6000 0958

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. SL-D395-00
AUTHOR	K. Allen; D. Mackerrow; B. Morris; L. Mackedon
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 Project; Rosebud Mining Co. LLC Hecla Mining Co.
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; [redacted]; total depth 542' receipt; handwritten notes; downhole camera images photographs 66p. 33 down hole camera images

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 5/12/08
Initials Date

DB: mah
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

SLD-395-00

60000955 4010

6000 0955

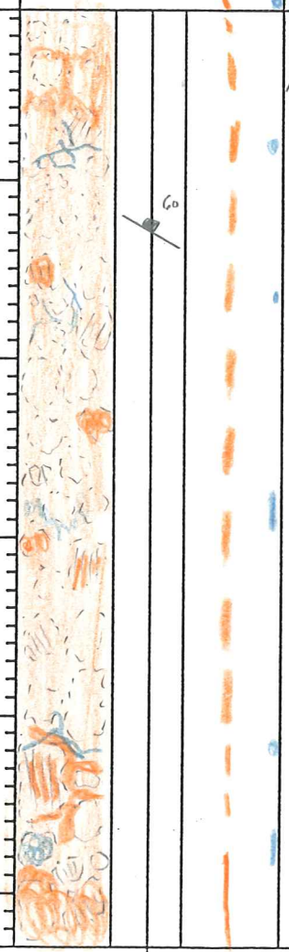
Hecla MINING COMPANY

- quartz, chalcedony, silicification
- faults, fractures
- FeOx
- sulfide
- calcite, carbonate
- argillization, white clays
- propylitization
- potassic alteration
- chlorite, chloritic clays

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	SLD-395-00	LOCATION	
PAGE 1 OF 8		NORTHING	
DATE	4/4/00	EASTING	
LOGGED BY	H. ALLEN / D. Mackerrow	ELEVATION	
SCALE	1" = 10'	AZIMUTH	S77E
TOTAL DEPTH	542'	INCLINATION	-68°

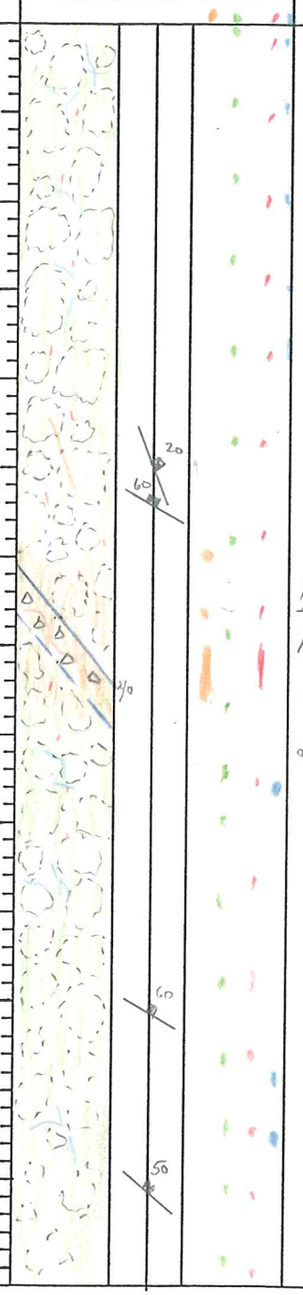
REMARKS

ITH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	Ac
Td		0-262.3 DOZER Auto brecciated hematite stained fine grained rhyolite clast are poorly sorted ranging from 1/16" to cobble size. Clast are planner laminated are massive in texture. Hematite staining is elevated on fracture	10 20 30 40 50		Massive flow with minimal fractures	9' calcite fracture filling. 29 – 30 weak HCl reaction in abx matrix 47 Calcareous bxa clast 47-53 Increased hematite dark red brown							

HOLE NUMBER SUD-395-00 PAGE 2 OF 8

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
Td		0 -252.3 DOZER Auto brecciated rhyolite flow continues Hematitic alteration begins to decrease by 60' Faint propylitic/chloritic alteration removes hematite, core becomes gray with only weak decreasing hematite	60 70 80 90 100 110 120			60 weak propy./chlorite alteration begins 102 First traces of pyrite appear 122 pyrite at 1-2%						

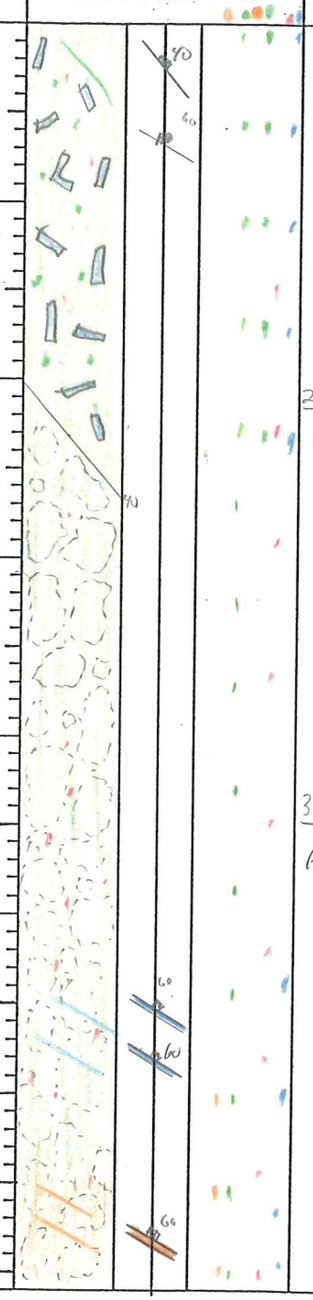
HOLE NUMBER SLD-395-00 PAGE 3 OF 8

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
T1		0-252.3 DOZER Rhyolite flow continues onto brecciated texture Pale green gray from propy/chloritic alteration. Argillization	130 140 150 160 170 180		151.5-156 Fracture/shear zone crush during drilling	Pyrite at the 1-2 % level continues Calcite continues on micro fx 147.5 Traces of white clay on 20° to fx 151-157 Moderate argillization and dark gray clay in fracture Below fracture Pyrite ≤1%	142 147 152 157	147 152 157 162				

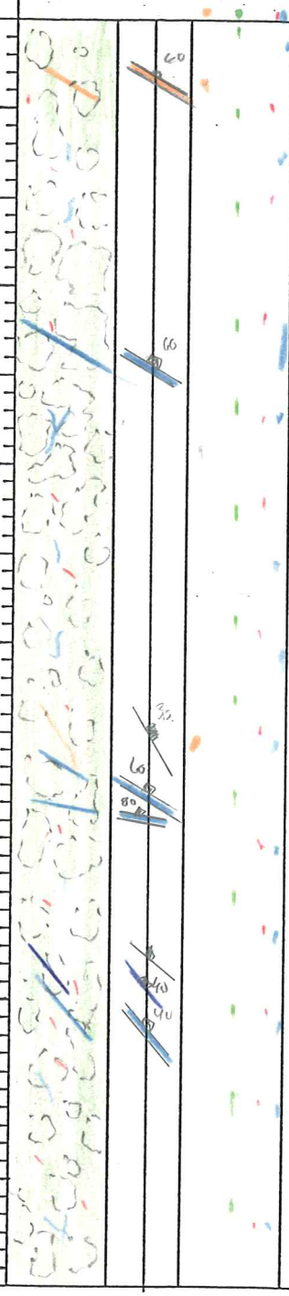
HOLE NUMBER SLD-395-00 PAGE 4 OF 8

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
Td		0-252.3 DOZER Fine grained rhyolite continues. Autobrecciated nature also continues. Disseminated pyrite increases below 225 to 1-2%	200 210 220 230 240 250 260	60 50 60		General propylitic/chloritic alteration continues						
BMP Type		252.3 - 283.2 BMP TYPE PORPHYRY Fine grained pale green gray intrusive matrix with calcite replacing phenocrysts. Next Page			252.3 Intrusive contact is sharp and 60° tca.	252.3-252.8 Argillized contact interval.						

HOLE NUMBER SLD-395-00 PAGE 5 OF 8

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
BMP TYPE		252.3-283.2 BMP TYPE PORPHYRY large phenocryst porphyry Phenos up to ½" long Glomeroporphoritic texture with some of the phenos clusters.	270 280		283.2 Sharp 40° tcn contact	Small dark green chlorite replaced phenos are present 283.2 No particular contact alteration						
Td		283.2-464.4 DOZER Fine grained rhyolite flow with Auto brecciate flow nature	290 300 310 320 330		313 60° tcn Fracture fabric	302-322 small ⅛" agglomerations of pyrite 313 Calcite and clay veins increase 327-332 white clay on fractures						

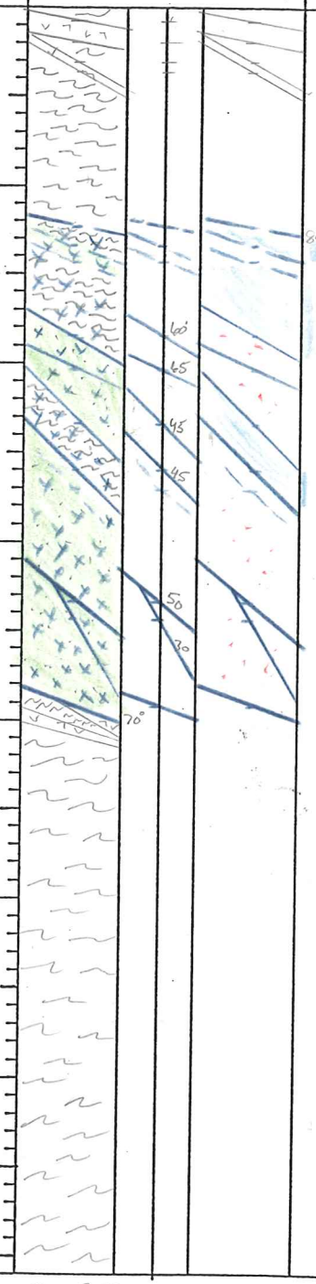
HOLE NUMBER SCD-395-00 PAGE 6 OF 8

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
Td		283.2-464.4 DOZER Fine grained auto brecciated rhyolite flow contact Pale green gray in color Low percent ≤1% pyrite 383 Narrow breccia with dark calcite rich matrix	340 350 360 370 380 390 400									

HOLE NUMBER SCD-395-00 PAGE 7 OF 8

TH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
		-464.4'- Fine-Grained, Autobrecciated, Aphanitic Rhyolitic Flow - Dozer Formation 464.4'-466.4'- ALS phyllites (Brecciated) 466.4-468' - Fg Intrusive 468-470.8' - ALS phyllites 470.8-472' - Fg Intrusives 472-473.2' - ALS phyllites, 473.2-473.7'- Fg Intrusive 473.7-482.4'- ALS phyllites 482.4-509.2'- Major Shear Zone Rock flour supported fault by	410 420 430 440 450 460 470	80° 70° CAVIK. 60 60° 60° 30° 70° 60° 65°	427'- ½" wide grey/black pyritic gouge 440.7-441.2'- pyritic clay gouge supported By - Fault	402-410'- propylitized 410-414.9'- Zone of thin 1/16-1/8" wide marcasite + $CaCO_3$ ± white clay fractures @ 60-70° to Ca. ≈ 4 fracts/foot. Some of the marcasite has been replaced By Pyrite 414.9-422.4 - Same as above w/ less marc/$CaCO_3$ veinlets ≈ down to 1/ft 1/32" wide. 422.4-427'- Light to dark green clay supported Breccia ± silica open space filled w/ white clay + marc + py ± cpy. ± Barite 427-431 - Fault Breccia, gouge supported. contains py ± marc + cpy. 431-435.5'- moderate $CaCO_3$ + marc ± cpy stockwork zone 435.5-440.7 - moderate thin $CaCO_3$ + marc + pyrite 440.7-441.2 - pyritic clay gouge 441.2-444.6 - Mottled Fg Dacite w/ Lime green to yellow green clay coloring. Black? sulfide?. Present as disseminations 444.6-446.5 - Same mottled Dacite as above w/ increased $CaCO_3$ and no yellow green clay 446.5-453.4'- strong $CaCO_3$ stockwork ± marc ± py 453.4-454.3'- Fault By + marc 454.3-457'- marc ± $CaCO_3$ + Pyrite Blobs 457-462 - $CaCO_3$ + marc stockwork Zone 5-6/ft. 462-464.4 - Abundant $CaCO_3$ stockworks minus marc.						
ALS		464.4 - 542 AL.S.										

HOLE NUMBER SLD-395-00 PAGE 8 OF 8

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
		482.4 - 509.2' - MAJOR SHEAR ZONE + pyrite in deeper sections 482.4 - 483.5 - ALS - Rock flour supported Fault Bx 483.5 - 484.6' - Dacite - " " " " " 484.6 - 488.7 - ALS - " " " " " 488.7 - 490.4 - Dacite w/ minor Bx'ion 490.4 - 493.5 - Dacite - Rock flour supported Fault Bx. 493.5 - 496 - ALS - " " " " " 496 - 497 - ALS/Dacite - " " " " " 497 - 503.3' - Dacite - " " " " " 503 - 504.5' - graphitic clay gouge shear zone 504.5 - 509.2' - Dacite Rock flour supported Fault Bx. 509.2 - 509.6 - Fg intrusive 509.6 - 510 - ALS phyllites 510 - 510.4 - Fg Intrusive 510.4 - 542' TD - Calcareous ALS phyllites	480 490 500 510 520 530 540 542 TD			490.4 - 493.5 - pyrite ± cpy + CaCO3						

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-0365-00 DATE: 4-3-00 LOGGED BY: D.G. MacHarrow PAGE 1 OF 10

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
0	7	31	77	28										
7	12	100	100	92										
12	17	100	102	100										
17	22	100	100	86										
22	27	100	98	92										
27	32	100	100	94										
32	37	100	100	100										
37	42	100	100	100										
42	47	100	100	100										
47	52	100	96	88										
52	57	100	102	94										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-0395-00 DATE: 4-3-00 LOGGED BY: D.G. Mackie co. PAGE 2 OF 10

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
57	62	100	100	94										
62	67	100	100	100										
67	72	100	100	100										
72	77	100	102	54										
77	82	100	100	100										
82	87	100	100	76										
87	92	100	98	100										
92	97	100	102	84										
97	102	100	100	100										
102	107	100	100	90										
107	112	100	100	100										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-1395-00 DATE: 4-3-00 LOGGED BY: D.G. Mackenzie PAGE 3 OF 10

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
112	117	100	100	90										
117	122	100	102	92										
122	127	100	100	88										
127	132	100	100	100										
132	137	100	100	100										
137	142	100	100	100										
142	147	92	100	76										
147	152	62	100	20										
152	157	44	88	28										
157	162	86	92	40										
162	167	100	106	84										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-D395-00 DATE: 4/3/00 LOGGED BY: D.G. Machoian PAGE 4 OF 10

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
167	172	100	100	100										
172	177	100	100	100										
177	182	100	100	100										
182	187	100	100	100										
187	192	100	102	100										
192	197	100	92	40										
197	202	88	106	90										
202	207	100	100	74										
207	212	100	98	100										
212	217	60	104	62										
217	222	78	90	66										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-D 395-00 DATE: 4-3-00 LOGGED BY: DG. Mackerron PAGE 5 OF 10

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
222	227	100	100	70										
227	232	100	102	82										
232	237	100	100	82										
237	242	100	98	96										
242	247	100	100	100										
247	252	100	100	100										
252	257	100	100	84										
262	267	100	100	90										
267	272	100	102	94										
272	277	100	102	68										
277	282	100	98	70										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-D395-00 DATE: 4-3-00 LOGGED BY: D.G. MacKenzie PAGE 6 OF 10

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
282	287	100	100	72										
287	292	100	102	68										
292	297	100	104	76										
297	302	100	100	86										
302	307	100	100	84										
307	312	100	100	88										
312	317	100	102	90										
317	322	100	94	100										
322	327	100	100	72										
327	332	100	94	80										
332	337	100	106	100										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SC-D395-00 DATE: 4-3-00 LOGGED BY: D.G.McKerrow PAGE 7 OF 10

DRILL RUN FROM	DRILL RUN TO	SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH DOWNHOLE DEPTH	ROCK STRENGTH POINT LOAD INDEX (psi)	FRACTURE DATA FRACTURE DENSITY/FT.	FRACTURE DATA AVG. ANGLE TO C.A.	FRACTURE DATA ROUGHNESS	FRACTURE DATA INFILL	DENSITY DATA DOWNHOLE DEPTH	DENSITY DATA SAMPLE WEIGHT (g)	DENSITY DATA DISPLACEMENT (cc)	DENSITY DATA DENSITY (g/cc)
337	342	100	100	90										
342	347	100	100	74										
347	352	100	100	100										
352	357	100	102	92										
357	362	100	100	100										
362	367	100	100	100										
367	372	100	96	94										
372	377	100	100	86										
377	382	100	100	100										
382	387	100	100	100										
387	392	100	100	100										
392	397	100	100	100										
397	402	100	100	100										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SLD-385-00 DATE: 3/7/00 LOGGED BY: CAB PAGE 8 OF 10

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
402	407	100	100	92										
407	412	102	102	102										
412	417	98	98	88										
417	422	100	100	96										
422	427	94	98	88										
427	432	102	102	CLAY GOUGE 20										
432	437	98	98	68										
437	442	94	98	52										
442	447	100	100	54										
447	452	100	100	96										
452	457	100	100	70										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SLD-395-00 DATE: 3/7/00 LOGGED BY: KDA PAGE 9 OF 10

DRILL RUN FROM	DRILL RUN TO	SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH DOWNHOLE DEPTH	ROCK STRENGTH POINT LOAD INDEX (psi)	FRACTURE DATA FRACTURE DENSITY/FT.	FRACTURE DATA AVG. ANGLE TO C.A.	FRACTURE DATA ROUGHNESS	FRACTURE DATA INFILL	DENSITY DATA DOWNHOLE DEPTH	DENSITY DATA SAMPLE WEIGHT (g)	DENSITY DATA DISPLACEMENT (cc)	DENSITY DATA DENSITY (g/cc)
457	462	101	101	101										
462	467	100	100	56										
467	472	98	98	54										
472	477	96	100	36										
476	482	94	94	48										
482	487	92	100	SHEAR ZONE 10										
487	492	98	100	SHEAR ZONE 14										
492	497	96	100	SHEAR ZONE Ø	CLAY matrix supported									
497	502	102	102	SHEAR ZONE Ø										
502	507	94	96	SHEAR ZONE Ø										
507	512	102	106	SHEAR ZONE 38										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SLD-395-00 DATE: 3/7/00 LOGGED BY: KOA PAGE 10 OF 10

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
512	517	100	100	52										
517	522	96	96	34										
522	527	100	100	32										
527	532	96	96	36										
532	537	100	100	32										
537	542	100	100	28										
	TD													

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Mendoza, Argentina

Company: HECLA ROSEBUD

Address: PO BOX 261C

City WINNEMUCCA State NV Zip 89446

Telephone Number: (775) 623-6912 Fax Number: (775) 623-6967

Project Name: SL-D395-00 Purchase Order Number:

Date Submitted: 3-15-00 Number of Samples: 34

RESULTS REPORTED IN: ppm [ ] ppb [ ] opt [X]

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
SL-D 395-00	Gold Bags	AU, AG
See ATTACHED		USE ROSEBUD MINE
		DEVELOPMENT PROTOCOL
ROSEBUD PRODUCTION STANDARD		
AT END OF RUN		

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month

[X] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

KURT ALLEN

Results to:

KURT ALLEN

Comments:

x

Depth From	To	Interval	Au	Ag	Sample Number
402	410	8	x	x	1
410	414.9	4.9	x	x	2
414.9	422.9	8	x	x	3
422.9	431	8.1	x	x	4
431	435.5	4.5	x	x	5
435.5	440.7	5.2	x	x	6
440.7	441.2	0.5	x	x	7
441.2	444.6	3.4	x	x	8
444.6	446.5	1.9	x	x	9
446.5	453.4	6.9	x	x	10
453.4	454.3	0.9	x	x	11
454.3	457	2.7	x	x	12
457	462	5	x	x	13
462	464.4	2.4	x	x	14
464.4	466.4	2	x	x	15
466.4	468	1.6	x	x	16
468	470.8	2.8	x	x	17
470.8	472	1.2	x	x	18
472	477	5	x	x	19
477	482.4	5.4	x	x	20
482.4	483.5	1.1	x	x	21
483.5	484.6	1.1	x	x	22
484.6	488.7	4.1	x	x	23
488.7	490.4	1.7	x	x	24
490.4	493.5	3.1	x	x	25
493.5	496	2.5	x	x	26
496	503.3	7.3	x	x	27
503.3	504.5	1.2	x	x	28
504.5	509.2	4.7	x	x	29
509.2	512	2.8	x	x	30
512	521	9	x	x	31
521	527	6	x	x	32
527	537	10	x	x	33
537	542	5	x	x	34

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056909

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

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

:

:

CLIENT REFERENCE No: SLD-395-00 RECEIVED : 7 APR 2000

No. SAMPLES : 5 REPORTED : 14 APR 2000

MAIN SAMPLE TYPE : DRILL CORE

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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

04/14/2000 11:21 7763561413 AMERICAN ASSAY LABS PAGE 01
7753561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056909

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-395-00

REPORTED : 14 APR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
SLD-395-00 142-147	<0.001		
SLD-395-00 147-152	<0.001		
SLD-395-00 152-157	0.001		
SLD-395-00 157-162	<0.001		
89634	0.393		

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 11530
Reno, NV 89510
Telephone
(702) 356-0606
Fax
(702) 356-1413

Tucson Office
2775 E. Ganley
Tucson, AZ 85706
Telephone
(520) 294-8078
Fax
(520) 294-6352

Elko Office
2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Mazatlan Office
Telephone/Fax
011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: ROSEBUD Mining LLC

Address: PO BOX 2610

City Winnemucca State NV Zip 89446

Telephone Number: (775) 623-6912 Fax Number: (775) 623-6967

Project Name: _____ Purchase Order Number: _____

Date Submitted: 4-4-00 Number of Samples: 4

RESULTS REPORTED IN: ppm [ ] ppb [ ] opt [X]

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
SLD 395-00	Core	Au + Ag ROSEBUD mine
142-147, 147-152,		Development Protocol
152-157, 157-162		
One Rosebud Production	Pulp	
Standard @ End of RUN		

COARSE REJECTS (Normally Discarded After 60 Days)

[X] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month

[X] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Kurt Allen

Results to:

Kurt Allen

Comments:

CLIENT FILE COPY

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056626

American Assay Laboratories

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

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

:

:

CLIENT REFERENCE No: SL-D395-00

No. SAMPLES : 35

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 16 MAR 2000

REPORTED : 24 MAR 2000

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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056626

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D395-00

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SL-D395-00 402-410	0.001		0.06
SL-D395-00 410.0-414.9	0.004		0.04
SL-D395-00 414.9-422.9	0.002		<0.02
SL-D395-00 422.9-431.0	0.028	0.030	0.05
SL-D395-00 431.0-435.5	0.009		<0.02
SL-D395-00 435.5-440.7	0.001		0.02
SL-D395-00 440.7-441.2	0.007		0.06
SL-D395-00 441.2-444.6	<0.001		<0.02
SL-D395-00 444.6-446.5	<0.001		<0.02
SL-D395-00 446.5-453.4	0.003		<0.02
SL-D395-00 453.4-454.3	0.013	0.009	0.05
SL-D395-00 454.3-457.0	0.003	0.001	0.02
SL-D395-00 457-462	0.004		0.02
SL-D395-00 462.0-464.4	<0.001		<0.02
SL-D395-00 464.4-466.4	<0.001		0.06
SL-D395-00 466.4-468.0	<0.001		<0.02
SL-D395-00 468.0-470.8	0.001		0.06
SL-D395-00 470.8-472.0	<0.001		<0.02
SL-D395-00 472-477	0.001		0.05
SL-D395-00 477.0-482.4	0.001		0.09
SL-D395-00 482.4-483.5	0.001		0.05
SL-D395-00 483.5-484.6	0.001		0.02
SL-D395-00 484.6-488.7	0.001		0.02
SL-D395-00 488.7-490.4	0.002		0.02
SL-D395-00 490.4-493.5	0.026	0.018	0.06

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056626

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D395-00

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SL-D395-00 493.5-496.0	0.002		0.04
SL-D395-00 496.0-503.3	0.004		0.07
SL-D395-00 503.3-504.5	0.002		0.05
SL-D395-00 504.5-509.2	0.004	0.004	0.03
SL-D395-00 509.2-512.0	0.001		0.04
SL-D395-00 512-521	0.001		0.04
SL-D395-00 521-527	<0.001		0.03
SL-D395-00 527-537	<0.001		0.03
SL-D395-00 537-542	<0.001		0.03
76010	0.379		3.38

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 0056626-IN
INVOICE DATE: 03/23/00

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
SL-D395-00	KURT ALLEN	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
35	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
34	DRY/JAW CRUSH ENTIRE SAMPLE	2.60	88.40
34	COARSE MILLING CHARGE	6.00	204.00
34	ROTARY SPLIT	2.40	81.60
34	RING/PUCK MILL	2.00	68.00
35	Au (1 A.T. FIRE ASSAY)	8.00	280.00
35	HYDROCHLORIC/NITRIC DIGESTION	2.00	70.00
35	Ag ANALYSES	1.00	35.00

86-3010-477
KA

NET INVOICE:	827.00
LESS DISCOUNT:	248.10
FREIGHT:	.00
INVOICE TOTAL:	578.90

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056626

American Assay Laboratories

PO BOX 11560
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

:

:

CLIENT REFERENCE No: SL-D395-00

No. SAMPLES : 35

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 16 MAR 2000

REPORTED : 24 MAR 2000

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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SL-D10-077
D2

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056626

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D395-00

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SL-D395-00 402-410	0.001		0.06
SL-D395-00 410.0-414.9	0.004		0.04
SL-D395-00 414.9-422.9	0.002		<0.02
SL-D395-00 422.9-431.0	0.028	0.030	0.05
SL-D395-00 431.0-435.5	0.009		<0.02
SL-D395-00 435.5-440.7	0.001		0.02
SL-D395-00 440.7-441.2	0.007		0.06
SL-D395-00 441.2-444.6	<0.001		<0.02
SL-D395-00 444.6-446.5	<0.001		<0.02
SL-D395-00 446.5-453.4	0.003		<0.02
SL-D395-00 453.4-454.3	0.013	0.009	0.05
SL-D395-00 454.3-457.0	0.003	0.001	0.02
SL-D395-00 457-462	0.004		0.02
SL-D395-00 462.0-464.4	<0.001		<0.02
SL-D395-00 464.4-466.4	<0.001		0.06
SL-D395-00 466.4-468.0	<0.001		<0.02
SL-D395-00 468.0-470.8	0.001		0.06
SL-D395-00 470.8-472.0	<0.001		<0.02
SL-D395-00 472-477	0.001		0.05
SL-D395-00 477.0-482.4	0.001		0.09
SL-D395-00 482.4-483.5	0.001		0.05
SL-D395-00 483.5-484.6	0.001		0.02
SL-D395-00 484.6-488.7	0.001		0.02
SL-D395-00 488.7-490.4	0.002		0.02
SL-D395-00 490.4-493.5	0.026	0.018	0.06

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056626

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D395-00

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SL-D395-00 493.5-496.0	0.002		0.04
SL-D395-00 496.0-503.3	0.004		0.07
SL-D395-00 503.3-504.5	0.002		0.05
SL-D395-00 504.5-509.2	0.004	0.004	0.03
SL-D395-00 509.2-512.0	0.001		0.04
SL-D395-00 512-521	0.001		0.04
SL-D395-00 521-527	<0.001		0.03
SL-D395-00 527-537	<0.001		0.03
SL-D395-00 537-542	<0.001		0.03
76010	0.379		3.38

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056626

PO BOX 11530
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1410

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

.

:

N91

CLIENT REFERENCE No: SL-D395-00 RECEIVED : 16 MAR 2000

No. SAMPLES : 35 REPORTED : 24 MAR 2000

MAIN SAMPLE TYPE : DRILL CORE

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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056626

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D395-00

REPORTED : 24 MAR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
SL-D395-00	402-410	0.001		0.06
SL-D395-00	410.0-414.9	0.004		0.04
SL-D395-00	414.9-422.9	0.002		<0.02
SL-D395-00	422.9-431.0	0.028	0.030	0.05
SL-D395-00	431.0-435.5	0.009		<0.02
SL-D395-00	435.5-440.7	0.001		0.02
SL-D395-00	440.7-441.2	0.007		0.06
SL-D395-00	441.2-444.6	<0.001		<0.02
SL-D395-00	444.6-446.5	<0.001		<0.02
SL-D395-00	446.5-453.4	0.003		<0.02
SL-D395-00	453.4-454.3	0.013	0.009	0.05
SL-D395-00	454.3-457.0	0.003	0.001	0.02
SL-D395-00	457-462	0.004		0.02
SL-D395-00	462.0-464.4	<0.001		<0.02
SL-D395-00	464.4-466.4	<0.001		0.06
SL-D395-00	466.4-468.0	<0.001		<0.02
SL-D395-00	468.0-470.8	0.001		0.06
SL-D395-00	470.8-472.0	<0.001		<0.02
SL-D395-00	472-477	0.001		0.05
SL-D395-00	477.0-482.4	0.001		0.09
SL-D395-00	482.4-483.5	0.001		0.05
SL-D395-00	483.5-484.6	0.001		0.02
SL-D395-00	484.6-488.7	0.001		0.02
SL-D395-00	488.7-490.4	0.002		0.02
SL-D395-00	490.4-493.5	0.026	0.018	0.06

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056626

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D395-00

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
SL-D395-00 493.5-496.0	0.002		0.04
SL-D395-00 496.0-503.3	0.004		0.07
SL-D395-00 503.3-504.5	0.002		0.05
SL-D395-00 504.5-509.2	0.004	0.004	0.03
SL-D395-00 509.2-512.0	0.001		0.04
SL-D395-00 512-521	0.001		0.04
SL-D395-00 521-527	<0.001		0.03
SL-D395-00 527-537	<0.001		0.03
SL-D395-00 537-542	<0.001		0.03
76010	0.379		3.38

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056626

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

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS
: KURT ALLEN
:
:

CLIENT REFERENCE No: SL-D395-00 RECEIVED : 16 MAR 2000

No. SAMPLES : 35 REPORTED : 21 MAR 2000

MAIN SAMPLE TYPE : DRILL CORE

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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056626

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D395-00

REPORTED : 21 MAR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
SL-D395-00	402-410	0.001		
SL-D395-00	410.0-414.9	0.004		
SL-D395-00	414.9-422.9	0.002		
SL-D395-00	422.9-431.0	0.028	0.030	
SL-D395-00	431.0-435.5	0.009		
SL-D395-00	435.5-440.7	0.001		
SL-D395-00	440.7-441.2	0.007		
SL-D395-00	441.2-444.6	<0.001		
SL-D395-00	444.6-446.5	<0.001		
SL-D395-00	446.5-453.4	0.003		
SL-D395-00	453.4-454.3	0.013	0.009	
SL-D395-00	454.3-457.0	0.003	0.001	
SL-D395-00	457-462	0.004		
SL-D395-00	462.0-464.4	<0.001		
SL-D395-00	464.4-466.4	<0.001		
SL-D395-00	466.4-468.0	<0.001		
SL-D395-00	468.0-470.8	0.001		
SL-D395-00	470.8-472.0	<0.001		
SL-D395-00	472-477	0.001		
SL-D395-00	477.0-482.4	0.001		
SL-D395-00	482.4-483.5	0.001		
SL-D395-00	483.5-484.6	0.001		
SL-D395-00	484.6-488.7	0.001		
SL-D395-00	488.7-490.4	0.002		
SL-D395-00	490.4-493.5	0.026	0.018	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056626

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D395-00

REPORTED : 21 MAR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
SL-D395-00	493.5-496.0	0.002		
SL-D395-00	496.0-503.3	0.004		
SL-D395-00	503.3-504.5	0.002		
SL-D395-00	504.5-509.2	0.004	0.004	
SL-D395-00	509.2-512.0	0.001		
SL-D395-00	512-521	0.001		
SL-D395-00	521-527	<0.001		
SL-D395-00	527-537	<0.001		
SL-D395-00	537-542	<0.001		
76010		0.379		

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056909

American Assay Laboratories

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

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

:

:

CLIENT REFERENCE No: SLD-395-00 RECEIVED : 7 APR 2000

No. SAMPLES : 5 REPORTED : 19 APR 2000

MAIN SAMPLE TYPE : DRILL CORE

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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056909

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-395-00

REPORTED : 19 APR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SLD-395-00 142-147	<0.001		<0.02
SLD-395-00 147-152	<0.001		<0.02
SLD-395-00 152-157	0.001		0.08
SLD-395-00 157-162	<0.001		<0.02
89634	0.393		3.38

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056909

American Assay Laboratories

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

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

:

:

CLIENT REFERENCE No: SLD-395-00 RECEIVED : 7 APR 2000

No. SAMPLES : 5 REPORTED : 19 APR 2000

MAIN SAMPLE TYPE : DRILL CORE

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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056909

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-395-00

REPORTED : 19 APR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SLD-395-00 142-147	<0.001		<0.02
SLD-395-00 147-152	<0.001		<0.02
SLD-395-00 152-157	0.001		0.08
SLD-395-00 157-162	<0.001		<0.02
89634	0.393		3.38

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 0056909-IN
INVOICE DATE: 04/21/00

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
SLD-395-00	KURT ALLEN	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
5	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
4	DRY/JAW CRUSH ENTIRE SAMPLE	2.30	9.20
4	COARSE MILLING CHARGE	6.00	24.00
4	ROTARY SPLIT	2.40	9.60
4	RING/PUCK MILL	2.00	8.00
5	Au (1 A.T. FIRE ASSAY)	8.00	40.00
5	HYDROCHLORIC/NITRIC DIGESTION	2.00	10.00
5	Ag ANALYSES	1.00	5.00

86-3010-477
KDA

NET INVOICE:	105.80
LESS DISCOUNT:	31.74
FREIGHT:	.00
INVOICE TOTAL:	74.06

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056909

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

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS
: KURT ALLEN
:
:

CLIENT REFERENCE No: SLD-395-00 RECEIVED : 7 APR 2000

No. SAMPLES : 5 REPORTED : 19 APR 2000

MAIN SAMPLE TYPE : DRILL CORE

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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard F. Mackedon B.S.

04/19/2000 16:29 7753561413 AMERICAN ASSAY LABS PAGE 03

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056909

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-395-00

REPORTED : 19 APR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
SLD-395-00	142-147	<0.001		<0.02
SLD-395-00	147-152	<0.001		<0.02
SLD-395-00	152-157	0.001		0.08
SLD-395-00	157-162	<0.001		<0.02
89634		0.393		3.38

TARGET	Drill Hole	Dip	Azi
	395	-68	103

CUMULATIVE DEVIATION				CUMULATIVE LOCATION			
NO.	DEPTH ft.	NORTHING ft.	EASTING ft.	NO.	ELEV. ft.	NORTHING ft.	EASTING ft.
1	0.93	-0.08	0.36	0	4334.07	2204853.92	481268.36
2	19.47	-1.77	7.66	20	4315.53	2204852.23	481275.66
3	38.01	-3.46	14.96	40	4296.99	2204850.54	481282.96
4	56.56	-5.14	22.26	60	4278.44	2204848.86	481290.26
5	75.10	-6.83	29.56	80	4259.90	2204847.17	481297.56
6	93.65	-8.51	36.86	100	4241.35	2204845.49	481304.86
7	112.19	-10.20	44.16	120	4222.81	2204843.80	481312.16
8	130.73	-11.88	51.46	140	4204.27	2204842.12	481319.46
9	149.28	-13.57	58.76	160	4185.72	2204840.43	481326.76
10	167.82	-15.25	66.06	180	4167.18	2204838.75	481334.06
11	186.37	-16.94	73.36	200	4148.63	2204837.06	481341.36
12	204.91	-18.62	80.66	220	4130.09	2204835.38	481348.66
13	223.45	-20.31	87.96	240	4111.55	2204833.69	481355.96
14	242.00	-22.00	95.26	260	4093.00	2204832.00	481363.26
15	260.54	-23.68	102.56	280	4074.46	2204830.32	481370.56
16	279.08	-25.37	109.86	300	4055.92	2204828.63	481377.86
17	297.63	-27.05	117.16	320	4037.37	2204826.95	481385.16
18	316.17	-28.74	124.46	340	4018.83	2204825.26	481392.46
19	334.72	-30.42	131.76	360	4000.28	2204823.58	481399.76
20	353.26	-32.11	139.06	380	3981.74	2204821.89	481407.06
21	371.80	-33.79	146.36	400	3963.20	2204820.21	481414.36
22	390.35	-35.48	153.66	420	3944.65	2204818.52	481421.66
23	408.89	-37.16	160.96	440	3926.11	2204816.84	481428.96
24	427.43	-38.85	168.26	460	3907.57	2204815.15	481436.26
25	445.98	-40.54	175.56	480	3889.02	2204813.46	481443.56
26	464.52	-42.22	182.86	500	3870.48	2204811.78	481450.86
27	483.07	-43.91	190.16	520	3851.93	2204810.09	481458.16
28	501.61	-45.59	197.46	540	3833.39	2204808.41	481465.46
29	520.15	-47.28	204.76	560	3814.85	2204806.72	481472.76
30	538.70	-48.96	212.06	580	3796.30	2204805.04	481480.06
31	557.24	-50.65	219.36	600	3777.76	2204803.35	481487.36
32	575.78	-52.33	226.66	620	3759.22	2204801.67	481494.66
33	594.33	-54.02	233.96	640	3740.67	2204799.98	481501.96
34	612.87	-55.70	241.26	660	3722.13	2204798.30	481509.26
35	631.42	-57.39	248.56	680	3703.58	2204796.61	481516.56
36	649.96	-59.08	255.86	700	3685.04	2204794.92	481523.86
37	668.50	-60.76	263.16	720	3666.50	2204793.24	481531.16
38	687.05	-62.45	270.46	740	3647.95	2204791.55	481538.46
39	705.59	-64.13	277.76	760	3629.41	2204789.87	481545.76
40	724.14	-65.82	285.06	780	3610.86	2204788.18	481553.06
41	742.68	-67.50	292.36	800	3592.32	2204786.50	481560.36
42	761.22	-69.19	299.66	820	3573.78	2204784.81	481567.66

Drill hole # SL-D395-00

Down hole depth	Quadrant:	Measured Bearing	Corrected Azimuth	Measured Inclination	Corrected Dip
52	NE	88	103.62	22.8	-67.2
252	SE	88	107.62	22.5	-67.5
452	SE	87	108.62	22.5	-67.5

TD Depth 542

2000 Declination 15.62

Sample 395

402 - 410
410 - 414.9
414.9 - 422.9
422.9 - 431
431 - 435.5
435.5 - 440.7
440.7 - 441.2
441.2 - 444.6
444.6 - 446.5
446.5 - 453.4
453.4 - 454.3
454.3 - 457
457 - 462
462 - 464.4
464.4 - 466.4
466.4 - 468
468 - 470.8
470.8 - 472
472 - 477
477 - 482.4
482.4 - 483.5
483.5 - 484.6
484.6 - 488.7
488.7 - 490.4
490.4 - 493.5
493.5 - 496
496 - 503.3
503.3 - 504.5
504.5 - 509.2
509.2 - 512
512 - 521
521 - 527
527 - 537
537 - 541

Drill hole # SL-D395-00

Down hole depth	Quadrant:	Measured Bearing	Corrected Azimuth	Measured Inclination	Corrected Dip
52	NE	88	103.62	22.8	-67.2
252	SE	88	107.62	22.5	-67.5
452	SE	87	108.62	22.5	-67.5

TD Depth 542

2000 Declination 15.62

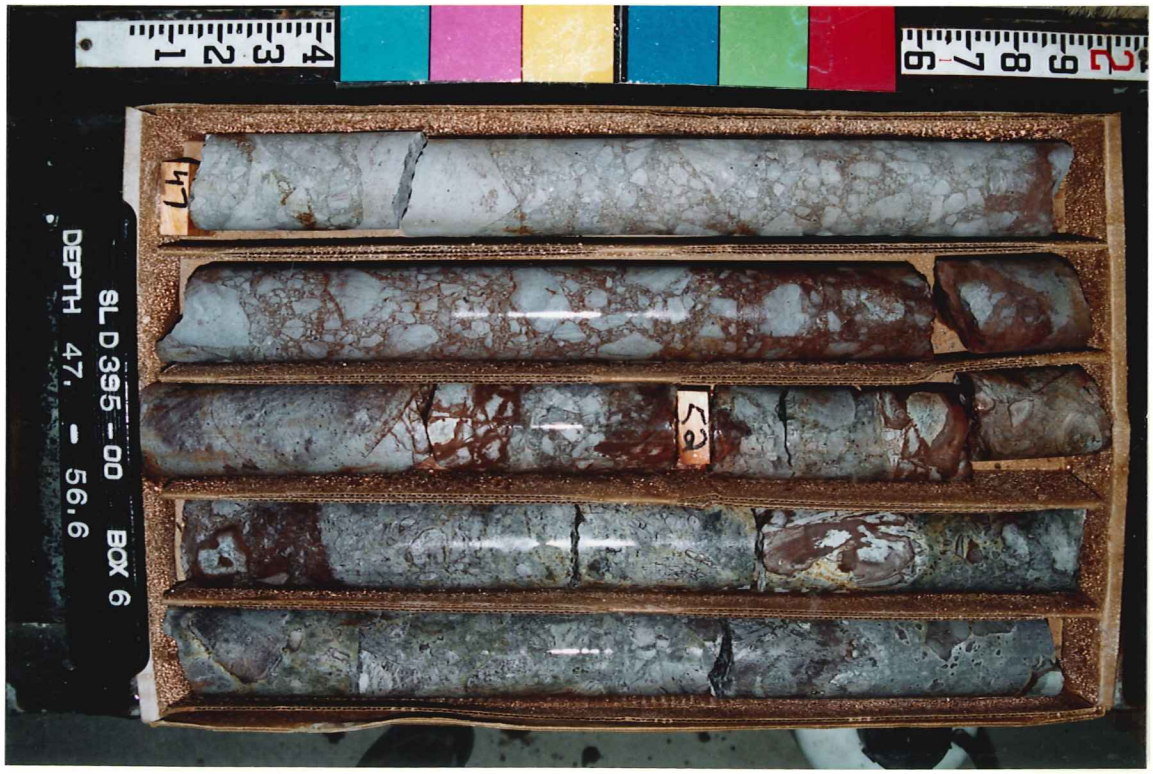
12
17
SL D 395 - 00 BOX 2
DEPTH 10.5 - 19.1

7
SL D 395 - 00 BOX 1
DEPTH 0. - 10.5

27
37
SL D 395 - 00 BOX 3
DEPTH 19.1 - 28.2

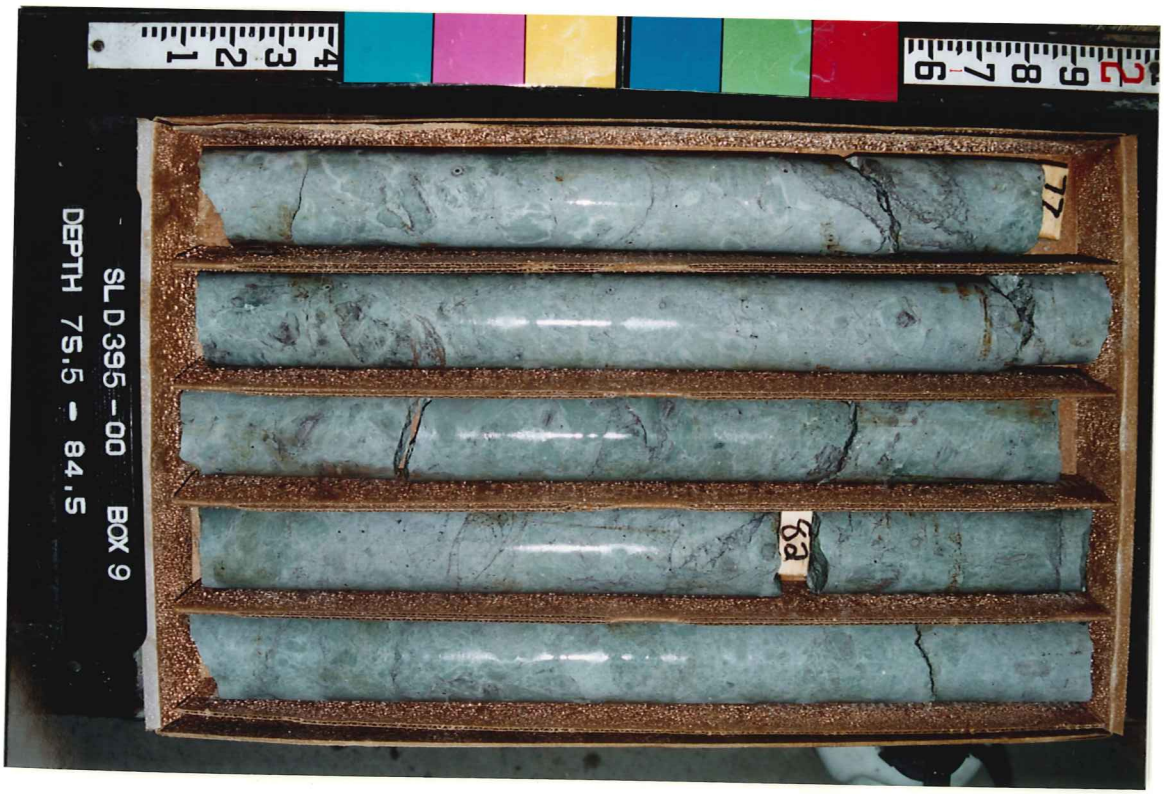
47
SL D 395 -00 BOX 5
DEPTH 38. - 47.

37
SL D 395 -00 BOX 4
DEPTH 28.2 - 38.


47
57
SL D 395 -00 BOX 6
DEPTH 47. - 56.6

SL D 395 - 00 BOX 8
DEPTH 66. - 75.5

SL D 395 - 00 BOX 7
DEPTH 56.6 - 66.


SL D 395 - 00 BOX 9
DEPTH 75.5 - 84.5

97
102
SL D 395 - 00 BOX 11
DEPTH 94.1 - 103.5

92
87
SL D 395 - 00 BOX 10
DEPTH 84.5 - 94.1

127
112
SL D 395 - 00 BOX 12
DEPTH 103.5 - 112.5

127
122
SL D 395 - 00 BOX 14
DEPTH 122. - 131.5

117
SL D 395 - 00 BOX 13
DEPTH 112.5 - 122.

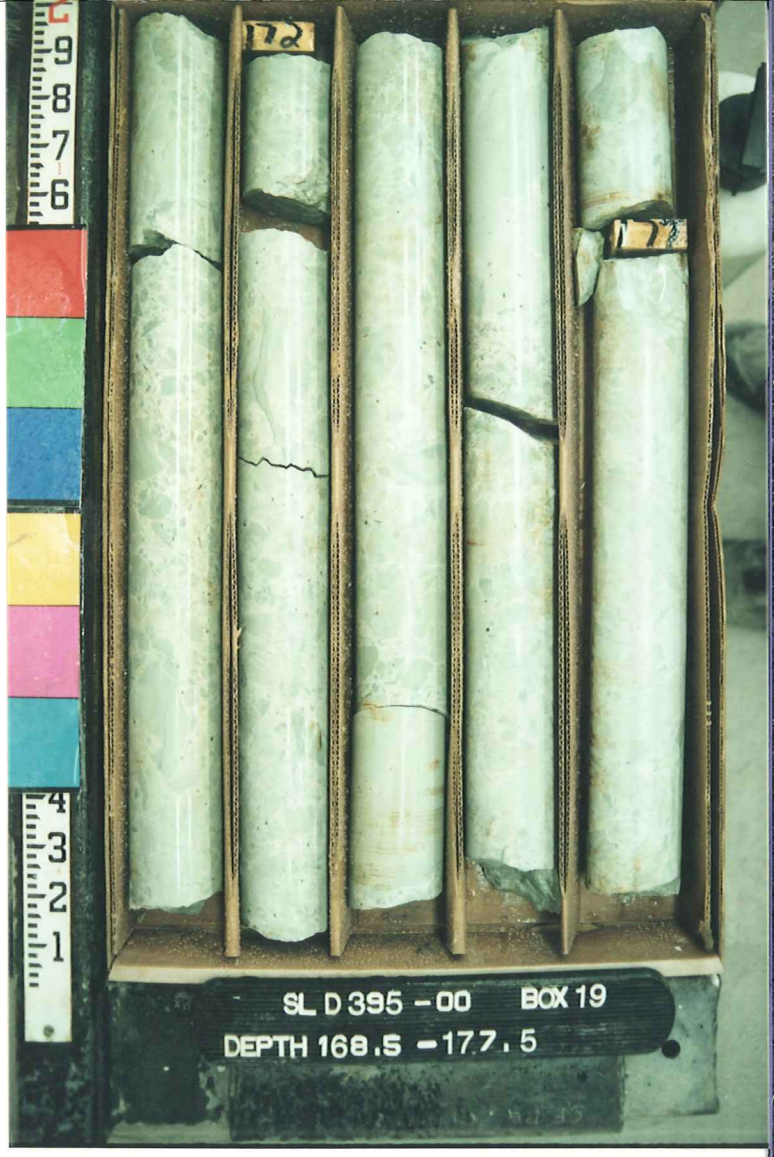
133
137
SL D 395 - 00 BOX 15
DEPTH 131.5 - 140.5

SL D 395 - 00 BOX 17
DEPTH 149.5 - 159.

SL D 395 - 00 BOX 16
DEPTH 140.5 - 149.5

SL D 395 - 00 BOX 18
DEPTH 159. - 168.5

SL D 395 - 00 BOX 20
DEPTH 177.5 - 187.


SL D 395 - 00 BOX 19
DEPTH 168.5 - 177.5

SL D 395 - 00 BOX 21
DEPTH 187. - 196.

SL D 395 - 00 BOX 23
DEPTH 205.5 - 214.

SL D 395 - 00 BOX 22
DEPTH 196. - 205.5

SL D 395 - 00 BOX 24
DEPTH 214. - 223.5

SL D 395 - 00 BOX 26
DEPTH 232.5 - 241.5

SL D 395 - 00 BOX 25
DEPTH 223.5 - 232.5

SL D 395 - 00 BOX 27
DEPTH 241.5 - 250.5

262
267
SL D 395 - 00 BOX 29
DEPTH 260. - 268.5

252
251
SL D 395 - 00 BOX 28
DEPTH 250.5 - 260.

272
277
SL D 395 - 00 BOX 30
DEPTH 268.5 - 277.5

SL D 395 - 00 BOX 32
DEPTH 286.5 - 295.5

SL D 395 - 00 BOX 31
DEPTH 277.5 - 286.5

SL D 395 - 00 BOX 33
DEPTH 295.5 - 304.5

317
322
SL D 395 - 00 BOX 35
DEPTH 314. - 323.

307
312
SL D 395 - 00 BOX 34
DEPTH 304.5 - 314.

SL D 395 - 00 BOX 36
DEPTH 323. - 332.

Box 38 Missing

378
377
SLD 395 - 00 BOX 41
DEPTH 369.5 - 378.5

367
362
SLD 395 - 00 BOX 40
DEPTH 360. - 369.5

SLD 395 - 00 BOX 42
DEPTH 378.5 - 388.

407
402
SLD 395-00 BOX 44
DEPTH 398. - 407.1

397
392
SLD 395 -00 BOX 43
DEPTH 388. - 398.

SLD 395 -00 BOX 44
DEPTH 398. -407.1 TD

SLD 395-00 BOX 46
DEPTH 417 - 426.3
417
422.7

SLD 395-00 BOX 45
DEPTH 407.1 - 417.
414.9

SLD 395-00 BOX 47
DEPTH 426.3 - 436.1
435.5

453.4
447
446.5
453
SLD 395-00 BOX 49
DEPTH 445.5 - 453.6

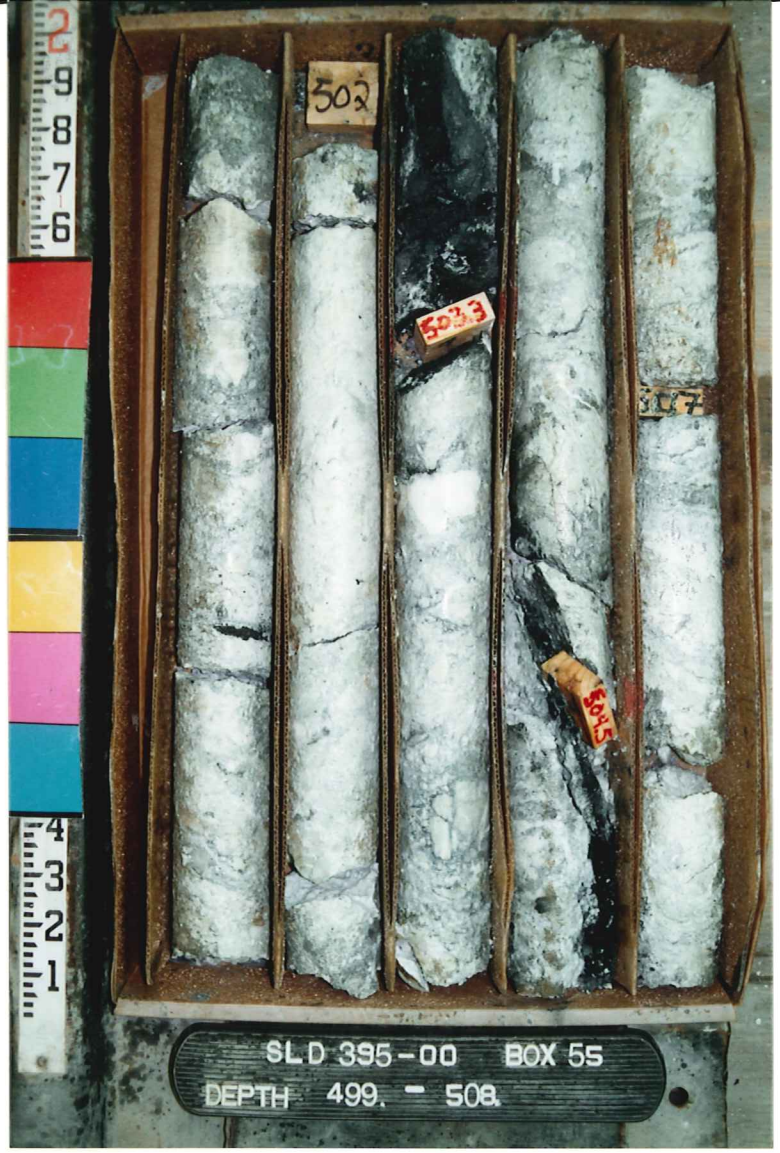
441.6
441.2
437
440.7
442
SLD 395-00 BOX 48
DEPTH 436.1 - 445.5

454.3
457
458
SLD 395-00 BOX 50
DEPTH 453.6 - 463.

SLD 395-00 BOX 52
DEPTH 472.5 -481.

464.4
468
SLD 395-00 BOX 51
DEPTH 463. -472.5

SLD 395-00 BOX 53
DEPTH 481. - 490.


502
503.3
507
508.5
SLD 395-00 BOX 55
DEPTH 499. - 508.

496.4
497.2
498.5
499.7
SLD 395-00 BOX 54
DEPTH 490. - 499.

SLD 395-00 BOX 56
DEPTH 508. - 516.5

532
542
SLD 395-00 BOX 58

517
521
522
SLD 395-00 BOX 57
DEPTH 516.5-525.

532
532
SLD 395-00 BOX 58
DEPTH 525.-534.

WELL SL-D-395.

DEPTH 452'.

PICTURE NO. 3

INCLINATION -68°

OBS. DIR.

COR. DIR.

TOOL FACE

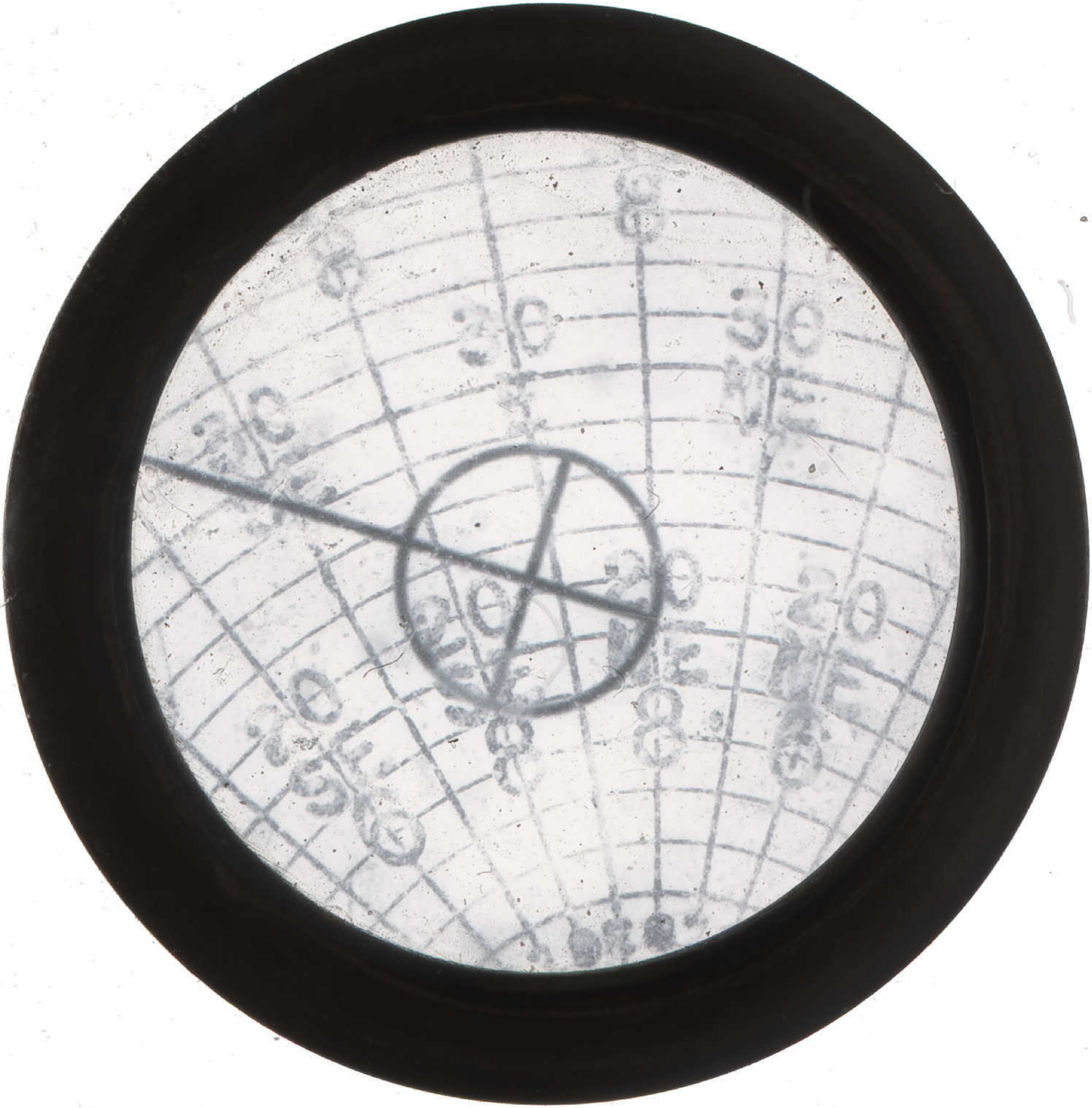
RUN BY CS.

DATE 3-3-00

CHECKED BY

sperry-sun

DRILLING SERVICES



WELL SD-395

DEPTH 252

PICTURE NO.

INCLINATION -68

OBS. DIR.

COR. DIR.

TOOL FACE

RUN BY G. GADDIE

DATE 2-3-00

CHECKED BY

sperry-sun

DRILLING SERVICES

WELL 5L-D-395.

DEPTH 52'.

PICTURE NO. 1

INCLINATION -68°

OBS. DIR.

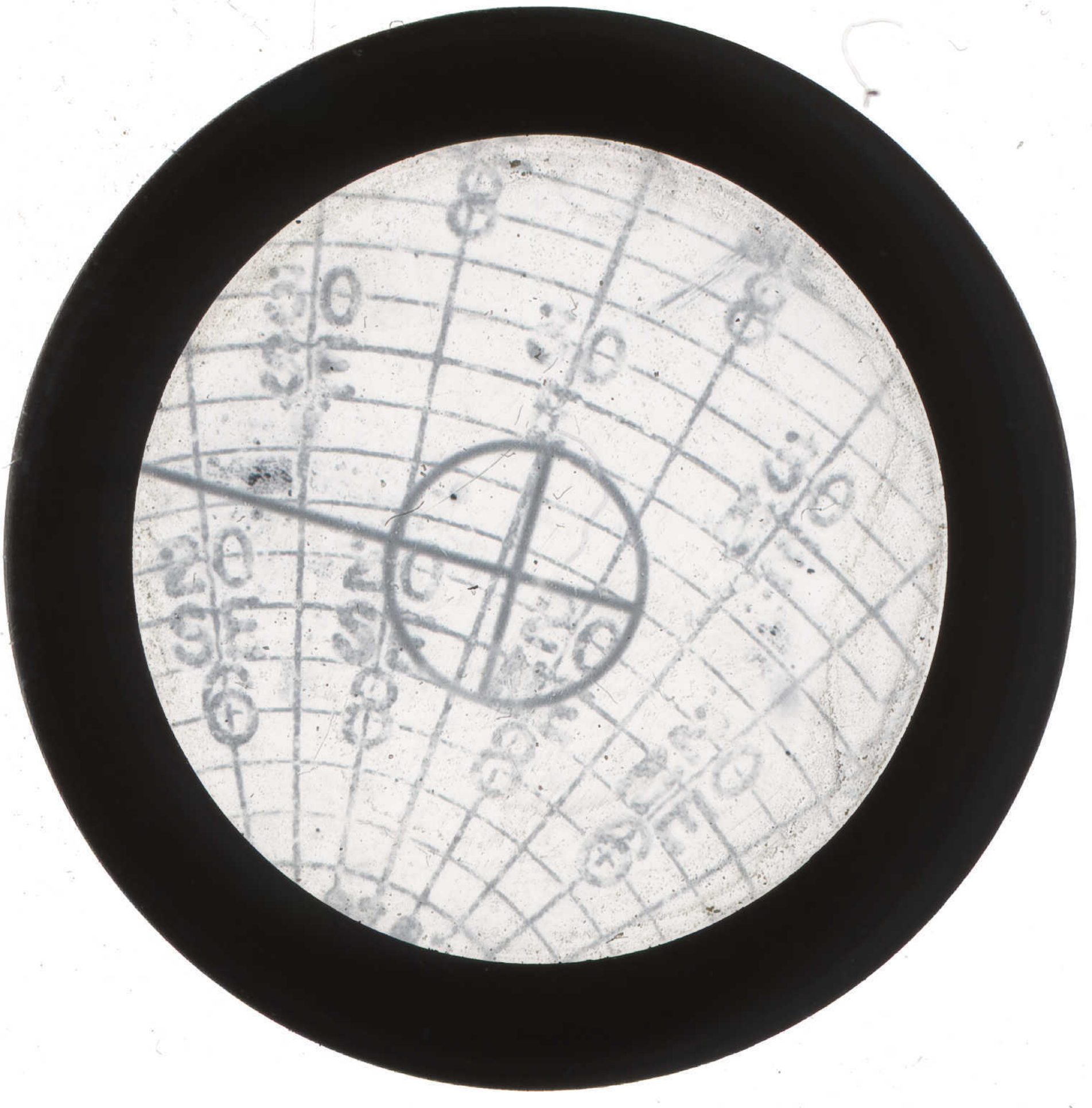
COR. DIR.

TOOL FACE

RUN BY CD.

DATE 3-2-00

CHECKED BY

sperry-sun

DRILLING SERVICES