 475-480	<5		<0.001		<0.5	<0.02
RS-486 480-485	<5		<0.001		<0.5	<0.02
RS-486 485-490	<5		<0.001		<0.5	<0.02
RS-486 490-495	<5		<0.001		<0.5	<0.02
RS-486 495-500	<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-486 500-505	<5		<0.001		<0.5	<0.02
RS-486 505-510	<5		<0.001		<0.5	<0.02
RS-486 510-515	<5		<0.001		<0.5	<0.02
RS-486 515-520	<5		<0.001		<0.5	<0.02
RS-486 520-525	<5		<0.001		<0.5	<0.02
RS-486 525-530	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 530-535	<5		<0.001		<0.5	<0.02
RS-486 535-540	<5		<0.001		<0.5	<0.02
RS-486 540-545	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 545-550	<5		<0.001		<0.5	<0.02
RS-486 550-555	<5		<0.001		<0.5	<0.02
RS-486 555-560			SAMPLE NOT RECEIVED			
RS-486 560-565	<5		<0.001		<0.5	<0.02
RS-486 565-570	<5		<0.001		<0.5	<0.02
RS-486 570-575	<5		<0.001		<0.5	<0.02
RS-486 575-580	<5		<0.001		<0.5	<0.02
RS-486 580-585	<5		<0.001		<0.5	<0.02
RS-486 585-590	<5		<0.001		<0.5	<0.02
RS-486 590-595	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 595-600	<5		<0.001		<0.5	<0.02
RS-486 600-605	<5		<0.001		<0.5	<0.02
RS-486 605-610	<5		<0.001		<0.5	<0.02
RS-486 610-615	<5		<0.001		<0.5	<0.02
RS-486 615-620	<5		<0.001		<0.5	<0.02
RS-486 620-625	<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-486 625-630	<5		<0.001		<0.5	<0.02
RS-486 630-635	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 635-640	<5		<0.001		<0.5	<0.02
RS-486 640-645	<5		<0.001		<0.5	<0.02
RS-486 645-650	<5		<0.001		<0.5	<0.02
RS-486 650-655	<5		<0.001		<0.5	<0.02
RS-486 655-660	<5		<0.001		<0.5	<0.02
RS-486 660-665	<5		<0.001		<0.5	<0.02
75367	2202		0.064		ISF	ISF

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HECLA MINING COMPANY

COPIES TO : KURT ALLEN

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CLIENT REFERENCE No: RS-486 RECEIVED : 28 JAN 2000

No. SAMPLES : 133 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

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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-486 000-005	<5		<0.001		<0.5	<0.02
RS-486 005-010	<5		<0.001		<0.5	<0.02
RS-486 010-015	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 015-020	<5		<0.001		<0.5	<0.02
RS-486 020-025	<5		<0.001		<0.5	<0.02
RS-486 025-030	<5		<0.001		<0.5	<0.02
RS-486 030-035	<5		<0.001		<0.5	<0.02
RS-486 035-040	<5		<0.001		<0.5	<0.02
RS-486 040-045	<5		<0.001		<0.5	<0.02
RS-486 045-050	<5		<0.001		<0.5	<0.02
RS-486 050-055	<5		<0.001		<0.5	<0.02
RS-486 055-060	<5		<0.001		<0.5	<0.02
RS-486 060-065	<5		<0.001		<0.5	<0.02
RS-486 065-070	<5		<0.001		<0.5	<0.02
RS-486 070-075	<5		<0.001		<0.5	<0.02
RS-486 075-080	<5		<0.001		<0.5	<0.02
RS-486 080-085	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 085-090	<5		<0.001		<0.5	<0.02
RS-486 090-095	<5		<0.001		<0.5	<0.02
RS-486 095-100	<5		<0.001		<0.5	<0.02
RS-486 100-105	<5		<0.001		<0.5	<0.02
RS-486 105-110	<5		<0.001		<0.5	<0.02
RS-486 110-115	<5		<0.001		<0.5	<0.02
RS-486 115-120	<5		<0.001		<0.5	<0.02
RS-486 120-125	<5		<0.001		<0.5	<0.02

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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-486 125-130	<5		<0.001		<0.5	<0.02
RS-486 130-135	<5		<0.001		<0.5	<0.02
RS-486 135-140	<5		<0.001		<0.5	<0.02
RS-486 140-145	<5		<0.001		<0.5	<0.02
RS-486 145-150	<5		<0.001		<0.5	<0.02
RS-486 150-155	<5		<0.001		<0.5	<0.02
RS-486 155-160	<5		<0.001		<0.5	<0.02
RS-486 160-165	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 165-170	<5		<0.001		<0.5	<0.02
RS-486 170-175	<5		<0.001		<0.5	<0.02
RS-486 175-180	<5		<0.001		<0.5	<0.02
RS-486 180-185	<5		<0.001		<0.5	<0.02
RS-486 185-190	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 190-195	<5		<0.001		<0.5	<0.02
RS-486 195-200	<5		<0.001		<0.5	<0.02
RS-486 200-205	<5		<0.001		<0.5	<0.02
RS-486 205-210	<5		<0.001		<0.5	<0.02
RS-486 210-215	<5		<0.001		<0.5	<0.02
RS-486 215-220	<5		<0.001		<0.5	<0.02
RS-486 220-225	<5		<0.001		<0.5	<0.02
RS-486 225-230	<5		<0.001		<0.5	<0.02
RS-486 230-235	<5		<0.001		<0.5	<0.02
RS-486 235-240	<5		<0.001		<0.5	<0.02
RS-486 240-245	<5		<0.001		<0.5	<0.02
RS-486 245-250	<5		<0.001		<0.5	<0.02

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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-486 250-255	<5		<0.001		<0.5	<0.02
RS-486 255-260	<5		<0.001		<0.5	<0.02
RS-486 260-265	<5		<0.001		<0.5	<0.02
RS-486 265-270	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 270-275	<5		<0.001		<0.5	<0.02
RS-486 275-280	<5		<0.001		<0.5	<0.02
RS-486 280-285	<5		<0.001		<0.5	<0.02
RS-486 285-290	<5		<0.001		<0.5	<0.02
RS-486 290-295	<5		<0.001		<0.5	<0.02
RS-486 295-300	<5		<0.001		<0.5	<0.02
RS-486 300-305	<5		<0.001		<0.5	<0.02
RS-486 305-310	<5		<0.001		<0.5	<0.02
RS-486 310-315	<5		<0.001		<0.5	<0.02
RS-486 315-320	<5		<0.001		<0.5	<0.02
RS-486 320-325	<5		<0.001		<0.5	<0.02
RS-486 325-330	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 330-335	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 335-340	<5		<0.001		<0.5	<0.02
RS-486 340-345	<5		<0.001		<0.5	<0.02
RS-486 345-350	<5		<0.001		<0.5	<0.02
RS-486 350-355	<5		<0.001		<0.5	<0.02
RS-486 355-360	<5		<0.001		<0.5	<0.02
RS-486 360-365	<5		<0.001		<0.5	<0.02
RS-486 365-370	<5		<0.001		<0.5	<0.02
RS-486 370-375	<5		<0.001		<0.5	<0.02

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REFERENCE : RS-486

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-486 375-380	<5		<0.001		<0.5	<0.02
RS-486 380-385	<5		<0.001		<0.5	<0.02
RS-486 385-390	<5		<0.001		<0.5	<0.02
RS-486 390-395	<5		<0.001		<0.5	<0.02
RS-486 395-400	<5		<0.001		<0.5	<0.02
RS-486 400-405	<5		<0.001		<0.5	<0.02
RS-486 405-410	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 410-415	<5		<0.001		<0.5	<0.02
RS-486 415-420	<5		<0.001		<0.5	<0.02
RS-486 420-425	<5		<0.001		<0.5	<0.02
RS-486 425-430	<5		<0.001		<0.5	<0.02
RS-486 430-435	<5		<0.001		<0.5	<0.02
RS-486 435-440	<5		<0.001		<0.5	<0.02
RS-486 440-445	<5		<0.001		<0.5	<0.02
RS-486 445-450	<5		<0.001		<0.5	<0.02
RS-486 450-455	<5		<0.001		<0.5	<0.02
RS-486 455-460	<5		<0.001		<0.5	<0.02
RS-486 460-465	<5		<0.001		<0.5	<0.02
RS-486 465-470	<5		<0.001		<0.5	<0.02
RS-486 470-475	<5		<0.001		<0.5	<0.02
RS-486 475-480	<5		<0.001		<0.5	<0.02
RS-486 480-485	<5		<0.001		<0.5	<0.02
RS-486 485-490	<5		<0.001		<0.5	<0.02
RS-486 490-495	<5		<0.001		<0.5	<0.02
RS-486 495-500	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055767

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-486

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-486 500-505	<5		<0.001		<0.5	<0.02
RS-486 505-510	<5		<0.001		<0.5	<0.02
RS-486 510-515	<5		<0.001		<0.5	<0.02
RS-486 515-520	<5		<0.001		<0.5	<0.02
RS-486 520-525	<5		<0.001		<0.5	<0.02
RS-486 525-530	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 530-535	<5		<0.001		<0.5	<0.02
RS-486 535-540	<5		<0.001		<0.5	<0.02
RS-486 540-545	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 545-550	<5		<0.001		<0.5	<0.02
RS-486 550-555	<5		<0.001		<0.5	<0.02
RS-486 555-560			SAMPLE NOT RECEIVED			
RS-486 560-565	<5		<0.001		<0.5	<0.02
RS-486 565-570	<5		<0.001		<0.5	<0.02
RS-486 570-575	<5		<0.001		<0.5	<0.02
RS-486 575-580	<5		<0.001		<0.5	<0.02
RS-486 580-585	<5		<0.001		<0.5	<0.02
RS-486 585-590	<5		<0.001		<0.5	<0.02
RS-486 590-595	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 595-600	<5		<0.001		<0.5	<0.02
RS-486 600-605	<5		<0.001		<0.5	<0.02
RS-486 605-610	<5		<0.001		<0.5	<0.02
RS-486 610-615	<5		<0.001		<0.5	<0.02
RS-486 615-620	<5		<0.001		<0.5	<0.02
RS-486 620-625	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP055767

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
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REFERENCE : RS-486

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-486 625-630	<5		<0.001		<0.5	<0.02
RS-486 630-635	<5	<5	<0.001	<0.001	<0.5	<0.02
RS-486 635-640	<5		<0.001		<0.5	<0.02
RS-486 640-645	<5		<0.001		<0.5	<0.02
RS-486 645-650	<5		<0.001		<0.5	<0.02
RS-486 650-655	<5		<0.001		<0.5	<0.02
RS-486 655-660	<5		<0.001		<0.5	<0.02
RS-486 660-665	<5		<0.001		<0.5	<0.02
75367	2202		0.064		ISF	ISF

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CLIENT: *HECLA MINING CO.*
CLIENT REF: KURT ALLEN
AAL REF: Sp55767
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-486 000-020	39	0.73	4.4	1.6	12	70.8	0.17	0.76	0.11	1.6	6.1	9.48	1.84	3	16	0.24	40	0.12	403	1.85	0.088	4.4	0.014	38.75	0.05	0.5	0.3	42.6	< .02	12.5	0.013	0.08	1.9	14	0.9	53.4
RS-486 020-040	29	0.57	4.2	0.8	5	45.6	0.16	0.89	0.06	0.8	3.1	4.95	1.64	2.7	< 5	0.23	39.2	0.04	655	1.25	0.046	2.2	0.009	22.89	0.01	0.62	0.2	72.1	< .02	14.4	0.004	0.06	0.7	4	0.8	33.8
RS-486 040-060	32	0.54	2.3	0.4	4	45	0.13	0.73	0.07	0.8	4	6.47	1.77	2.5	7	0.22	40.6	0.04	380	1.29	0.04	3.3	0.012	18.65	< .01	0.45	0.3	90.6	0.02	14.6	0.005	0.06	1.7	10	0.9	26.4
RS-486 060-080	32	0.56	3	0.4	3	59.5	0.14	1.15	0.09	0.7	4.1	5.87	1.8	2.5	9	0.23	47.8	0.03	580	1.27	0.04	2.9	0.014	21.51	< .01	1.03	0.3	126.4	< .02	15.2	0.004	0.06	1.5	6	0.8	29.5
RS-486 080-100	80	1.37	5.7	0.8	4	108.6	0.12	0.66	0.13	1.2	3.4	7.37	1.9	5.3	35	0.52	28.4	0.06	442	1.68	0.064	2.5	0.016	23.26	0.04	1.6	0.3	150.7	0.02	11.5	0.003	0.14	2.1	9	0.5	41.2
RS-486 100-120	101	0.8	2.2	0.5	1	63.4	0.12	0.68	0.14	0.8	3.3	6.86	1.69	3.2	22	0.34	33.3	0.04	504	1.52	0.043	2.4	0.013	22.07	0.03	1.05	0.2	153.5	< .02	12.3	0.004	0.09	2.4	8	0.6	27.3
RS-486 120-140	82	0.88	3.1	1.1	1	118.3	0.13	1.03	0.22	1	3.2	5.74	1.78	3.2	36	0.37	35.6	0.04	724	1.1	0.049	2.3	0.015	23.16	0.06	1.65	0.2	194.9	0.02	11.8	0.004	0.09	1.6	6	0.6	31.8
RS-486 140-160	139	1.15	7.5	0.8	1	143.3	0.16	0.64	0.12	1.4	2.6	5.48	1.73	4.2	91	0.42	39.7	0.04	305	1.81	0.056	2	0.018	25.48	0.45	2.26	0.4	196.6	< .02	12.5	< .001	0.12	0.7	3	0.2	52.7
RS-486 160-180	184	1.22	10.6	2.2	< 1	97.5	0.19	0.49	0.27	1.4	2.9	5.94	1.93	4.6	91	0.4	46.1	0.04	255	3.92	0.056	2.3	0.023	27.15	0.52	2.65	0.5	207	< .02	13.7	< .001	0.13	0.8	4	< .2	60.8
RS-486 180-200	94	0.86	7	1	< 1	108.8	0.05	0.78	0.28	0.8	2.8	6.22	1.67	3.7	33	0.32	21.2	0.03	621	1.64	0.044	2.5	0.009	20.66	0.2	2.15	0.3	148.1	< .02	9.2	0.001	0.07	1.3	5	0.6	33.9
RS-486 200-220	170	1.3	2.3	0.2	1	79.1	0.13	1.51	0.38	0.9	3.6	8.72	2.37	5.6	14	0.48	26.8	0.05	1270	1.44	0.073	3.1	0.01	35.28	< .01	2.44	0.2	233.9	0.03	13.7	0.004	0.12	3	6	1	43.9
RS-486 220-240	54	1.13	2.7	1	1	116.8	0.04	1.52	0.45	0.8	2.9	2.74	1.87	4.8	6	0.37	24.2	0.05	1181	1.52	0.058	2.2	0.006	30.59	< .01	1.37	0.2	223.6	0.02	12	0.001	0.08	2.3	7	1	39.6
RS-486 240-260	65	1.59	2.6	1.1	< 1	188.6	0.1	1.24	0.39	1.8	3.4	2.97	2.68	5.3	7	0.43	39	0.09	779	0.58	0.067	1.5	0.063	30.82	0.01	0.52	0.2	427.5	0.04	11.8	0.001	0.15	2.7	17	0.4	41.4
RS-486 260-280	66	1.53	2.6	1.4	1	92.2	0.15	1.31	0.34	4.9	4.5	6.89	3.89	6.4	< 5	0.51	35.7	0.15	584	0.51	0.071	2.7	0.128	20.73	< .01	0.59	0.2	363	0.04	9	0.018	0.24	2	24	0.4	47
RS-486 280-300	80	0.77	1	0.8	4	79.5	0.08	1.55	0.31	6.4	6.9	10.08	3.76	4	< 5	0.25	26.5	0.14	1175	1.29	0.062	4.1	0.113	12.2	< .01	0.43	0.3	172.6	< .02	5.9	0.03	0.09	3.3	25	0.7	61.9
RS-486 300-320	110	0.68	1.5	1.2	5	76.4	0.05	1.18	0.33	8.4	8.6	15.03	4.12	3.9	7	0.22	26.4	0.17	1036	1.86	0.064	5.9	0.119	12.29	0.01	0.49	0.3	115.2	< .02	5.7	0.045	0.07	3	28	0.7	79.2
RS-486 320-340	103	1.34	2.5	1	3	417.5	0.07	1.15	0.23	7.1	6.7	12.67	3.89	5.4	8	0.3	29.6	0.29	948	1.32	0.077	4.4	0.121	14.39	0.01	0.37	0.3	245.6	0.02	7.4	0.017	0.19	2.7	25	0.4	63
RS-486 340-360	75	1.8	3	1	2	113.8	0.1	1.32	0.24	9.8	7.7	13.64	3.85	7.7	< 5	0.32	36.4	0.54	1071	0.88	0.088	4.4	0.128	17.48	< .01	0.33	0.3	375.2	0.03	7	0.016	0.26	1.9	28	< .2	95.6
RS-486 360-380	98	0.89	2.1	1.1	5	107.5	0.12	1.62	0.17	9	11.6	21.18	4.54	5.8	5	0.23	27.2	0.32	992	2.42	0.066	7.1	0.112	14.24	< .01	0.65	0.3	105.8	< .02	5.8	0.062	0.09	2.8	31	0.7	88.2
RS-486 380-400	105	1.5	2.6	1.1	2	173.5	0.16	1.27	0.24	7.8	7.5	27.32	3.91	6.1	< 5	0.34	31.9	0.39	792	1.21	0.08	4.1	0.115	118.37	0.02	0.68	0.2	271.8	0.03	6.1	0.02	0.23	2.3	23	< .2	141.5
RS-486 400-420	79	1.9	3.7	1.1	1	118	0.12	1.43	0.14	7.7	5.3	15.38	3.58	6.9	6	0.43	38.5	0.41	700	0.47	0.097	2.7	0.129	65.7	0.02	0.65	0.2	409.8	0.03	6.6	0.008	0.37	1.8	21	< .2	120.3
RS-486 420-440	118	1.06	1.7	0.4	1	119.1	0.08	1.85	0.22	7.7	6.6	12.29	4.03	5.6	< 5	0.32	28.4	0.29	965	1.18	0.062	4	0.115	25.39	0.01	1.36	0.2	195	0.02	4.5	0.041	0.13	3.3	24	< .2	94.9
RS-486 440-460	115	0.92	2.5	0.5	1	131.5	0.1	1.55	0.19	6.7	8.1	18.03	4.62	5	5	0.31	26.9	0.18	776	1.83	0.067	5.9	0.109	18.61	< .01	1.04	0.3	155.2	< .02	6.5	0.048	0.11	2.4	23	0.5	69.3
RS-486 460-480	115	1.12	2.2	2.3	2	123.8	0.07	1.71	0.18	7	6.9	13.92	4.23	6	20	0.42	22.4	0.17	1055	1.48	0.101	4.1	0.112	23.18	< .01	1.1	0.3	142.4	< .02	5.1	0.071	0.16	2.9	31	0.4	81.9
RS-486 480-500	76	0.77	1.9	< .2	1	75.8	0.04	1.29	0.14	6.3	5.6	13.24	3.82	4.2	< 5	0.26	24	0.19	620	1.39	0.061	3.2	0.102	23.51	< .01	1.33	0.3	135.7	< .02	6.1	0.049	0.09	3	24	0.4	72.5
RS-486 500-520	89	0.73	1.8	0.8	1	71.4	0.02	1.3	0.16	6.1	5.2	10.91	3.73	3.8	28	0.24	25.1	0.16	654	1.06	0.058	3.2	0.101	12.62	0.01	2.01	0.3	152.1	< .02	8.2	0.058	0.06	3.1	23	0.7	69.8
RS-486 520-540	117	0.85	2.6	1.1	< 1	96	0.14	1.64	0.29	5.7	3.6	9.43	3.79	3.9	19	0.27	29.3	0.15	705	0.83	0.064	2.5	0.106	23.68	0.01	1.32	0.3	201.1	0.03	8.5	0.054	0.07	2.5	18	0.6	67.6
RS-486 540-560	165	1.31	2.3	1.3	< 1	97.6	0.28	1.96	0.13	6.8	3.4	8.94	4.12	5.9	< 5	0.31	36.5	0.24	732	0.25	0.088	2.3	0.119	32.3	0.01	1.1	0.2	302.9	0.03	7.5	0.029	0.06	2.6	12	0.4	75.2
RS-486 560-580	73	0.73	3.6	2.6	1	73.1	0.08	2.1	0.24	5.7	4	10.1	3.73	4.5	< 5	0.25	29.5	0.17	990	0.68	0.058	2.8	0.111	16.59	< .01	0.69	0.3	140.4	< .02	6.7	0.06	0.05	1.9	17	0.6	72
RS-486 580-600	86	0.58	4.1	2.1	2	75	0.21	1.81	0.15	5.2	3.7	7.27	3.56	4.2	< 5	0.25	28.6	0.13	728	0.48	0.052	2.2	0.112	27.13	0.01	0.66	0.3	105.3	< .02	7.7	0.07	0.04	1.2	14	0.6	58.1
RS-486 600-620	79	1.01	3.6	1.6	5	107.2	0.23	1.39	0.26	6.4	7.5	16.3	4.82	6.4	5	0.45	25.7	0.14	800	1.85	0.138	5	0.107	20.2	< .01	1.01	0.3	94.9	< .02	7.3	0.074	0.11	2.4	30	0.6	88.1
RS-486 620-640	41	1.23	2.6	0.6	5	137.8	0.03	1.38	0.19	7.1	7.1	14.9	4.39	7.2	< 5	0.51	24.2	0.25	1024	1.81	0.233	4.5	0.1	15.01	< .01	0.61	0.3	107.1	< .02	7.3	0.067	0.13	4.3	30	0.6	83.9
RS-486 640-665	51	1.06	3.9	0.4	4	122.7	0.03	0.99	0.18	7.6	6.9	13.15	4.24	6.8	24	0.46	24.3	0.19	839	1.89	0.19	3.7	0.106	15.75	< .01	0.59	0.3	89.3	< .02	7.5	0.073	0.13	4.3	31	0.5	85.3
75367	33645	0.97	72.4	1612.5	< 1	94.5	0.66	0.89	0.24	3.1	22.9	12.73	2.02	3	243	0.4	19.2	0.09	253	8.87	0.03	12.3	0.059	21.77	1.84	10.17	18.1	82.4	0.02	3.4	< .001	0.31	0.7	3	0.4	77.4
STANDARD DS2	228	1.71	57.5	188.5	2	145.2	11.18	0.51	10.78	12.2	153.7	120.71	3.08	6.6	237	0.17	17.4	0.57	780	13.71	0.032	33.4	0.086	33.21	0.01	9.42	2.2	26.8	1.81	3.8	0.092	1.86	19	72	6.8	152

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CLIENT:	*HECLA MINING CO.*
CLIENT REF:	KURT ALLEN
AAL REF:	Sp55767
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-486 000-020	39	0.73	4.4	1.6	12	70.8	0.17	0.76	0.11	1.6	6.1	9.48	1.84	3	16	0.24	40	0.12	403	1.85	0.088	4.4	0.014	38.75	0.05	0.5	0.3	42.6	< .02	12.5	0.013	0.08	1.9	14	0.9	53.4
RS-486 020-040	29	0.57	4.2	0.8	5	45.6	0.16	0.89	0.06	0.8	3.1	4.95	1.64	2.7	< 5	0.23	39.2	0.04	655	1.25	0.046	2.2	0.009	22.89	0.01	0.62	0.2	72.1	< .02	14.4	0.004	0.06	0.7	4	0.8	33.8
RS-486 040-060	32	0.54	2.3	0.4	4	45	0.13	0.73	0.07	0.8	4	6.47	1.77	2.5	7	0.22	40.6	0.04	380	1.29	0.04	3.3	0.012	18.65	< .01	0.45	0.3	90.6	0.02	14.6	0.005	0.06	1.7	10	0.9	26.4
RS-486 060-080	32	0.56	3	0.4	3	59.5	0.14	1.15	0.09	0.7	4.1	5.87	1.8	2.5	9	0.23	47.8	0.03	580	1.27	0.04	2.9	0.014	21.51	< .01	1.03	0.3	126.4	< .02	15.2	0.004	0.06	1.5	6	0.8	29.5
RS-486 080-100	80	1.37	5.7	0.8	4	108.6	0.12	0.66	0.13	1.2	3.4	7.37	1.9	5.3	35	0.52	28.4	0.06	442	1.68	0.064	2.5	0.016	23.26	0.04	1.6	0.3	150.7	0.02	11.5	0.003	0.14	2.1	9	0.5	41.2
RS-486 100-120	101	0.8	2.2	0.5	1	63.4	0.12	0.68	0.14	0.8	3.3	6.86	1.69	3.2	22	0.34	33.3	0.04	504	1.52	0.043	2.4	0.013	22.07	0.03	1.05	0.2	153.5	< .02	12.3	0.004	0.09	2.4	8	0.6	27.3
RS-486 120-140	82	0.88	3.1	1.1	1	118.3	0.13	1.03	0.22	1	3.2	5.74	1.78	3.2	36	0.37	35.6	0.04	724	1.1	0.049	2.3	0.015	23.16	0.06	1.65	0.2	194.9	0.02	11.8	0.004	0.09	1.6	6	0.6	31.8
RS-486 140-160	139	1.15	7.5	0.8	1	143.3	0.16	0.64	0.12	1.4	2.6	5.48	1.73	4.2	91	0.42	39.7	0.04	305	1.81	0.056	2	0.018	25.48	0.45	2.26	0.4	196.6	< .02	12.5	< .001	0.12	0.7	3	0.2	52.7
RS-486 160-180	184	1.22	10.6	2.2	< 1	97.5	0.19	0.49	0.27	1.4	2.9	5.94	1.93	4.6	91	0.4	46.1	0.04	255	3.92	0.056	2.3	0.023	27.15	0.52	2.65	0.5	207	< .02	13.7	< .001	0.13	0.8	4	< .2	60.8
RS-486 180-200	94	0.86	7	1	< 1	108.8	0.05	0.78	0.28	0.8	2.8	6.22	1.67	3.7	33	0.32	21.2	0.03	621	1.64	0.044	2.5	0.009	20.66	0.2	2.15	0.3	148.1	< .02	9.2	0.001	0.07	1.3	5	0.6	33.9
RS-486 200-220	170	1.3	2.3	0.2	1	79.1	0.13	1.51	0.38	0.9	3.6	8.72	2.37	5.6	14	0.48	26.8	0.05	1270	1.44	0.073	3.1	0.01	35.28	< .01	2.44	0.2	233.9	0.03	13.7	0.004	0.12	3	6	1	43.9
RS-486 220-240	54	1.13	2.7	1	1	116.8	0.04	1.52	0.45	0.8	2.9	2.74	1.87	4.8	6	0.37	24.2	0.05	1181	1.52	0.058	2.2	0.006	30.59	< .01	1.37	0.2	223.6	0.02	12	0.001	0.08	2.3	7	1	39.6
RS-486 240-260	65	1.59	2.6	1.1	< 1	188.6	0.1	1.24	0.39	1.8	3.4	2.97	2.68	5.3	7	0.43	39	0.09	779	0.58	0.067	1.5	0.063	30.82	0.01	0.52	0.2	427.5	0.04	11.8	0.001	0.15	2.7	17	0.4	41.4
RS-486 260-280	66	1.53	2.6	1.4	1	92.2	0.15	1.31	0.34	4.9	4.5	6.89	3.89	6.4	< 5	0.51	35.7	0.15	584	0.51	0.071	2.7	0.128	20.73	< .01	0.59	0.2	363	0.04	9	0.018	0.24	2	24	0.4	47
RS-486 280-300	80	0.77	1	0.8	4	79.5	0.08	1.55	0.31	6.4	6.9	10.08	3.76	4	< 5	0.25	26.5	0.14	1175	1.29	0.062	4.1	0.113	12.2	< .01	0.43	0.3	172.6	< .02	5.9	0.03	0.09	3.3	25	0.7	61.9
RS-486 300-320	110	0.68	1.5	1.2	5	76.4	0.05	1.18	0.33	8.4	8.6	15.03	4.12	3.9	7	0.22	26.4	0.17	1036	1.86	0.064	5.9	0.119	12.29	0.01	0.49	0.3	115.2	< .02	5.7	0.045	0.07	3	28	0.7	79.2
RS-486 320-340	103	1.34	2.5	1	3	417.5	0.07	1.15	0.23	7.1	6.7	12.67	3.89	5.4	8	0.3	29.6	0.29	948	1.32	0.077	4.4	0.121	14.39	0.01	0.37	0.3	245.6	0.02	7.4	0.017	0.19	2.7	25	0.4	63
RS-486 340-360	75	1.8	3	1	2	113.8	0.1	1.32	0.24	9.8	7.7	13.64	3.85	7.7	< 5	0.32	36.4	0.54	1071	0.88	0.088	4.4	0.128	17.48	< .01	0.33	0.3	375.2	0.03	7	0.016	0.26	1.9	28	< .2	95.6
RS-486 360-380	98	0.89	2.1	1.1	5	107.5	0.12	1.62	0.17	9	11.6	21.18	4.54	5.8	5	0.23	27.2	0.32	992	2.42	0.066	7.1	0.112	14.24	< .01	0.65	0.3	105.8	< .02	5.8	0.062	0.09	2.8	31	0.7	88.2
RS-486 380-400	105	1.5	2.6	1.1	2	173.5	0.16	1.27	0.24	7.8	7.5	27.32	3.91	6.1	< 5	0.34	31.9	0.39	792	1.21	0.08	4.1	0.115	118.37	0.02	0.68	0.2	271.8	0.03	6.1	0.02	0.23	2.3	23	< .2	141.5
RS-486 400-420	79	1.9	3.7	1.1	1	118	0.12	1.43	0.14	7.7	5.3	15.38	3.58	6.9	6	0.43	38.5	0.41	700	0.47	0.097	2.7	0.129	65.7	0.02	0.65	0.2	409.8	0.03	6.6	0.008	0.37	1.8	21	< .2	120.3
RS-486 420-440	118	1.06	1.7	0.4	1	119.1	0.08	1.85	0.22	7.7	6.6	12.29	4.03	5.6	< 5	0.32	28.4	0.29	965	1.18	0.062	4	0.115	25.39	0.01	1.36	0.2	195	0.02	4.5	0.041	0.13	3.3	24	< .2	94.9
RS-486 440-460	115	0.92	2.5	0.5	1	131.5	0.1	1.55	0.19	6.7	8.1	18.03	4.62	5	5	0.31	26.9	0.18	776	1.83	0.067	5.9	0.109	18.61	< .01	1.04	0.3	155.2	< .02	6.5	0.048	0.11	2.4	23	0.5	69.3
RS-486 460-480	115	1.12	2.2	2.3	2	123.8	0.07	1.71	0.18	7	6.9	13.92	4.23	6	20	0.42	22.4	0.17	1055	1.48	0.101	4.1	0.112	23.18	< .01	1.1	0.3	142.4	< .02	5.1	0.071	0.16	2.9	31	0.4	81.9
RS-486 480-500	76	0.77	1.9	< .2	1	75.8	0.04	1.29	0.14	6.3	5.6	13.24	3.82	4.2	< 5	0.26	24	0.19	620	1.39	0.061	3.2	0.102	23.51	< .01	1.33	0.3	135.7	< .02	6.1	0.049	0.09	3	24	0.4	72.5
RS-486 500-520	89	0.73	1.8	0.8	1	71.4	0.02	1.3	0.16	6.1	5.2	10.91	3.73	3.8	28	0.24	25.1	0.16	654	1.06	0.058	3.2	0.101	12.62	0.01	2.01	0.3	152.1	< .02	8.2	0.058	0.06	3.1	23	0.7	69.8
RS-486 520-540	117	0.85	2.6	1.1	< 1	96	0.14	1.64	0.29	5.7	3.6	9.43	3.79	3.9	19	0.27	29.3	0.15	705	0.83	0.064	2.5	0.106	23.68	0.01	1.32	0.3	201.1	0.03	8.5	0.054	0.07	2.5	18	0.6	67.6
RS-486 540-560	165	1.31	2.3	1.3	< 1	97.6	0.28	1.96	0.13	6.8	3.4	8.94	4.12	5.9	< 5	0.31	36.5	0.24	732	0.25	0.088	2.3	0.119	32.3	0.01	1.1	0.2	302.9	0.03	7.5	0.029	0.06	2.6	12	0.4	75.2
RS-486 560-580	73	0.73	3.6	2.6	1	73.1	0.08	2.1	0.24	5.7	4	10.1	3.73	4.5	< 5	0.25	29.5	0.17	990	0.68	0.058	2.8	0.111	16.59	< .01	0.69	0.3	140.4	< .02	6.7	0.06	0.05	1.9	17	0.6	72
RS-486 580-600	86	0.58	4.1	2.1	2	75	0.21	1.81	0.15	5.2	3.7	7.27	3.56	4.2	< 5	0.25	28.6	0.13	728	0.48	0.052	2.2	0.112	27.13	0.01	0.66	0.3	105.3	< .02	7.7	0.07	0.04	1.2	14	0.6	58.1
RS-486 600-620	79	1.01	3.6	1.6	5	107.2	0.23	1.39	0.26	6.4	7.5	16.3	4.82	6.4	5	0.45	25.7	0.14	800	1.85	0.138	5	0.107	20.2	< .01	1.01	0.3	94.9	< .02	7.3	0.074	0.11	2.4	30	0.6	88.1
RS-486 620-640	41	1.23	2.6	0.6	5	137.8	0.03	1.38	0.19	7.1	7.1	14.9	4.39	7.2	< 5	0.51	24.2	0.25	1024	1.81	0.233	4.5	0.1	15.01	< .01	0.61	0.3	107.1	< .02	7.3	0.067	0.13	4.3	30	0.6	83.9
RS-486 640-665	51	1.06	3.9	0.4	4	122.7	0.03	0.99	0.18	7.6	6.9	13.15	4.24	6.8	24	0.46	24.3	0.19	839	1.89	0.19	3.7	0.106	15.75	< .01	0.59	0.3	89.3	< .02	7.5	0.073	0.13	4.3	31	0.5	85.3
75367	33645	0.97	72.4	1612.5	< 1	94.5	0.66	0.89	0.24	3.1	22.9	12.73	2.02	3	243	0.4	19.2	0.09	253	8.87	0.03	12.3	0.059	21.77	1.84	10.17	18.1	82.4	0.02	3.4	< .001	0.31	0.7	3	0.4	77.4
STANDARD DS2	228	1.71	57.5	188.5	2	145.2	11.18	0.51	10.78	12.2	153.7	120.71	3.08	6.6	237	0.17	17.4	0.57	780	13.71	0.032	33.4	0.086	33.21	0.01	9.42	2.2	26.8	1.81	3.8	0.092	1.86	19	72	6.8	152

American Assay Laboratories

INVOICE

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 0055767-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-486	MOTHER LODE	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
133	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
132	DRY/JAW CRUSH ENTIRE SAMPLE	4.60	607.20
15	EXCESSIVE WETNESS	2.00	30.00
132	SPLITTING CHARGE	3.00	396.00
132	RING/PUCK MILL	2.00	264.00
133	Au (1 A.T. FIRE ASSAY)	8.00	1,064.00
132	HYDROCHLORIC/NITRIC DIGESTION	2.00	264.00
132	Ag ANALYSES	1.00	132.00
132	COMPOSITE CHARGE	1.25	165.00
34	MULTI-ELEMENT ICP PACKAGE	13.75	467.50

86-2510-477
KDA

NET INVOICE:	3,389.70
LESS DISCOUNT:	1,186.40
FREIGHT:	.00
INVOICE TOTAL:	2,203.30

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (775) 356-0806
FAX: (775) 356-1413

CLIENT: *HECLA MINING CO.*
CLIENT REF: KURT ALLEN
AAL REF: Sp65767
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-486 000-020	39	0.73	4.4	1.6	12	70.8	0.17	0.76	0.11	1.6	6.1	9.48	1.84	3	16	0.24	40	0.12	403	1.86	0.088	4.4	0.014	38.75	0.05	0.5	0.3	42.6	< .02	12.5	0.013	0.08	1.9	14	0.9	53.4
RS-486 020-040	29	0.67	4.2	0.8	5	45.6	0.16	0.89	0.06	0.8	3.1	4.95	1.64	2.7	< 5	0.23	39.2	0.04	665	1.26	0.046	2.2	0.009	22.89	0.01	0.52	0.2	72.1	< .02	14.4	0.004	0.06	0.7	4	0.8	33.8
RS-486 040-060	32	0.54	2.3	0.4	4	45	0.13	0.73	0.07	0.8	4	6.47	1.77	2.5	7	0.22	40.6	0.04	380	1.29	0.04	3.3	0.012	18.65	< .01	0.45	0.3	90.6	0.02	14.6	0.005	0.06	1.7	10	0.9	26.4
RS-486 060-080	32	0.56	3	0.4	3	59.6	0.14	1.15	0.09	0.7	4.1	5.87	1.8	2.5	9	0.23	47.8	0.03	580	1.27	0.04	2.9	0.014	21.51	< .01	1.03	0.3	128.4	< .02	15.2	0.004	0.06	1.5	6	0.8	29.5
RS-486 080-100	80	1.37	6.7	0.8	4	109.6	0.12	0.86	0.13	1.2	3.4	7.37	1.9	5.3	35	0.52	28.4	0.06	462	1.68	0.064	2.5	0.016	23.26	0.04	1.8	0.3	150.7	0.02	11.5	0.003	0.14	2.1	9	0.5	41.2
RS-486 100-120	101	0.8	2.2	0.5	1	63.4	0.12	0.88	0.14	0.8	3.3	6.86	1.69	3.2	22	0.34	33.3	0.04	504	1.62	0.043	2.4	0.013	22.07	0.03	1.06	0.2	163.6	< .02	12.3	0.004	0.09	2.4	8	0.6	27.3
RS-486 120-140	82	0.88	3.1	1.1	1	118.3	0.13	1.03	0.22	1	3.2	5.74	1.78	3.2	38	0.37	35.6	0.04	724	1.1	0.049	2.3	0.015	23.16	0.06	1.86	0.2	194.9	0.02	11.8	0.004	0.09	1.6	6	0.6	31.8
RS-486 140-160	139	1.15	7.5	0.8	1	143.3	0.16	0.64	0.12	1.4	2.6	6.48	1.73	4.2	91	0.42	39.7	0.04	305	1.81	0.056	2	0.018	25.48	0.45	2.26	0.4	196.6	< .02	12.5	< .001	0.12	0.7	3	0.2	52.7
RS-486 160-180	184	1.22	10.6	2.2	< 1	97.5	0.19	0.49	0.27	1.4	2.9	6.94	1.93	4.6	91	0.4	46.1	0.04	255	3.92	0.056	2.3	0.023	27.15	0.52	2.85	0.5	207	< .02	13.7	< .001	0.13	0.8	4	< .2	60.8
RS-486 180-200	94	0.86	7	1	< 1	198.8	0.05	0.78	0.28	0.8	2.8	6.22	1.67	3.7	33	0.32	21.2	0.03	621	1.64	0.044	2.5	0.009	20.66	0.2	2.15	0.3	148.1	< .02	9.2	0.001	0.07	1.3	5	0.6	33.9
RS-486 200-220	170	1.3	2.3	0.2	1	79.1	0.13	1.51	0.38	0.9	3.6	8.72	2.37	5.6	14	0.48	26.8	0.05	1270	1.44	0.073	3.1	0.01	36.28	< .01	2.44	0.2	233.9	0.03	13.7	0.004	0.12	3	6	1	43.9
RS-486 220-240	54	1.13	2.7	1	1	116.8	0.04	1.52	0.45	0.8	2.9	2.74	1.87	4.8	6	0.37	24.2	0.05	1181	1.52	0.068	2.2	0.006	30.59	< .01	1.37	0.2	223.6	0.02	12	0.001	0.08	2.3	7	1	39.6
RS-486 240-260	65	1.59	2.6	1.1	< 1	188.6	0.1	1.24	0.39	1.8	3.4	2.97	2.68	5.3	7	0.43	39	0.09	779	0.68	0.067	1.5	0.063	30.82	0.01	0.52	0.2	427.5	0.04	11.8	0.001	0.15	2.7	17	0.4	41.4
RS-486 260-280	66	1.53	2.6	1.4	1	92.2	0.15	1.31	0.34	4.9	4.5	6.89	3.89	6.4	< 5	0.51	36.7	0.16	584	0.61	0.071	2.7	0.128	28.73	< .01	0.59	0.2	363	0.04	9	0.018	0.24	2	24	0.4	47
RS-486 280-300	80	0.77	1	0.8	4	79.5	0.08	1.56	0.31	6.4	6.9	10.08	3.76	4	< 5	0.25	26.5	0.14	1175	1.29	0.062	4.1	0.113	12.2	< .01	0.43	0.3	172.6	< .02	5.9	0.03	0.09	3.3	26	0.7	61.9
RS-486 300-320	110	0.68	1.5	1.2	5	76.4	0.05	1.18	0.33	8.4	8.6	16.03	4.12	3.9	7	0.22	26.4	0.17	1036	1.86	0.064	5.9	0.119	12.29	0.01	0.49	0.3	115.2	< .02	5.7	0.045	0.07	3	28	0.7	79.2
RS-486 320-340	103	1.34	2.5	1	3	417.5	0.07	1.16	0.23	7.1	6.7	12.67	3.89	5.4	8	0.3	29.6	0.29	948	1.32	0.077	4.4	0.121	14.39	0.01	0.37	0.3	245.6	0.02	7.4	0.017	0.19	2.7	25	0.4	63
RS-486 340-360	75	1.8	3	1	2	113.8	0.1	1.32	0.24	9.8	7.7	13.64	3.85	7.7	< 5	0.32	36.4	0.54	1071	0.88	0.088	4.4	0.128	17.48	< .01	0.33	0.3	375.2	0.03	7	0.016	0.26	1.9	28	< .2	95.6
RS-486 360-380	98	0.89	2.1	1.1	5	107.5	0.12	1.62	0.17	9	11.6	21.16	4.54	5.8	6	0.23	27.2	0.32	992	2.42	0.066	7.1	0.112	14.24	< .01	0.66	0.3	105.8	< .02	5.8	0.062	0.09	2.8	31	0.7	88.2
RS-486 380-400	106	1.5	2.6	1.1	2	173.5	0.16	1.27	0.24	7.8	7.5	27.32	3.91	6.1	< 5	0.34	31.9	0.39	792	1.21	0.08	4.1	0.115	118.37	0.02	0.68	0.2	271.8	0.03	6.1	0.02	0.23	2.3	23	< .2	141.5
RS-486 400-420	79	1.9	3.7	1.1	1	118	0.12	1.43	0.14	7.7	5.3	15.38	3.58	6.9	8	0.43	38.5	0.41	700	0.47	0.097	2.7	0.129	65.7	0.02	0.65	0.2	409.8	0.03	6.6	0.008	0.37	1.8	21	< .2	120.3
RS-486 420-440	118	1.06	1.7	0.4	1	119.1	0.08	1.85	0.22	7.7	6.6	12.29	4.03	5.6	< 5	0.32	28.4	0.29	965	1.18	0.062	4	0.115	26.39	0.01	1.36	0.2	196	0.02	4.5	0.041	0.13	3.3	24	< .2	94.9
RS-486 440-460	116	0.92	2.5	0.5	1	131.5	0.1	1.66	0.19	6.7	8.1	18.03	4.62	5	6	0.31	26.9	0.18	776	1.83	0.067	5.9	0.109	18.61	< .01	1.04	0.3	156.2	< .02	6.5	0.048	0.11	2.4	23	0.5	69.3
RS-486 460-480	116	1.12	2.2	2.3	2	123.8	0.07	1.71	0.18	7	6.9	13.92	4.23	8	20	0.42	22.4	0.17	1055	1.48	0.101	4.1	0.112	23.18	< .01	1.1	0.3	142.4	< .02	5.1	0.071	0.16	2.9	31	0.4	81.9
RS-486 480-500	76	0.77	1.9	< .2	1	75.8	0.04	1.29	0.14	6.3	5.6	13.24	3.82	4.2	< 5	0.26	24	0.19	620	1.39	0.061	3.2	0.102	23.51	< .01	1.33	0.3	136.7	< .02	6.1	0.049	0.09	3	24	0.4	72.5
RS-486 500-520	89	0.73	1.8	0.8	1	71.4	0.02	1.3	0.16	6.1	5.2	10.91	3.73	3.8	28	0.24	25.1	0.16	654	1.06	0.058	3.2	0.101	12.62	0.01	2.01	0.3	162.1	< .02	8.2	0.058	0.06	3.1	23	0.7	69.8
RS-486 520-540	117	0.85	2.6	1.1	< 1	96	0.14	1.64	0.29	5.7	3.6	9.43	3.79	3.9	19	0.27	29.3	0.16	705	0.83	0.064	2.5	0.106	23.68	0.01	1.32	0.3	201.1	0.03	8.5	0.054	0.07	2.6	18	0.6	67.6
RS-486 540-560	165	1.31	2.3	1.3	< 1	97.6	0.28	1.96	0.13	6.8	3.4	8.94	4.12	5.9	< 5	0.31	36.5	0.24	732	0.26	0.088	2.3	0.119	32.3	0.01	1.1	0.2	302.9	0.03	7.5	0.029	0.06	2.6	12	0.4	75.2
RS-486 560-580	73	0.73	3.6	2.6	1	73.1	0.08	2.1	0.24	6.7	4	10.1	3.73	4.6	< 5	0.25	29.5	0.17	990	0.68	0.058	2.8	0.111	16.59	< .01	0.69	0.3	140.4	< .02	6.7	0.06	0.05	1.9	17	0.6	72
RS-486 580-600	86	0.58	4.1	2.1	2	75	0.21	1.81	0.15	5.2	3.7	7.27	3.56	4.2	< 5	0.25	28.6	0.13	728	0.48	0.052	2.2	0.112	27.13	0.01	0.66	0.3	106.3	< .02	7.7	0.07	0.04	1.2	14	0.6	58.1
RS-486 600-620	79	1.01	3.6	1.6	5	107.2	0.23	1.39	0.28	6.4	7.6	16.3	4.82	6.4	5	0.46	25.7	0.14	880	1.85	0.138	5	0.107	20.2	< .01	1.01	0.3	94.9	< .02	7.3	0.074	0.11	2.4	30	0.6	88.1
RS-486 620-640	41	1.23	2.6	0.6	5	137.8	0.03	1.38	0.19	7.1	7.1	14.9	4.38	7.2	< 5	0.51	24.2	0.25	1024	1.81	0.233	4.5	0.1	16.01	< .01	0.61	0.3	107.1	< .02	7.3	0.067	0.13	4.3	30	0.6	83.9
RS-486 640-665	51	1.06	3.9	0.4	4	122.7	0.03	0.99	0.18	7.6	6.9	13.16	4.24	6.8	24	0.46	24.3	0.18	839	1.89	0.19	3.7	0.106	16.75	< .01	0.59	0.3	89.3	< .02	7.6	0.073	0.13	4.3	31	0.6	85.3
75367	33645	0.97	72.4	1612.5	< 1	94.5	0.66	0.89	0.24	3.1	22.9	12.73	2.02	3	243	0.4	19.2	0.09	253	8.87	0.03	12.3	0.069	21.77	1.84	10.17	18.1	82.4	0.02	3.4	< .001	0.31	0.7	3	0.4	77.4
STANDARD DS2	228	1.71	57.5	188.5	2	145.2	11.18	0.51	10.78	12.2	153.7	120.71	3.08	6.6	237	0.17	17.4	0.57	780	13.71	0.032	33.4	0.086	33.21	0.01	9.42	2.2	26.8	1.81	3.8	0.092	1.86	19	72	6.8	162

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055767

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

HECLA MINING COMPANY

COPIES TO : KURT ALLEN
:
:
:

NSI

CLIENT REFERENCE No: RS-486 RECEIVED : 28 JAN 2000

No. SAMPLES : 133 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.

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7753561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055767

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-486

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-486 000-005	<5		<0.001			
RS-486 005-010	<5		<0.001			
RS-486 010-015	<5	<5	<0.001	<0.001		
RS-486 015-020	<5		<0.001			
RS-486 020-025	<5		<0.001			
RS-486 025-030	<5		<0.001			
RS-486 030-035	<5		<0.001			
RS-486 035-040	<5		<0.001			
RS-486 040-045	<5		<0.001			
RS-486 045-050	<5		<0.001			
RS-486 050-055	<5		<0.001			
RS-486 055-060	<5		<0.001			
RS-486 060-065	<5		<0.001			
RS-486 065-070	<5		<0.001			
RS-486 070-075	<5		<0.001			
RS-486 075-080	<5		<0.001			
RS-486 080-085	<5	<5	<0.001	<0.001		
RS-486 085-090	<5		<0.001			
RS-486 090-095	<5		<0.001			
RS-486 095-100	<5		<0.001			
RS-486 100-105	<5		<0.001			
RS-486 105-110	<5		<0.001			
RS-486 110-115	<5		<0.001			
RS-486 115-120	<5		<0.001			
RS-486 120-125	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT 6P055767

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-486

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-486 125-130	<5		<0.001			
RS-486 130-135	<5		<0.001			
RS-486 135-140	<5		<0.001			
RS-486 140-145	<5		<0.001			
RS-486 145-150	<5		<0.001			
RS-486 150-155	<5		<0.001			
RS-486 155-160	<5		<0.001			
RS-486 160-165	<5	<5	<0.001	<0.001		
RS-486 165-170	<5		<0.001			
RS-486 170-175	<5		<0.001			
RS-486 175-180	<5		<0.001			
RS-486 180-185	<5		<0.001			
RS-486 185-190	<5	<5	<0.001	<0.001		
RS-486 190-195	<5		<0.001			
RS-486 195-200	<5		<0.001			
RS-486 200-205	<5		<0.001			
RS-486 205-210	<5		<0.001			
RS-486 210-215	<5		<0.001			
RS-486 215-220	<5		<0.001			
RS-486 220-225	<5		<0.001			
RS-486 225-230	<5		<0.001			
RS-486 230-235	<5		<0.001			
RS-486 235-240	<5		<0.001			
RS-486 240-245	<5		<0.001			
RS-486 245-250	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055767

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-486

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-486 250-255	<5		<0.001			
RS-486 255-260	<5		<0.001			
RS-486 260-265	<5		<0.001			
RS-486 265-270	<5	<5	<0.001	<0.001		
RS-486 270-275	<5		<0.001			
RS-486 275-280	<5		<0.001			
RS-486 280-285	<5		<0.001			
RS-486 285-290	<5		<0.001			
RS-486 290-295	<5		<0.001			
RS-486 295-300	<5		<0.001			
RS-486 300-305	<5		<0.001			
RS-486 305-310	<5		<0.001			
RS-486 310-315	<5		<0.001			
RS-486 315-320	<5		<0.001			
RS-486 320-325	<5		<0.001			
RS-486 325-330	<5	<5	<0.001	<0.001		
RS-486 330-335	<5	<5	<0.001	<0.001		
RS-486 335-340	<5		<0.001			
RS-486 340-345	<5		<0.001			
RS-486 345-350	<5		<0.001			
RS-486 350-355	<5		<0.001			
RS-486 355-360	<5		<0.001			
RS-486 360-365	<5		<0.001			
RS-486 365-370	<5		<0.001			
RS-486 370-375	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055767

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-486

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-486 375-380	<5		<0.001			
RS-486 380-385	<5		<0.001			
RS-486 385-390	<5		<0.001			
RS-486 390-395	<5		<0.001			
RS-486 395-400	<5		<0.001			
RS-486 400-405	<5		<0.001			
RS-486 405-410	<5	<5	<0.001	<0.001		
RS-486 410-415	<5		<0.001			
RS-486 415-420	<5		<0.001			
RS-486 420-425	<5		<0.001			
RS-486 425-430	<5		<0.001			
RS-486 430-435	<5		<0.001			
RS-486 435-440	<5		<0.001			
RS-486 440-445	<5		<0.001			
RS-486 445-450	<5		<0.001			
RS-486 450-455	<5		<0.001			
RS-486 455-460	<5		<0.001			
RS-486 460-465	<5		<0.001			
RS-486 465-470	<5		<0.001			
RS-486 470-475	<5		<0.001			
RS-486 475-480	<5		<0.001			
RS-486 480-485	<5		<0.001			
RS-486 485-490	<5		<0.001			
RS-486 490-495	<5		<0.001			
RS-486 495-500	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055767

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-486

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-486 500-505	<5		<0.001			
RS-486 505-510	<5		<0.001			
RS-486 510-515	<5		<0.001			
RS-486 515-520	<5		<0.001			
RS-486 520-525	<5		<0.001			
RS-486 525-530	<5	<5	<0.001	<0.001		
RS-486 530-535	<5		<0.001			
RS-486 535-540	<5		<0.001			
RS-486 540-545	<5	<5	<0.001	<0.001		
RS-486 545-550	<5		<0.001			
RS-486 550-555	<5		<0.001			
RS-486 555-560			SAMPLE NOT RECEIVED			
RS-486 560-565	<5		<0.001			
RS-486 565-570	<5		<0.001			
RS-486 570-575	<5		<0.001			
RS-486 575-580	<5		<0.001			
RS-486 580-585	<5		<0.001			
RS-486 585-590	<5		<0.001			
RS-486 590-595	<5	<5	<0.001	<0.001		
RS-486 595-600	<5		<0.001			
RS-486 600-605	<5		<0.001			
RS-486 605-610	<5		<0.001			
RS-486 610-615	<5		<0.001			
RS-486 615-620	<5		<0.001			
RS-486 620-625	<5		<0.001			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP055767

CLIENT : HECLA MINING COMPANY
PROJECT : MOTHER LODE
REFERENCE : RS-486

REPORTED : 14 FEB 2000

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-486 625-630	<5		<0.001			
RS-486 630-635	<5	<5	<0.001	<0.001		
RS-486 635-640	<5		<0.001			
RS-486 640-645	<5		<0.001			
RS-486 645-650	<5		<0.001			
RS-486 650-655	<5		<0.001			
RS-486 655-660	<5		<0.001			
RS-486 660-665	<5		<0.001			
75367	2202		0.064			

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WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* HECLA MINING COMPANY *
****

JOB NUMBER: 29-0588-311

WELL NAME: RS-486 / VS 000.00

LOCATION: ROSEBUD

SURVEY DATE: 01/22/2000

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: TRUE NORTH

TIE-ON COORDINATES AT: 0 M.D.
TAKEN FROM: COLLAR

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 090.00
WATER CONTACT= 286'

****
****** DEPTH MEASURED IN FEET *******
****

COMMENTS: **** EKLUND ****
** DON SCHOORL **

PROJECTED F/645' T/700'.

****
****
*** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
**
**
** **********
** COMPANY REPRESENTATIVE **
****
****

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0588-311 WELL NAME: RS-486 / VS 000.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION	TEMP. DEG F
0.0	0.00	0.00	0.000	-89.11	236.76	0.00 N	0.00 E	0.00		0.00	AT 000.00	
50.0	49.99	-1.00	0.550	-88.28	243.30	0.55 S	1.00 W	1.68	0.84	1.14	AT 241.07	046.87
100.0	99.94	-2.79	1.753	-86.75	232.36	1.75 S	2.79 W	3.19	1.59	3.29	AT 237.84	048.08
150.0	149.83	-5.11	3.958	-85.87	221.95	3.96 S	5.11 W	2.21	1.10	6.47	AT 232.26	049.68
200.0	199.71	-7.47	6.572	-86.05	222.22	6.57 S	7.47 W	0.36	0.18	9.95	AT 228.68	050.85
250.0	249.59	-9.90	9.101	-85.91	225.34	9.10 S	9.90 W	0.52	0.26	13.45	AT 227.41	051.66
300.0	299.44	-12.95	11.440	-85.22	238.57	11.44 S	12.95 W	2.46	1.23	17.28	AT 228.53	061.52
350.0	349.25	-16.86	13.382	-84.73	248.13	13.38 S	16.86 W	1.94	0.97	21.52	AT 231.55	062.80
400.0	399.05	-21.09	14.724	-85.04	256.98	14.72 S	21.09 W	1.69	0.85	25.72	AT 235.08	063.46
450.0	448.88	-25.12	15.425	-85.56	263.68	15.42 S	25.12 W	1.51	0.76	29.48	AT 238.45	064.01
500.0	498.75	-28.70	15.535	-86.20	273.56	15.53 S	28.70 W	1.91	0.95	32.63	AT 241.57	064.37
550.0	548.65	-31.93	15.320	-86.38	274.05	15.32 S	31.93 W	0.37	0.18	35.41	AT 244.37	064.77
600.0	598.55	-35.03	15.040	-86.47	276.28	15.04 S	35.03 W	0.33	0.17	38.12	AT 246.76	065.39
650.0	648.46	-37.99	14.500	-86.61	284.56	14.50 S	37.99 W	1.04	0.52	40.67	AT 249.11	066.43
700.0	698.37	-40.86	13.757	-86.60	284.52	13.76 S	40.86 W	0.02	0.01	43.11	AT 251.39	066.51

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*************************************************************
*                         ********                          *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                         ********                          *
*   700.0 FEET EQUALS     43.11    FEET AT  251.39          *
*                         ********                          *
*************************************************************
```

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0588-311

WELL NAME: RS-486 / VS 000.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION	TEMP. DEG F
0.0	0.00	0.00	0.000	-89.11	236.76	0.00 N	0.00 E	0.00		0.00	AT 000.00	
50.0	49.99	-1.00	0.550	-88.28	243.30	0.55 S	1.00 W	1.68	0.84	1.14	AT 241.07	046.87
100.0	99.94	-2.79	1.753	-86.75	232.36	1.75 S	2.79 W	3.19	1.59	3.29	AT 237.84	048.08
150.0	149.83	-5.11	3.958	-85.87	221.95	3.96 S	5.11 W	2.21	1.10	6.47	AT 232.26	049.68
200.0	199.71	-7.47	6.572	-86.05	222.22	6.57 S	7.47 W	0.36	0.18	9.95	AT 228.68	050.85
250.0	249.59	-9.90	9.101	-85.91	225.34	9.10 S	9.90 W	0.52	0.26	13.45	AT 227.41	051.66
300.0	299.44	-12.95	11.440	-85.22	238.57	11.44 S	12.95 W	2.46	1.23	17.28	AT 228.53	061.52
350.0	349.25	-16.86	13.382	-84.73	248.13	13.38 S	16.86 W	1.94	0.97	21.52	AT 231.55	062.80
400.0	399.05	-21.09	14.724	-85.04	256.98	14.72 S	21.09 W	1.69	0.85	25.72	AT 235.08	063.46
450.0	448.88	-25.12	15.425	-85.56	263.68	15.42 S	25.12 W	1.51	0.76	29.48	AT 238.45	064.01
500.0	498.75	-28.70	15.535	-86.20	273.56	15.53 S	28.70 W	1.91	0.95	32.63	AT 241.57	064.37
550.0	548.65	-31.93	15.320	-86.38	274.05	15.32 S	31.93 W	0.37	0.18	35.41	AT 244.37	064.77
600.0	598.55	-35.03	15.040	-86.47	276.28	15.04 S	35.03 W	0.33	0.17	38.12	AT 246.76	065.39
650.0	648.46	-37.99	14.500	-86.61	284.56	14.50 S	37.99 W	1.04	0.52	40.67	AT 249.11	066.43
700.0	698.37	-40.86	13.757	-86.60	284.52	13.76 S	40.86 W	0.02	0.01	43.11	AT 251.39	066.51

```
*************************************************************
*                        ********                           *
*     THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF           *
*                        ********                           *
*   700.0 FEET EQUALS     43.11   FEET AT  251.39           *
*                        ********                           *
*************************************************************
```

WELLBORE NAVIGATION.INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* HECLA MINING COMPANY *
****

JOB NUMBER: 29-0588-311

WELL NAME: RS-486 / VS 000.00

LOCATION: ROSEBUD

SURVEY DATE: 01/22/2000

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: TRUE NORTH

TIE-ON COORDINATES AT: 0 M.D.
TAKEN FROM: COLLAR

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 090.00
WATER CONTACT= 286'

****
****** DEPTH MEASURED IN FEET *******
****

COMMENTS: **** EKLUND ****
** DON SCHOORL **

PROJECTED F/645' T/700'.

****
****
*** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
**
**
** ********** **
** COMPANY REPRESENTATIVE **
****
****

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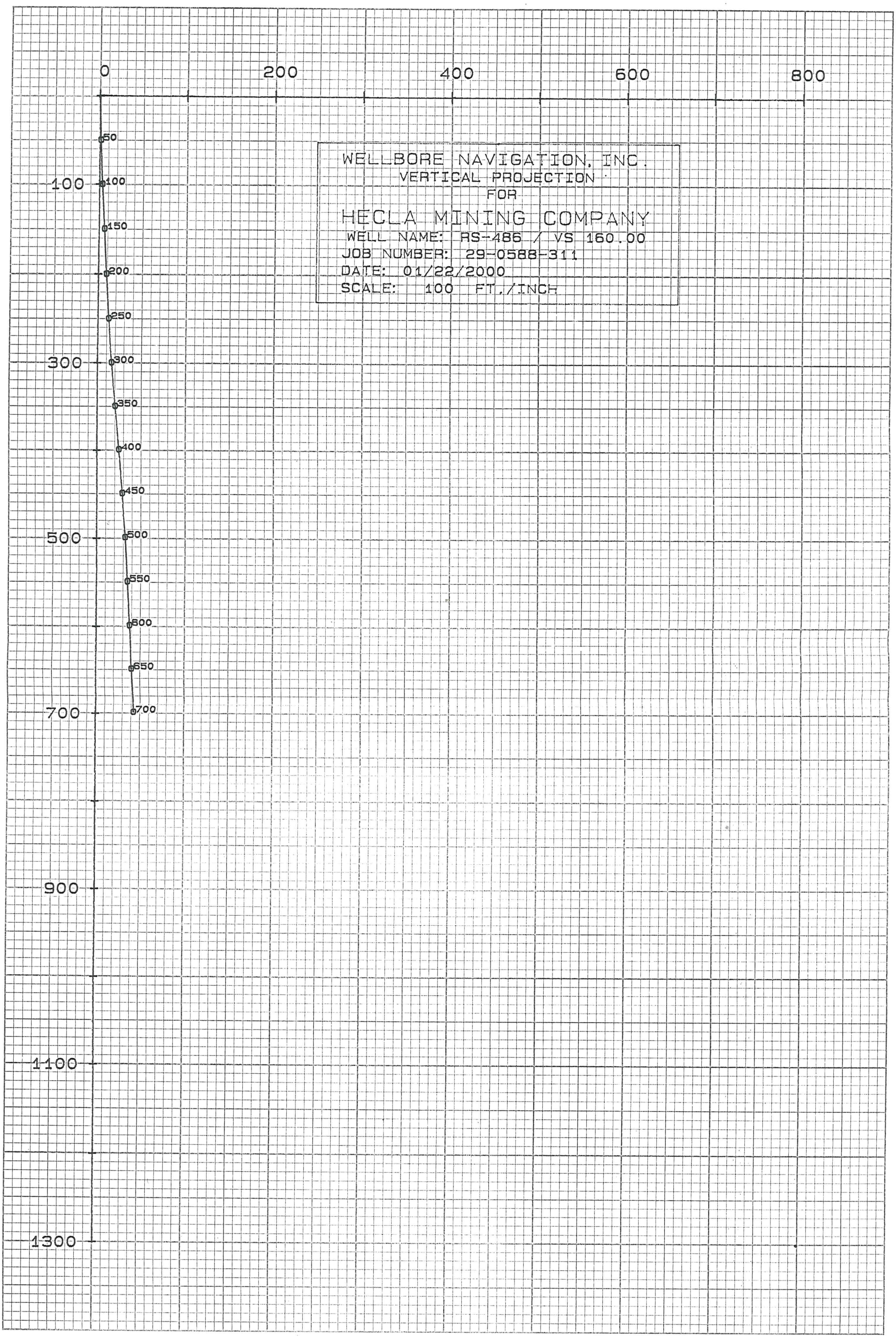

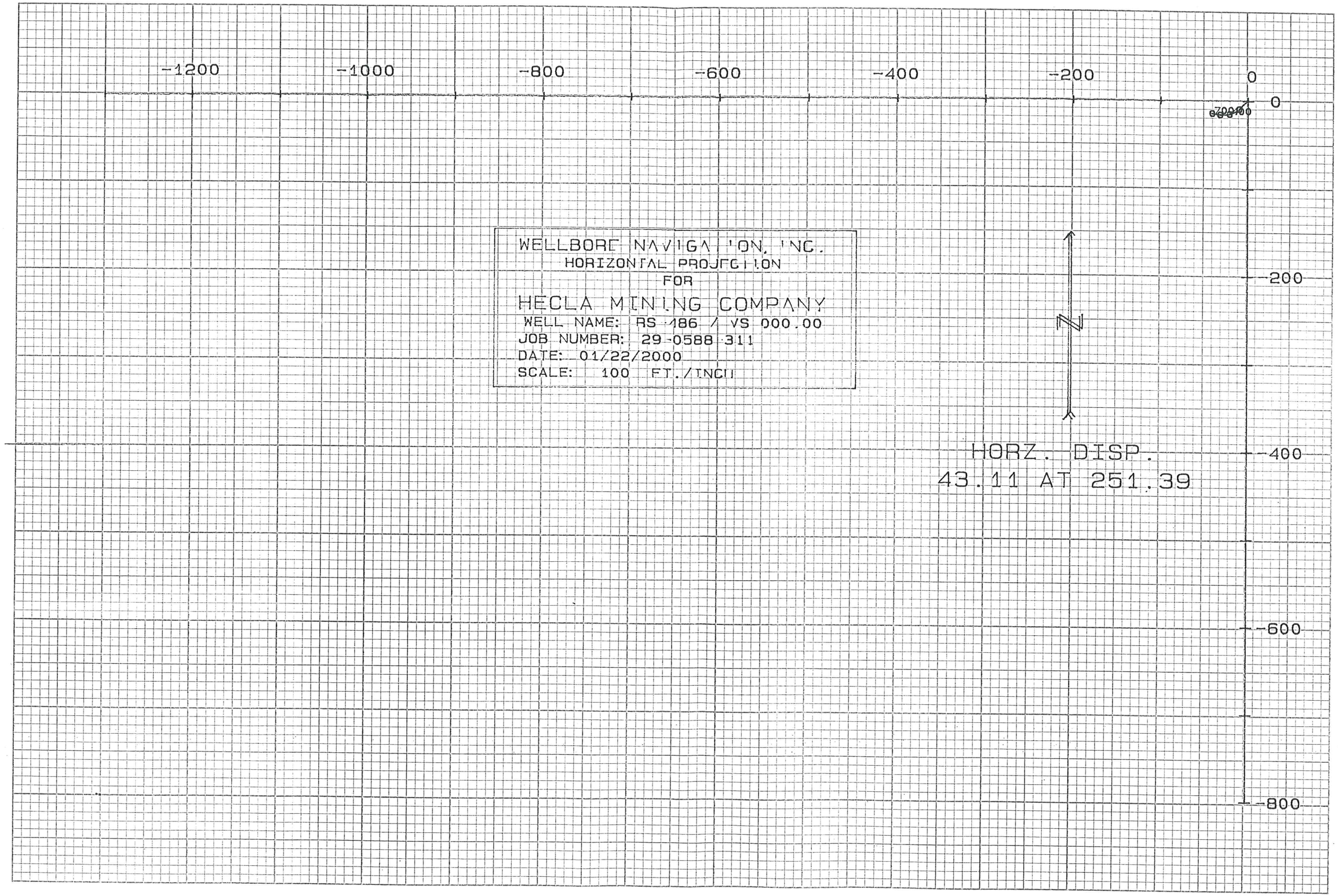

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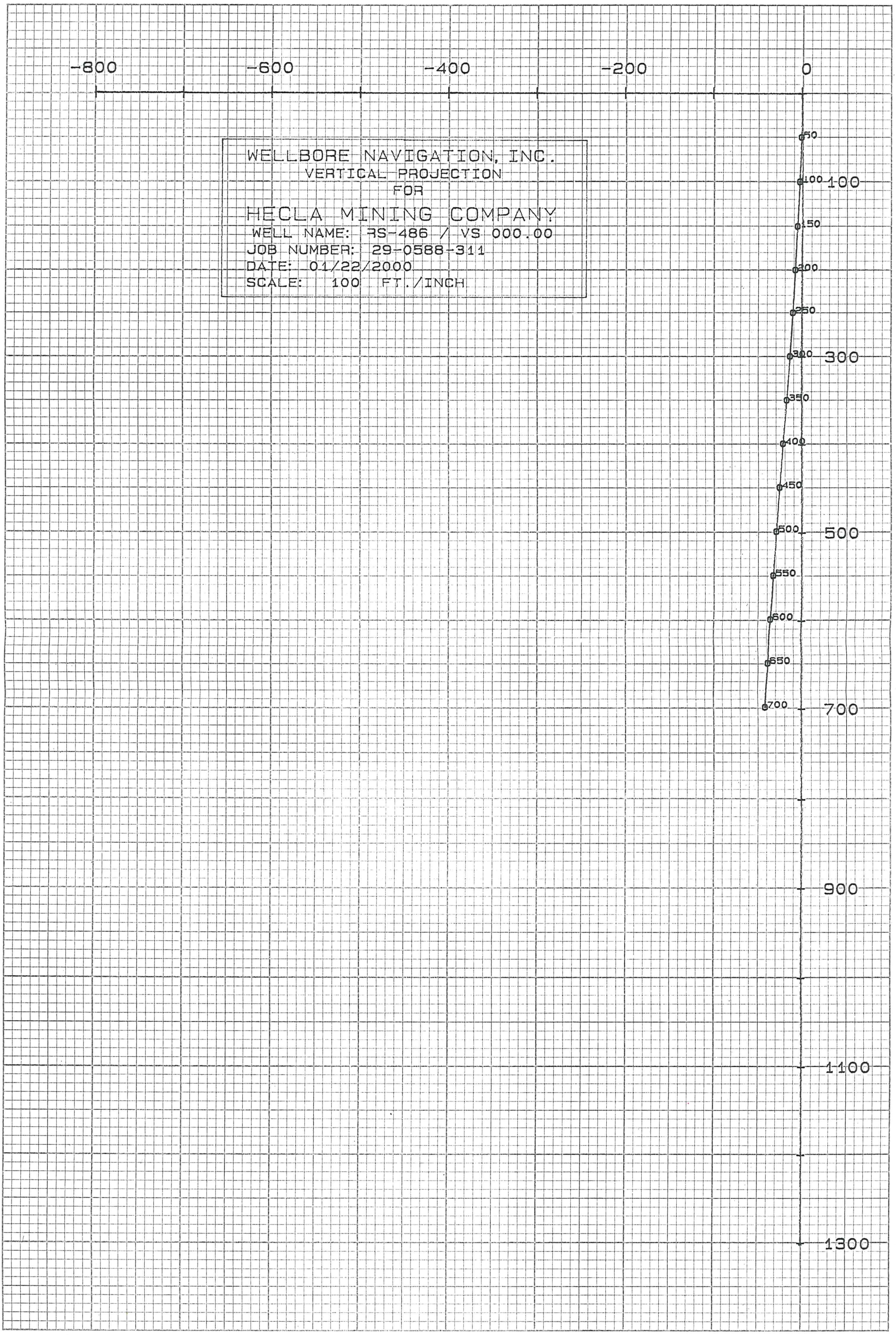
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