6000 0954

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- D394-00
AUTHOR	K. Allen; D. Mackerrow; B. Morris; R. Clayton; 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 572' receipt; handwritten notes; downhole camera images photographs; correspondence 75 p. 4 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)

	Initials	Date
SS:	DD	5/12/08
DB:	mah	
SCANNED:		

Revised: 1/22/08

SL-Δ394-00

6000 0954 4010

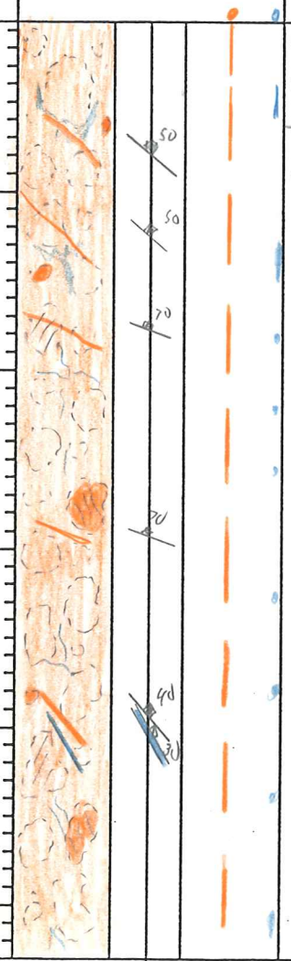
6000 0954

Hecla MINING COMPANY

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

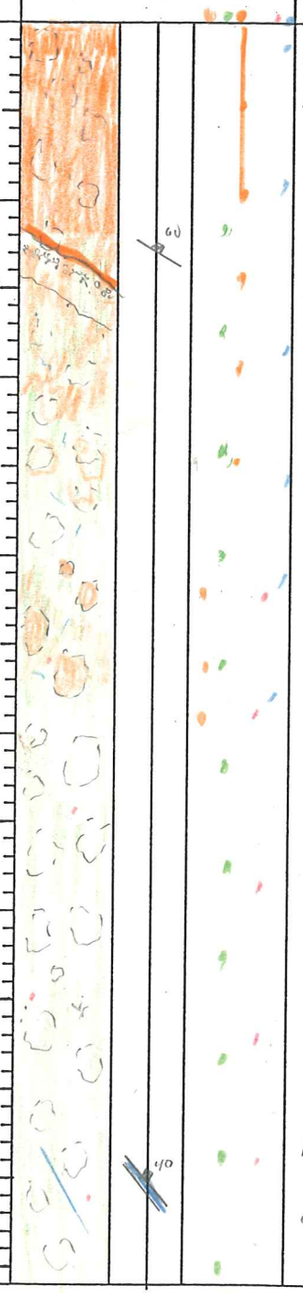
ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	SCD-394-00	LOCATION	REMARKS
PAGE 1 OF 9		NORTHING	
DATE		EASTING	
LOGGED BY	K. Allen / D. Mochran	ELEVATION	
SCALE	1" = 10'	AZIMUTH	
TOTAL DEPTH	572'	INCLINATION	

TH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
Td		0-220 DOZER Fine grained autobrecciated rhyolite flow. Pervasive hematite has stain core red brown. Autobreccia clast are pale pinkish white in a darker hematitic matrix. Fracture are brick red when present. Autobreccia clast can be planar laminated or massive	10 20 30 40 50		Autobreccia is fracture a little more than surrounding hole from 0 – 72	Calcite fracture coatings and veinlets present. They cross cut hematite stained fracture 39 calcite veins 30° tca

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ac

HOLE NUMBER SLD-394 PAGE 2 OF 9

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
Td		0-220 DOZER Fine grained autobrecciated flow continues. Hematite staining begins a gradual decrease from 52' Hematite has been removed by propylitic/chloritic alteration by >5' 63-66 Vesicular flow crackle breccia surface texture No expansion of rotation	60 70 80 90 100 110 120		63-114 apparent fractures 1/5 40°tca Fracture with calcite open space filling	82-87 Weak argillization of autobreccia clasts 82 Traces of pyrite <0.5% begin to be found 1/5 ¼" calcite vein in fracture with terminate crystals						

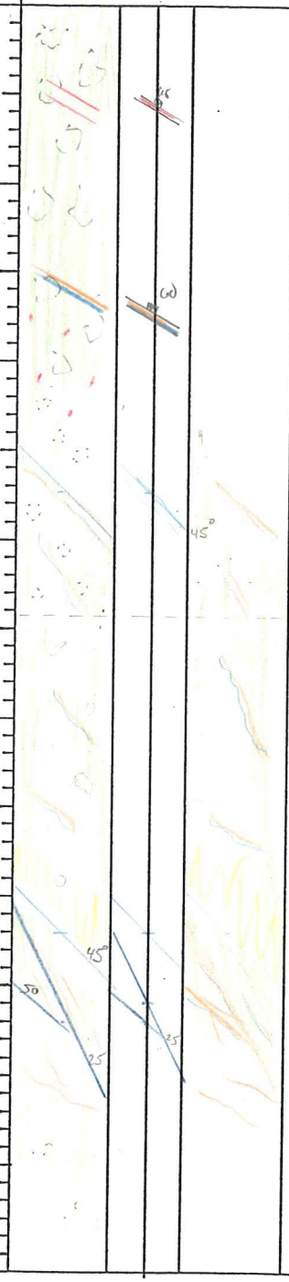
HOLE NUMBER SLD-394 PAGE 3 OF 9

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
Td		DOZER Continued as before 127 Increasing chlorite content darken autobreccia matrix	130 140 150 160 170 180 190			Calcite is restricted to micro fracture below 117						

HOLE NUMBER SLD-394 PAGE 4 OF 9

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
Td		0-220 DOZER Rhyolite flow continues Autobreccia continues No significant alteration change across contact	200 210									
Bmp		220-242.5 BMP TYPE porphyry Fine grained matrix with phenocrysts up to ½" in length and ⅛" in width. Glomeroporphyritic cluster present. Sanidine replaced by calcite	220 230 240	70 50 60 80	220 contact is sharp 242.5 low contact has a variable irregular shape	220 slightly higher chloritic content along contact 220-242.5 Propylitic altered intrusive chlorite on fracture surface						
Tr		242.5 DOZER Fine grained rhyolite flow continues with autobreccia	250 260	50 80 241		262 weak argillization bleach core w/ lighter whitish green gray						

HOLE NUMBER SLA-394 PAGE 5 OF 9

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		242.5 - 375.3' - Dozer Formation 282-294.3' - Propylitized Auto Bx'd Dozer Fm. 294.3 - 314.5' - Propylitized, mottled, Fg Dozer Fm. strongly mottled from 294.3-302' mottling + Auto Bx'ing from 302 - 314.5' 314.5 - 347' - Fine-grained ± Auto Bx.	270 280 290 300 310 320 330		314.5 - 323.8' Small white clay fractured/faults w/ slick @ ≈ 20° to fracture. these small faults range from 25° to ca to 50° to ca.	266 Pyrite veinlets and increased sulfide content begins 287.6 - 288.5' - WHITE CLAY + $CaCO_3$ Veinlet @ 45° to Ca w/ ± Black MARCASITE BLADES 288.5 - 312' - minor, thin, $CaCO_3$ + white clay fractures @ 40-50° to ca ≈ 1/16" wide. ≈ 1 fract/foot. minor SiO2 from 307-312' 312-312.7' - High-density, stockwk of $CaCO_3$ + white clay + marc ± pyrite 314.5 - 317' - High-density stockwk white clay + $CaCO_3$ + marc ± py.

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
282	287.6				
287.6	288.5				
288.5	294.3				
294.3	297				
297	302				
302	307				
307	312				
312	312.7				
312.7	314.5				
314.5	317				
317	323.8				
323.8	330.7				

HOLE NUMBER SCD-394 PAGE 6 OF 9

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
		347-375.3 Dacite Fm - fine-grained, Auto Brecciated.				330.7-335 - zone of CaCO3 & MARC, ± pyrite stockwork @ 50-60° to Co.	330.7	335				
		375.3 - 405.7 - BMB Type porphyry. Contains glomeroporphyritic plag ± sanadine. plag HAVE BEEN Replaced by chlorite green on white clays. Sanadines have been replaced by CaCO3 + white clay + MARCASITE.	340			342-347 - Interval contains one 1/4" CaCO3 veinlet w/ pyrite & a black coating? Ag sulfo?	335	342				
							342	347				
			350			@ 378.6' - a 2" zone of graphitic? coatings.	347	352				
							352	357				
			360				357	362				
							362	367				
			370				367	372				
				50	@ 375.3' - Intrusive contact between Dacite & BMB Type porphyry		372	375.3				
			380				375.3	382				
							382	387				
			390				387	392				
				70° 20°	@ 397' - Small structure of MARC to 1/4" + white clay @ 70° to Co		392	397				
			400				397	403.2				

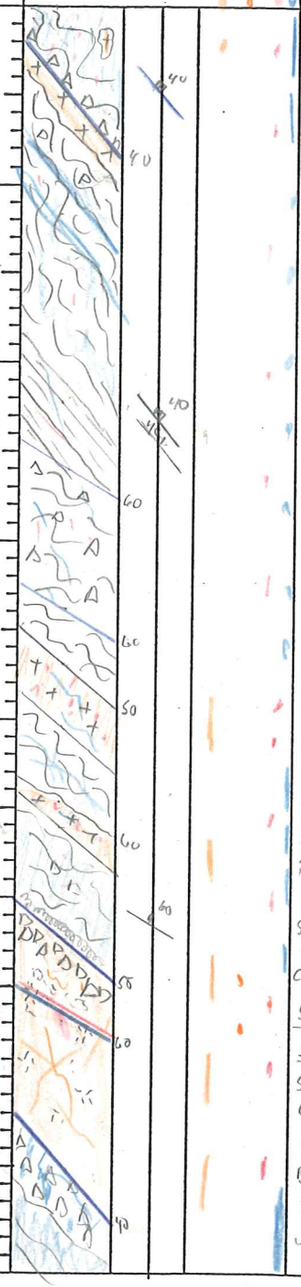
HOLE NUMBER SCD-394 PAGE 7 OF 9

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		405.7 - 414.4' - Fg Dacite ± AutoBRECCIATION 414.4-427' - BMB Type porphyry - Intensely Argillized 427-428.7' CaCO3 vein w/in fault zone 428.7 - 442' - Flow LAMINATED - Auto BRECCIATED DACITE Formation 442 - TCS	410 420 430 440		@ 405.7' - Intrusive Contact Between BMB Type Porphyry & Dacite CA UNK 424.4-427' - SHEAR/Fault Zone 70° 428.7' shear plane (pyritic blk grey clay @ 70° to CA	403.2-405 - INTENSELY ARGILLIZED Possibly sheared clay zone w/ white clay + pyrite + MARCASITE 405-405.7' - BMB 405.7-407' - Dacite w/ white clay Stockworks @ 50-60° to CA 407-408' - INTENSE to moderate Argillization + MARC + pyrite + LARGE LT. BROWN BARITE 408'-411.7 - INTENSE ARGILLIZATION Dacite Now clay w/ ABUNDANT Pyrite + MARC 414.4-417' - Light GREEN to Yellowish GREEN clay Supported Breccia, + MARC + pyrite + white clay. 417-420.2' - RUBBLE - clay zone w/clasts of BX @ 414.4-417'. 420.2-420.7 - mod Arg BMB 420.7-422' - ADVANCED (INTENSE) Arg of BMB. Totally clay but RETAINS porphyritic texture. 422-424.4 - SAME AS ABOVE with INCREASED sulfide content - MARC + pyrite 424.4-427' - SAME AS ABOVE w/ increased shearing + CaCO3 FRAGMENTS 427-428.7' - CaCO3 VEIN
TCS		442-461.7 TCS Fine grained epiclastic sediment with clast of ALS. Trapped in sheared sediment, Pale green Chloritic alteration Sediment range in size from siltstones to pebble conglomerate	450 460	ALS ALS ALS	75° 442-451 Shear mixed TCS and ALS. 449 very sharp Shear plane	
ALS		461.7-467 ALS. mixed metamorphic qtz als shale and TCS from 461.7-467 Fine grained intrusives 469-461.5 TCS ss.	470			

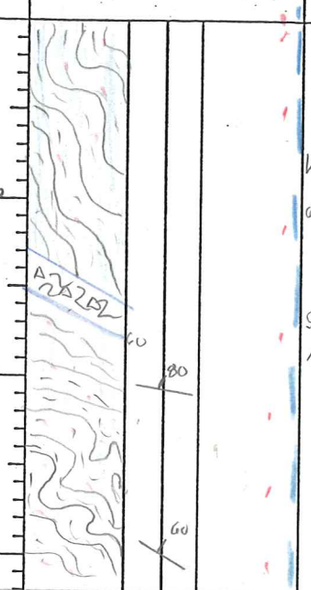
ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
			Preliminary results		
403.2	405		P .301		
405	405.7				
405.7	407				
407	408		.01		
408	411.7		.074		
411.7	414.4				
414.4	417				
417	420.2				
420.2	420.7		.027		
420.7	422		.64		
422	424.4		.573		
424.4	427		.186		
427	428.7				
428.7	429.5				
429.5	432				
432	437				
437	442				
442	447				
447	452				
452	457				
457	461.7				
461.7	467				

HOLE NUMBER SLA-394 PAGE 8 OF 9

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
T1		461.7 – 522.6 ALS Phillitic black shales with calcite and quartz veins. Fragment fine grain intrusives also 507–510.4 Fine grained medium gray intrusive. Partial argillization, calcite and white clay on fractures 514.5–516 Intrusive similar to above	480 490 500 510 520		Disrupted bedding to 484. Bedding related breccia between beds 496–504 Bedding breccia 514.5 contact is irregular 516 contact is sharp	501–502 Decalcified ALS.						
		522.3 – 535.2 DOZER Fault block of argillized rhyolite. Traces of hematitic flow banding	530		Contact breccia from 522.3 – 523.5 523.5 – 526 Fractured/sheared dozer 60° to footwall	522.3–535.2 white clay fracture fillings in Dozer. Pyrite forms vein fragments and masses	522.3	526				
		535.3 – 572 ALS Phillitic black shales and gray interbedded siltstone	540		537 Brecciated ALS to 532 beneath contact with Dozer		526	532				
							532	535.2				

HOLE NUMBER SLD-394 PAGE 9 OF 9

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
ALS		535.2-572 ALS Phillitic shales and interbedded siltstones continue. Rock is moderate to highly veined with calcite and minor quartz. There are narrow bedding related breccia.	550 560 570		Bedding orientation varies from folding and bedding breccia 554-556.5 bedding breccia	Core is calcareous with syngenetic pyrite.						
		TD: 572										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-0394-00 DATE: 4-4-00 LOGGED BY: D.G. Mucherra 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	34	78	34										
7	12	100	102	100										
12	17	100	98	100										
17	22	100	100	100										
22	27	100	100	94										
27	32	100	98	90										
32	37	100	100	88										
37	42	100	100	100										
42	47	100	100	86										
47	52	100	104	96										
52	57	100	98	88										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-D394-00 DATE: 4-4-00 LOGGED BY: D.G. Mollenhauer 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	98	92										
62	67	100	94	76										
67	72	100	100	96										
72	77	100	100	100										
77	82	100	100	100										
82	87	100	104	84										
87	92	100	100	84										
92	97	100	100	100										
97	102	100	100	100										
102	107	100	96	82										
107	112	100	100	98										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-10394-00 DATE: 4-4-00 LOGGED BY: D.G. MacKeicon 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	84										
117	122	100	100	88										
122	127	100	100	76										
127	132	100	98	100										
132	137	100	102	100										
137	142	100	100	76										
142	147	100	100	100										
147	152	100	100	100										
152	157	100	100	92										
157	162	100	100	96										
162	167	100	100	68										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-D394-00 DATE: 4-4-00 LOGGED BY: D.G. Mackenzie PAGE 4 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)
167	172	100	100	100										
172	177	100	100	100										
177	182	100	100	68										
182	187	100	100	98										
187	192	100	104	64										
192	197	100	100	68										
197	202	100	98	92										
202	207	100	102	76										
207	212	100	100	88										
212	217	100	100	78										
217	222	100	100	81										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-D394-00 DATE: 4-5-00 LOGGED BY: D.G. Mackenrow 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	106	86										
227	232	100	98	60										
232	237	100	100	82										
237	242	100	98	100										
242	247	100	104	78										
247	252	100	100	100										
252	257	100	98	92										
257	262	100	100	86										
262	267	100	100	66										
267	272	100	96	86										
272	277	100	98	100										
277	282	100	102	74										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SCA-394 DATE: 3/6/00 LOGGED BY: CDA 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	96	96	96										
287	292	94	94	94										
292	297	92	92	92										
297	302	106	106	98										
302	307	106	106	96										
307	312	100	100	88										
312	317	98	98	86										
317	322	102	102	88										
322	327	100	100	80										
327	332	100	100	100										
332	337	100	100	100										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SCD-394 DATE: 3/6/00 LOGGED BY: KDA PAGE 7 OF 11

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)
337	342	100	100	96										
342	347	100	100	96										
347	352	100	100	98										
352	357	102	102	102										
357	362	102	102	102										
362	367	100	100	100										
367	372	100	100	80										
372	377	100	100	100										
377	382	100	98	68										
382	387	98	98	92										
387	392	106	106	90										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SCD-394 DATE: 3/6/00 LOGGED BY: KAA PAGE 8 OF 11

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)
392	397	94	96	72										
397	402	100	100	50										
402	407	80	100	54										
407	412	CLAY / 66	104	CLAY / 60										
412	417	82	100	46										
417	422	CLAY / 34	92	CLAY / 16										
422	427	CLAY / 68	92	CLAY / 42										
427	432	96	96	62										
432	437	100	100	100										
437	442	94	100	90										
442	447	66	100	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-0394-00 DATE: 4-5-00 LOGGED BY: D.G. MacKerrow PAGE 9 OF 11

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)
447	452	78	100	0										
452	457	78	100	26										
457	462	100	98	44										
462	467	100	100	82										
467	472	70	100	80										
472	477	72	100	14										
477	482	76	100	46										
482	487	34	100	0										
487	492	46	102	26										
492	497	44	100	10										
497	502	94	100	74										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-0394-00 DATE: 4-5-00 LOGGED BY: D.G. Mackerron PAGE 10 OF 11

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)
502	507	92	96	0										
507	512	86	96	44										
512	517	72	102	22										
517	522	28	84	0										
522	527	100	104	78										
527	532	96	102	80										
532	537	80	98	30										
537	542	94	100	0										
542	547	70	98	0										
547	552	28	94	0										
552	557	94	100	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # SL-D394-00 DATE: 4-5-00 LOGGED BY: D.G. Mackenzie PAGE 11 OF 11

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)
557	562	82	104	0										
562	567	68	106	12										
567	572	52	102	10										

SCD394-00 4-6-00

1 442 - 447

2 447 - 452

3 452 - 457

4 457 - 461.7

5 461.7 - 467

6 522.3 - 526

7 526 - 532

8 532 - 535.2

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

Zacatecas Office
Telephone/Fax
011-52-49-234530

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Rosebud Mining L.L.C.

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: _____ Number of Samples: 8

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
SLD 394-00	Core	Au Ag ; USE Rosebud mine development protocol
442-447, 447-452, 452-457,		
457-461.7, 461.7-467,		
522.3-526, 526-532,		
532-535.2		
1 Rosebud Production	Pulp	
Standard at 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 SP056508

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-394 RECEIVED : 8 MAR 2000

No. SAMPLES : 44 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
AuGRAV	GRAV	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056508

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
SLD-394 282.0-287.6	0.001			0.03
SLD-394 287.6-288.5	0.003	0.004		0.02
SLD-394 288.5-294.3	0.001			0.02
SLD-394 294.3-297.0	0.002			<0.02
SLD-394 297-302	<0.001			<0.02
SLD-394 302-307	0.002			0.02
SLD-394 307-312	0.002			<0.02
SLD-394 312.0-312.7	0.005	0.003		0.02
SLD-394 312.7-314.5	0.002			0.02
SLD-394 314.5-317.0	0.002			0.03
SLD-394 317.0-323.8	0.002			<0.02
SLD-394 323.8-330.7	0.001			<0.02
SLD-394 330.7-335.0	0.003			0.02
SLD-394 335-342	<0.001			<0.02
SLD-394 342-347	<0.001			<0.02
SLD-394 347-352	0.001			<0.02
SLD-394 352-357	<0.001			<0.02
SLD-394 357-362	<0.001			<0.02
SLD-394 362-367	<0.001			<0.02
SLD-394 367-372	<0.001			<0.02
SLD-394 372.0-375.3	<0.001	<0.001		<0.02
SLD-394 375.3-382.0	<0.001			<0.02
SLD-394 382-387	<0.001			<0.02
SLD-394 387-392	<0.001			<0.02
SLD-394 392-397	0.002			0.03

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056508

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
SLD-394 397.0-403.2	0.001			0.26
SLD-394 403.2-405.0	0.262	0.340	0.235	0.54
SLD-394 405.0-405.7	0.003			0.04
SLD-394 405.7-407.0	0.007			0.03
SLD-394 407-408	0.010			0.02
SLD-394 408.0-411.7	0.074			0.24
SLD-394 411.7-414.4	0.004			0.02
SLD-394 414.4-417.0	0.004			0.02
SLD-394 417.0-420.2	0.027			0.06
SLD-394 420.2-420.7	0.071	0.057		0.10
SLD-394 420.7-422.0	0.004			<0.02
SLD-394 422.0-424.4	0.565	0.580	0.591	0.61
SLD-394 424.4-427.0	0.186		0.182	0.21
SLD-394 427.0-428.7	0.019			<0.02
SLD-394 428.7-429.5	0.004			0.03
SLD-394 429.5-432.0	0.001			0.03
SLD-394 432-437	<0.001			0.03
SLD-394 437-442	<0.001			0.03
76047	0.405			3.16

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056508

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-394

No. SAMPLES : 44

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 8 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
AuGRAV	GRAV	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

26-1010-477

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056508

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
SLD-394 282.0-287.6	0.001			0.03
SLD-394 287.6-288.5	0.003	0.004		0.02
SLD-394 288.5-294.3	0.001			0.02
SLD-394 294.3-297.0	0.002			<0.02
SLD-394 297-302	<0.001			<0.02
SLD-394 302-307	0.002			0.02
SLD-394 307-312	0.002			<0.02
SLD-394 312.0-312.7	0.005	0.003		0.02
SLD-394 312.7-314.5	0.002			0.02
SLD-394 314.5-317.0	0.002			0.03
SLD-394 317.0-323.8	0.002			<0.02
SLD-394 323.8-330.7	0.001			<0.02
SLD-394 330.7-335.0	0.003			0.02
SLD-394 335-342	<0.001			<0.02
SLD-394 342-347	<0.001			<0.02
SLD-394 347-352	0.001			<0.02
SLD-394 352-357	<0.001			<0.02
SLD-394 357-362	<0.001			<0.02
SLD-394 362-367	<0.001			<0.02
SLD-394 367-372	<0.001			<0.02 477
SLD-394 372.0-375.3	<0.001	<0.001		<0.02
SLD-394 375.3-382.0	<0.001			<0.02
SLD-394 382-387	<0.001			<0.02
SLD-394 387-392	<0.001			<0.02
SLD-394 392-397	0.002			0.03

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056508

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
SLD-394 397.0-403.2	0.001			0.26
SLD-394 403.2-405.0	0.262	0.340	0.235	0.54
SLD-394 405.0-405.7	0.003			0.04
SLD-394 405.7-407.0	0.007			0.03
SLD-394 407-408	0.010			0.02
SLD-394 408.0-411.7	0.074			0.24
SLD-394 411.7-414.4	0.004			0.02
SLD-394 414.4-417.0	0.004			0.02
SLD-394 417.0-420.2	0.027			0.06
SLD-394 420.2-420.7	0.071	0.057		0.10
SLD-394 420.7-422.0	0.004			<0.02
SLD-394 422.0-424.4	0.565	0.580	0.591	0.61
SLD-394 424.4-427.0	0.186		0.182	0.21
SLD-394 427.0-428.7	0.019			<0.02
SLD-394 428.7-429.5	0.004			0.03
SLD-394 429.5-432.0	0.001			0.03
SLD-394 432-437	<0.001			0.03
SLD-394 437-442	<0.001			0.03
76047	0.405			3.16

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 0056508-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
SLD-394	KURT ALLEN	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
44	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
43	DRY/JAW CRUSH ENTIRE SAMPLE	2.30	98.90
43	COARSE MILLING CHARGE	6.00	258.00
43	ROTARY SPLIT	2.40	103.20
43	RING/PUCK MILL	2.00	86.00
44	Au (1 A.T. FIRE ASSAY)	8.00	352.00
3	Au ANALYSES/GRAVIMETRIC	8.75	26.25
44	HYDROCHLORIC/NITRIC DIGESTION	2.00	88.00
44	Ag ANALYSES	1.00	44.00

86-3010-477
KDA

NET INVOICE:	1,056.35
LESS DISCOUNT:	316.91
FREIGHT:	.00
INVOICE TOTAL:	739.44

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

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-394 RECEIVED : 8 MAR 2000

No. SAMPLES : 44 REPORTED : 20 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
AuGRAV	GRAV	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 20 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
SLD-394 282.0-287.6	0.001			
SLD-394 287.6-288.5	0.003	0.004		
SLD-394 288.5-294.3	0.001			
SLD-394 294.3-297.0	0.002			
SLD-394 297-302	<0.001			
SLD-394 302-307	0.002			
SLD-394 307-312	0.002			
SLD-394 312.0-312.7	0.005	0.003		
SLD-394 312.7-314.5	0.002			
SLD-394 314.5-317.0	0.002			
SLD-394 317.0-323.8	0.002			
SLD-394 323.8-330.7	0.001			
SLD-394 330.7-335.0	0.003			
SLD-394 335-342	<0.001			
SLD-394 342-347	<0.001			
SLD-394 347-352	0.001			
SLD-394 352-357	<0.001			
SLD-394 357-362	<0.001			
SLD-394 362-367	<0.001			
SLD-394 367-372	<0.001			
SLD-394 372.0-375.3	<0.001	<0.001		
SLD-394 375.3-382.0	<0.001			
SLD-394 382-387	<0.001			
SLD-394 387-392	<0.001			
SLD-394 392-397	0.002			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 20 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
SLD-394 397.0-403.2	0.001			
SLD-394 403.2-405.0	0.262	0.340	0.235	1.8' .179
SLD-394 405.0-405.7	0.003			
SLD-394 405.7-407.0	0.007			
SLD-394 407-408	0.010			
SLD-394 408.0-411.7	0.074			
SLD-394 411.7-414.4	0.004			
SLD-394 414.4-417.0	0.004			
SLD-394 417.0-420.2	0.027			
SLD-394 420.2-420.7	0.071	0.057		
SLD-394 420.7-422.0	0.004			
SLD-394 422.0-424.4 2.4 5'	0.565	0.580	0.591	(.579) 5' @ .374
SLD-394 424.4-427.0 2.6	0.186		0.182	(.184)
SLD-394 427.0-428.7	0.019			
SLD-394 428.7-429.5	0.004			
SLD-394 429.5-432.0	0.001			
SLD-394 432-437	<0.001			
SLD-394 437-442	<0.001			
78047	0.405			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

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-394 RECEIVED : 8 MAR 2000

No. SAMPLES : 44 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
AuGRAV	GRAV	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
SLD-394 282.0-287.6	0.001			0.03
SLD-394 287.6-288.5	0.003	0.004		0.02
SLD-394 288.5-294.3	0.001			0.02
SLD-394 294.3-297.0	0.002			<0.02
SLD-394 297-302	<0.001			<0.02
SLD-394 302-307	0.002			0.02
SLD-394 307-312	0.002			<0.02
SLD-394 312.0-312.7	0.005	0.003		0.02
SLD-394 312.7-314.5	0.002			0.02
SLD-394 314.5-317.0	0.002			0.03
SLD-394 317.0-323.8	0.002			<0.02
SLD-394 323.8-330.7	0.001			<0.02
SLD-394 330.7-335.0	0.003			0.02
SLD-394 335-342	<0.001			<0.02
SLD-394 342-347	<0.001			<0.02
SLD-394 347-352	0.001			<0.02
SLD-394 352-357	<0.001			<0.02
SLD-394 357-362	<0.001			<0.02
SLD-394 362-367	<0.001			<0.02
SLD-394 367-372	<0.001			<0.02
SLD-394 372.0-375.3	<0.001	<0.001		<0.02
SLD-394 375.3-382.0	<0.001			<0.02
SLD-394 382-387	<0.001			<0.02
SLD-394 387-392	<0.001			<0.02
SLD-394 392-397	0.002			0.03

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 24 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
SLD-394 397.0-403.2	0.001			0.26	
SLD-394 403.2-405.0 1.8	0.262	0.340	0.235	0.54	
SLD-394 405.0-405.7	0.003			0.04	
SLD-394 405.7-407.0	0.007			0.03	
SLD-394 407-408	0.010			0.02	
SLD-394 408.0-411.7	0.074			0.24	
SLD-394 411.7-414.4	0.004			0.02	
SLD-394 414.4-417.0	0.004			0.02	
SLD-394 417.0-420.2	0.027			0.06	
SLD-394 420.2-420.7	0.071	0.057		0.10	422-427=5' @
SLD-394 420.7-422.0	0.004			<0.02	
SLD-394 422.0-424.4 2.4	0.565	0.580	0.591	0.61	0.374 Au
SLD-394 424.4-427.0 2.6	0.186		0.182	0.21	0.40 Ag
SLD-394 427.0-428.7	0.019			<0.02	
SLD-394 428.7-429.5	0.004			0.03	
SLD-394 429.5-432.0	0.001			0.03	
SLD-394 432-437	<0.001			0.03	
SLD-394 437-442	<0.001			0.03	
76047	0.405			3.16	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 15 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
SLD-394 282.0-287.6	0.001		
SLD-394 287.6-288.5	0.003	0.004	
SLD-394 288.5-294.3	0.001		
SLD-394 294.3-297.0	DTF		
SLD-394 297-302	<0.001		
SLD-394 302-307	0.002		
SLD-394 307-312	0.002		
SLD-394 312.0-312.7	0.005	0.003	
SLD-394 312.7-314.5	0.002		
SLD-394 314.5-317.0	0.002		
SLD-394 317.0-323.8	0.002		
SLD-394 323.8-330.7	0.001		
SLD-394 330.7-335.0	0.003		
SLD-394 335-342	<0.001		
SLD-394 342-347	<0.001		
SLD-394 347-352	0.001		
SLD-394 352-357	<0.001		
SLD-394 357-362	<0.001		
SLD-394 362-367	<0.001		
SLD-394 367-372	<0.001		
SLD-394 372.0-375.3	<0.001	<0.001	
SLD-394 375.3-382.0	<0.001		
SLD-394 382-387	<0.001		
SLD-394 387-392	<0.001		
SLD-394 392-397	0.002		

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 15 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)		Length	
SLD-394 397.0-403.2	0.001					
SLD-394 403.2-405.0	0.262	0.340		Shear	1.8'	.301
SLD-394 405.0-405.7	0.003					
SLD-394 405.7-407.0	0.007					
SLD-394 407-408	0.010					
SLD-394 408.0-411.7	0.074					
SLD-394 411.7-414.4	0.004					
SLD-394 414.4-417.0	0.004					
SLD-394 417.0-420.2	0.027					
SLD-394 420.2-420.7	0.071	0.057				
SLD-394 420.7-422.0	0.004					
SLD-394 422.0-424.4	0.565	0.580		BMB TYPE	2.4'	.573
SLD-394 424.4-427.0	0.186			BMB TYPE	2.6'	
SLD-394 427.0-428.7	0.019				5'	
SLD-394 428.7-429.5	0.004					
SLD-394 429.5-432.0	0.001					
SLD-394 432-437	<0.001					
SLD-394 437-442	<0.001					
76047	0.405			STANDARD		

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056951

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-394-00 RECEIVED : 9 APR 2000

No. SAMPLES : 9 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 SP056951

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394-00

REPORTED : 19 APR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SLD-394-00 442-447	0.001		0.07
SLD-394-00 447-452	<0.001		0.04
SLD-394-00 452-457	<0.001		0.02
SLD-394-00 457.0-461.7	<0.001		0.02
SLD-394-00 461.7-467.0	<0.001		0.06
SLD-394-00 522.3-526.0	<0.001		<0.02
SLD-394-00 526-532	<0.001		<0.02
SLD-394-00 532.0-535.2	0.001		<0.02
89641	0.148		1.78

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP056951

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-394-00 RECEIVED : 9 APR 2000

No. SAMPLES : 9 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 SP056951

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394-00

REPORTED : 19 APR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SLD-394-00 442-447	0.001		0.07
SLD-394-00 447-452	<0.001		0.04
SLD-394-00 452-457	<0.001		0.02
SLD-394-00 457.0-461.7	<0.001		0.02
SLD-394-00 461.7-467.0	<0.001		0.06
SLD-394-00 522.3-526.0	<0.001		<0.02
SLD-394-00 526-532	<0.001		<0.02
SLD-394-00 532.0-535.2	0.001		<0.02
89641	0.148		1.78

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 0056951-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-394-00	KURT ALLEN	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
9	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
8	DRY/JAW CRUSH ENTIRE SAMPLE	3.60	28.80
8	COARSE MILLING CHARGE	8.00	64.00
8	ROTARY SPLIT	3.00	24.00
8	RING/PUCK MILL	2.00	16.00
9	Au (1 A.T. FIRE ASSAY)	8.00	72.00
9	HYDROCHLORIC/NITRIC DIGESTION	2.00	18.00
9	Ag ANALYSES	1.00	9.00

86-3010-477

EAA

NET INVOICE:	231.80
LESS DISCOUNT:	69.54
FREIGHT:	.00
INVOICE TOTAL:	162.26

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056951

PO BOX 11830
RENO NV,USA
Ph.(775) 356-0606, Fax.(775) 356-1413

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS
: KURT ALLEN
:
:

CLIENT REFERENCE No: SLD-394-00 RECEIVED : 9 APR 2000
No. SAMPLES : 9 REPORTED : 17 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.

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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 SP056951

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394-00

REPORTED : 17 APR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
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SLD-394-00	447-452	<0.001		
SLD-394-00	452-457	<0.001		
SLD-394-00	457.0-461.7	<0.001		
SLD-394-00	461.7-467.0	<0.001		
SLD-394-00	522.3-526.0	<0.001		
SLD-394-00	526-532	<0.001		
SLD-394-00	532.0-535.2	0.001		
89641		0.148		

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056951

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HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS
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CLIENT REFERENCE No: SLD-394-00 RECEIVED : 9 APR 2000

No. SAMPLES : 9 REPORTED : 19 APR 2000

MAIN SAMPLE TYPE : DRILL CORE

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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 SP056951

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394-00

REPORTED : 19 APR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
SLD-394-00	442-447	0.001		0.07
SLD-394-00	447-452	<0.001		0.04
SLD-394-00	452-457	<0.001		0.02
SLD-394-00	457.0-461.7	<0.001		0.02
SLD-394-00	461.7-467.0	<0.001		0.06
SLD-394-00	522.3-526.0	<0.001		<0.02
SLD-394-00	526-532	<0.001		<0.02
SLD-394-00	532.0-535.2	0.001		<0.02
89641		0.148		1.78

Ron Clayton

800/432-5291 X 145

208/769-4145

208/769-4122

Speed dial tech serv

The Rosebud Mining Company LLC
P.O. Box 2610
Winnemucca, NV 89446
Phone (702) 623-6912
Fax (702) 623-6967
Hecla Mining Company – Manager of Mining

Facsimile Cover Sheet

DATE: 3-15-00

TO: Ron Clayton

FROM: Don Mackerrow

NUMBER OF PAGES INCLUDING COVER: 6

MESSAGE: Heur are the assay from the Drill hole SC-D364-00,

IF YOU DO NOT RECEIVE LEGIBLE COPIES OF ALL PAGES, PLEASE CALL BACK AS SOON AS POSSIBLE.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

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-394

RECEIVED : 8 MAR 2000

REPORTED : 15 MAR 2000

No. SAMPLES : 44

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.

03/15/2000 14:16 7753561413 AMERICAN ASSAY LABS PAGE 01

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

Zacatecas Office
Telephone/Fax
011-52-49-234530

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Hecla Mining Co

Address: P.O. Box 2610

City Winnemucca State NV Zip 89446

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

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 3/7/00 Number of Samples: 43

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

SLA-394 SAMPLE IDENTIFICATION			TYPE	ELEMENTS REQUIRED
282-287.6	347-352	408-411.7	Core	Au/Ag as per Rosebud Exploration Core Protocol
287.6-288.5	352-357	411.7-414.4		
288.5-294.3	357-362	414.4-417		
294.3-297	362-367	417-420.2		
297-302	367-372	420.2-420.7		
302-307	372-375.3	420.7-422		
307-312	375.3-382	422-424.4		
312-312.7	382-387	424.4-427		
312.7-314.5	387-392	427-428.7		
314.5-317	392-397	428.7-429.5		
317-323.8	397-403.2	429.5-432		
323.8-330.7	403.2-405	432-437		
330.7-335	405-409.7	437-442		
335-342	405.7-407			
342-347	407-408			

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:

Rush!

CLIENT FILE COPY

Drill hole # SL-D394-00

Down hole depth	Measured Bearing	Corrected Azimuth	Measured Inclination	Corrected Dip
Quadrant:	NE			
52	76	91.62	36	-54
252	79	94.62	35.5	-54.5
572	79	94.62	0	-90

TD Depth 572

2000 Declination 15.62

Expanded

TARGET	Drill Hole	Dip	Azi
	394	-55	94

CUMULATIVE DEVIATION				CUMULATIVE LOCATION			
NO.	DEPTH ft.	NORTHING ft.	EASTING ft.	NO.	ELEV. ft.	NORTHING ft.	EASTING ft.
1	0.82	-0.04	0.57	0	4334.18	2204853.96	481268.57
2	17.20	-0.84	12.02	20	4317.80	2204853.16	481280.02
3	33.59	-1.64	23.46	40	4301.41	2204852.36	481291.46
4	49.97	-2.44	34.90	60	4285.03	2204851.56	481302.90
5	66.35	-3.24	46.35	80	4268.65	2204850.76	481314.35
6	82.74	-4.04	57.79	100	4252.26	2204849.96	481325.79
7	99.12	-4.84	69.23	120	4235.88	2204849.16	481337.23
8	115.50	-5.64	80.68	140	4219.50	2204848.36	481348.68
9	131.88	-6.44	92.12	160	4203.12	2204847.56	481360.12
10	148.27	-7.24	103.56	180	4186.73	2204846.76	481371.56
11	164.65	-8.04	115.01	200	4170.35	2204845.96	481383.01
12	181.03	-8.85	126.45	220	4153.97	2204845.15	481394.45
13	197.42	-9.65	137.89	240	4137.58	2204844.35	481405.89
14	213.80	-10.45	149.34	260	4121.20	2204843.55	481417.34
15	230.18	-11.25	160.78	280	4104.82	2204842.75	481428.78
16	246.57	-12.05	172.22	300	4088.43	2204841.95	481440.22
17	262.95	-12.85	183.67	320	4072.05	2204841.15	481451.67
18	279.33	-13.65	195.11	340	4055.67	2204840.35	481463.11
19	295.72	-14.45	206.55	360	4039.28	2204839.55	481474.55
20	312.10	-15.25	218.00	380	4022.90	2204838.75	481486.00
21	328.48	-16.05	229.44	400	4006.52	2204837.95	481497.44
22	344.87	-16.85	240.88	420	3990.13	2204837.15	481508.88
23	361.25	-17.65	252.33	440	3973.75	2204836.35	481520.33
24	377.63	-18.45	263.77	460	3957.37	2204835.55	481531.77
25	394.02	-19.25	275.21	480	3940.98	2204834.75	481543.21
26	410.40	-20.05	286.66	500	3924.60	2204833.95	481554.66
27	426.78	-20.85	298.10	520	3908.22	2204833.15	481566.10
28	443.17	-21.65	309.54	540	3891.83	2204832.35	481577.54
29	459.55	-22.45	320.99	560	3875.45	2204831.55	481588.99
30	475.93	-23.25	332.43	580	3859.07	2204830.75	481600.43
31	492.31	-24.05	343.87	600	3842.69	2204829.95	481611.87
32	508.70	-24.85	355.32	620	3826.30	2204829.15	481623.32
33	525.08	-25.65	366.76	640	3809.92	2204828.35	481634.76
34	541.46	-26.46	378.20	660	3793.54	2204827.54	481646.20
35	557.85	-27.26	389.65	680	3777.15	2204826.74	481657.65
36	574.23	-28.06	401.09	700	3760.77	2204825.94	481669.09
37	590.61	-28.86	412.53	720	3744.39	2204825.14	481680.53
38	607.00	-29.66	423.98	740	3728.00	2204824.34	481691.98
39	623.38	-30.46	435.42	760	3711.62	2204823.54	481703.42
40	639.76	-31.26	446.86	780	3695.24	2204822.74	481714.86
41	656.15	-32.06	458.31	800	3678.85	2204821.94	481726.31
42	672.53	-32.86	469.75	820	3662.47	2204821.14	481737.75

2204837 N
481501 E
4000

410 3998,3

2204838 481503.2

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

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-394 RECEIVED : 8 MAR 2000

No. SAMPLES : 44 REPORTED : 20 MAR 2000

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-
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ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
AuGRAV	GRAV	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

03/20/2000 16:43 7753561413 AMERICAN ASSAY LABS PAGE 01
7753561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-394

REPORTED : 20 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
SLD-394 282.0-287.6	0.001			
SLD-394 287.6-288.5	0.003	0.004		
SLD-394 288.5-294.3	0.001			
SLD-394 294.3-297.0	0.002			
SLD-394 297-302	<0.001			
SLD-394 302-307	0.002			
SLD-394 307-312	0.002			
SLD-394 312.0-312.7	0.005	0.003		
SLD-394 312.7-314.5	0.002			
SLD-394 314.5-317.0	0.002			
SLD-394 317.0-323.8	0.002			
SLD-394 323.8-330.7	0.001			
SLD-394 330.7-335.0	0.003			
SLD-394 335-342	<0.001			
SLD-394 342-347	<0.001			
SLD-394 347-352	0.001			
SLD-394 352-357	<0.001			
SLD-394 357-362	<0.001			
SLD-394 362-367	<0.001			
SLD-394 367-372	<0.001			
SLD-394 372.0-375.3	<0.001	<0.001		
SLD-394 375.3-382.0	<0.001			
SLD-394 382-387	<0.001			
SLD-394 387-392	<0.001			
SLD-394 392-397	0.002			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056508

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REFERENCE : SLD-394

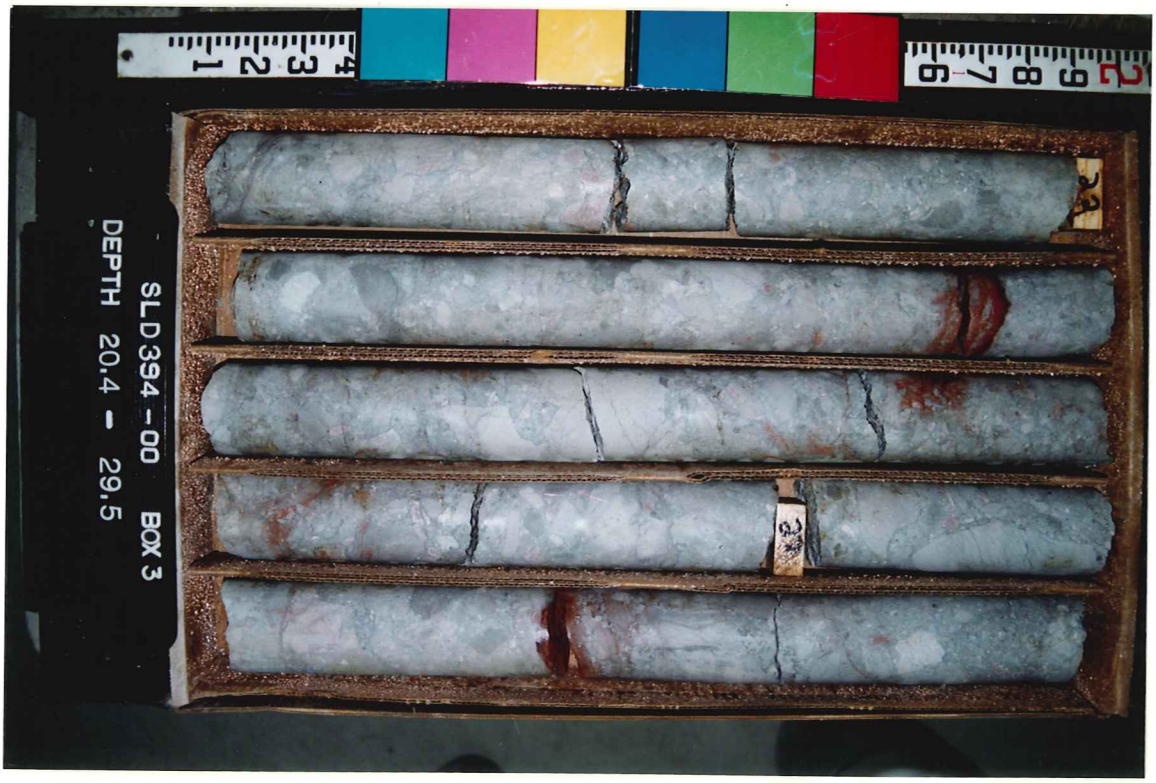
REPORTED : 20 MAR 2000

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
SLD-394 397.0-403.2	0.001			
SLD-394 403.2-405.0	0.262	0.340	0.235	1.8'
SLD-394 405.0-405.7	0.003			
SLD-394 405.7-407.0	0.007			
SLD-394 407-408	0.010			
SLD-394 408.0-411.7	0.074			
SLD-394 411.7-414.4	0.004			
SLD-394 414.4-417.0	0.004			
SLD-394 417.0-420.2	0.027			
SLD-394 420.2-420.7	0.071	0.057		
SLD-394 420.7-422.0	0.004			
SLD-394 422.0-424.4 2" 5'	0.565	0.580	0.591	(.579)
SLD-394 424.4-427.0 2.6	0.186		0.182	(.184)
SLD-394 427.0-428.7	0.019			
SLD-394 428.7-429.5	0.004			
SLD-394 429.5-432.0	0.001			
SLD-394 432-437	<0.001			
SLD-394 437-442	<0.001			
76047	0.405			

5' @ .374 Au

SLD394-00 BOX 2
DEPTH 11. - 20.4

SLD394-00 BOX 1
DEPTH 0. - 11.


SLD394-00 BOX 3
DEPTH 20.4 - 29.5

42
47
SLD 394 -00 BOX 5
DEPTH 39. - 49.3

37
39
SLD 394 -00 BOX 4
DEPTH 29.5 - 39.

53
57
SLD 394 -00 BOX 6
DEPTH 49.3 - 58.

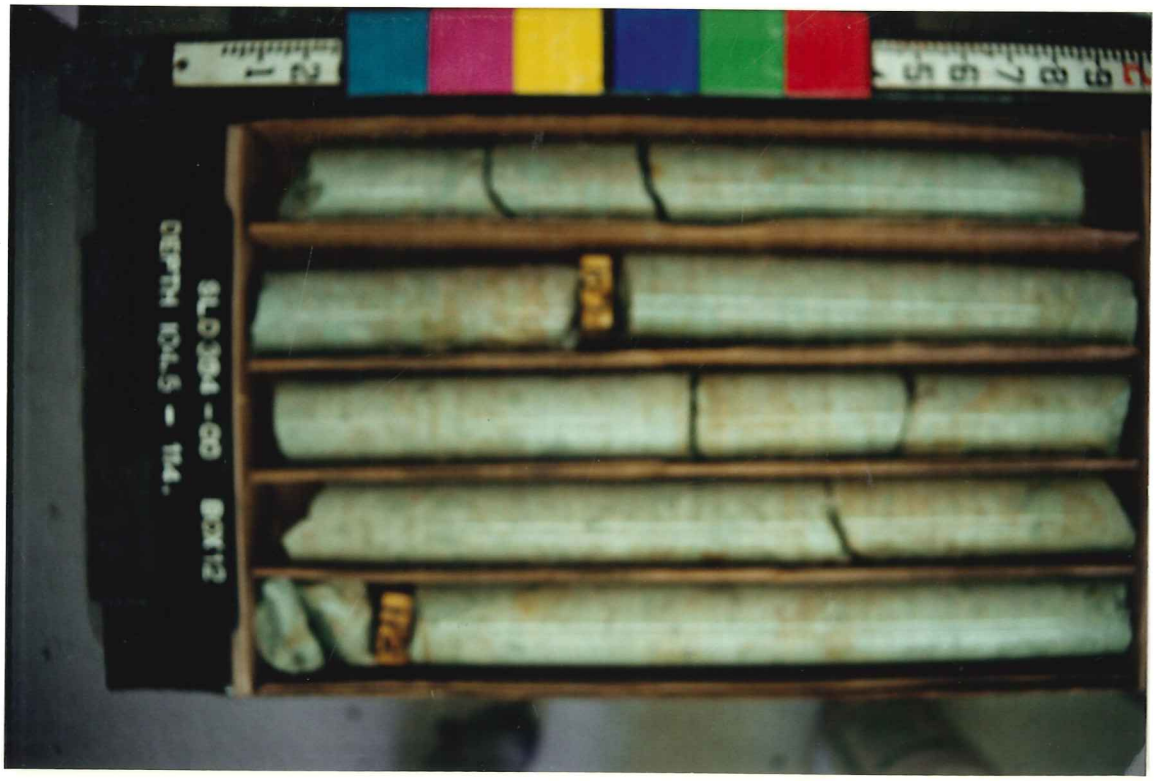
SLD 394 - 00 BOX 8
DEPTH 68. - 77.

67
SLD 394 - 00 BOX 7
DEPTH 58. - 68.

SLD 394 - 00 BOX 9
DEPTH 77. - 86.5

SLD 394 -00 BOX 11
DEPTH 95.5 - 124.5

SLD 394 -00 BOX 10
DEPTH 86.5 - 95.5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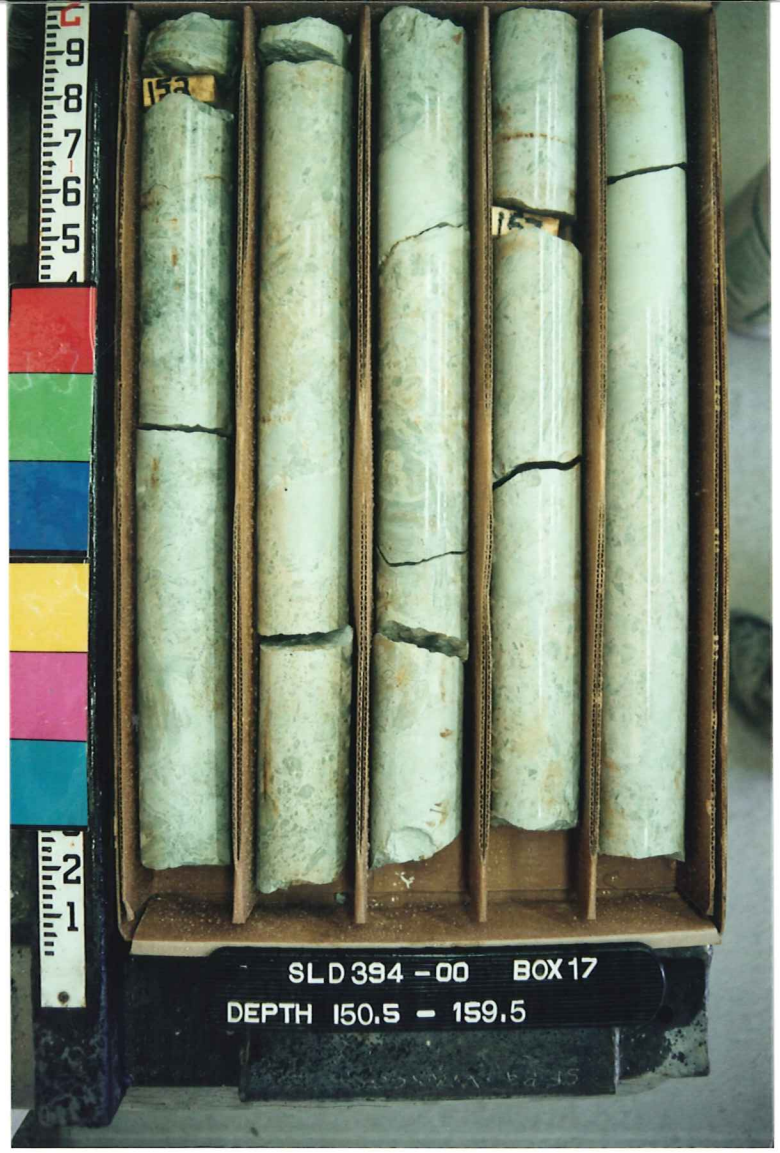
DEPTH 124.5 - 134.

SLD 394 - 00 BOX 14
DEPTH 123. - 132.

SLD 394 - 00 BOX 13
DEPTH 114. - 123.

SLD 394 - 00 BOX 15
DEPTH 132. - 141.5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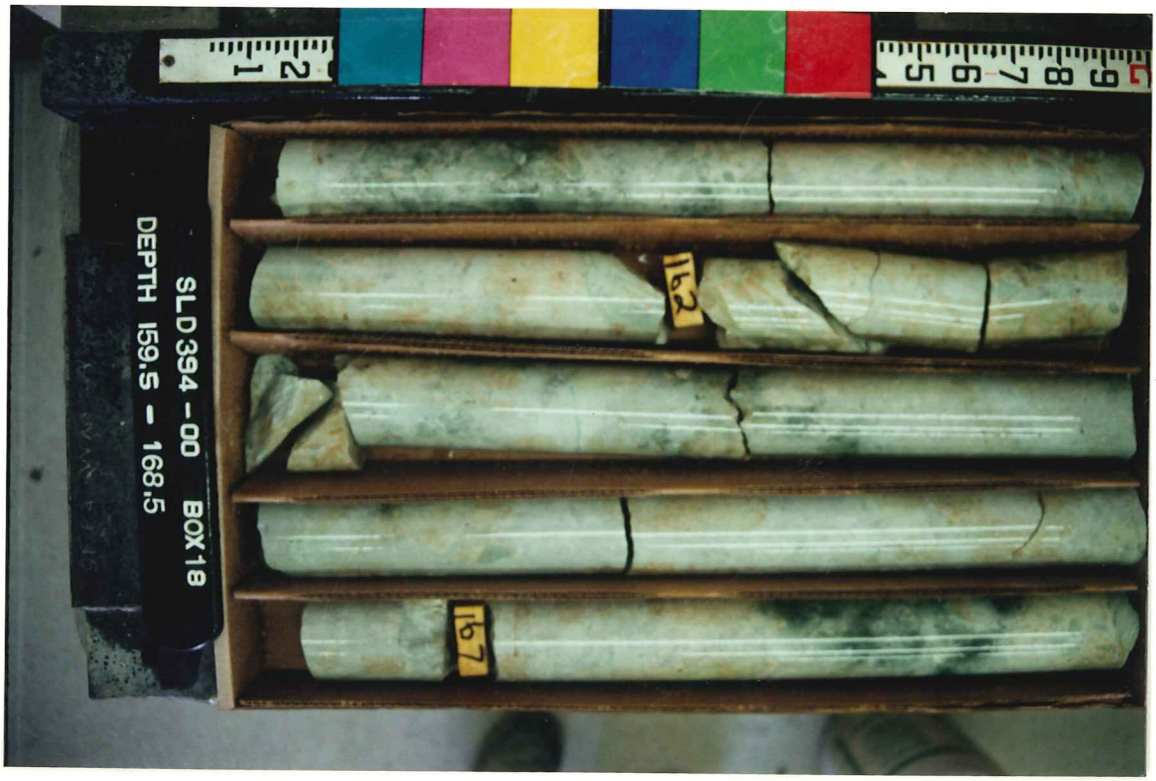
DEPTH 150.5 - 159.5

142
147
SLD 394 - 00 BOX 16
DEPTH 141. - 150.5


162
167
SLD 394 - 00 BOX 18
DEPTH 159.5 - 168.5

187
182
SLD 394 - 00 BOX 20
DEPTH 178. - 187.5

172
167
SLD 394 - 00 BOX 19
DEPTH 168.5 - 178.

SLD 394 - 00 BOX 21
DEPTH 187.5 - 197.

SLD 394 - 00 BOX 23
DEPTH 206.5 - 215.

SLD 394 - 00 BOX 22
DEPTH 197. - 206.5

SLD 394 - 00 BOX 24

237
242
SLD 394 - 00 BOX 26
DEPTH 233.5 - 242.5

227
232
SLD 394 - 00 BOX 25
DEPTH 224.5 - 233.5

247
SLD 394 - 00 BOX 27
DEPTH 242.5 - 251.5

SLD 394 - 00 BOX 29
DEPTH 260.5 - 270.

SLD 394 - 00 BOX 28
DEPTH 251.5 - 260.5

SLD 394 - 00 BOX 30
DEPTH 270. - 279.

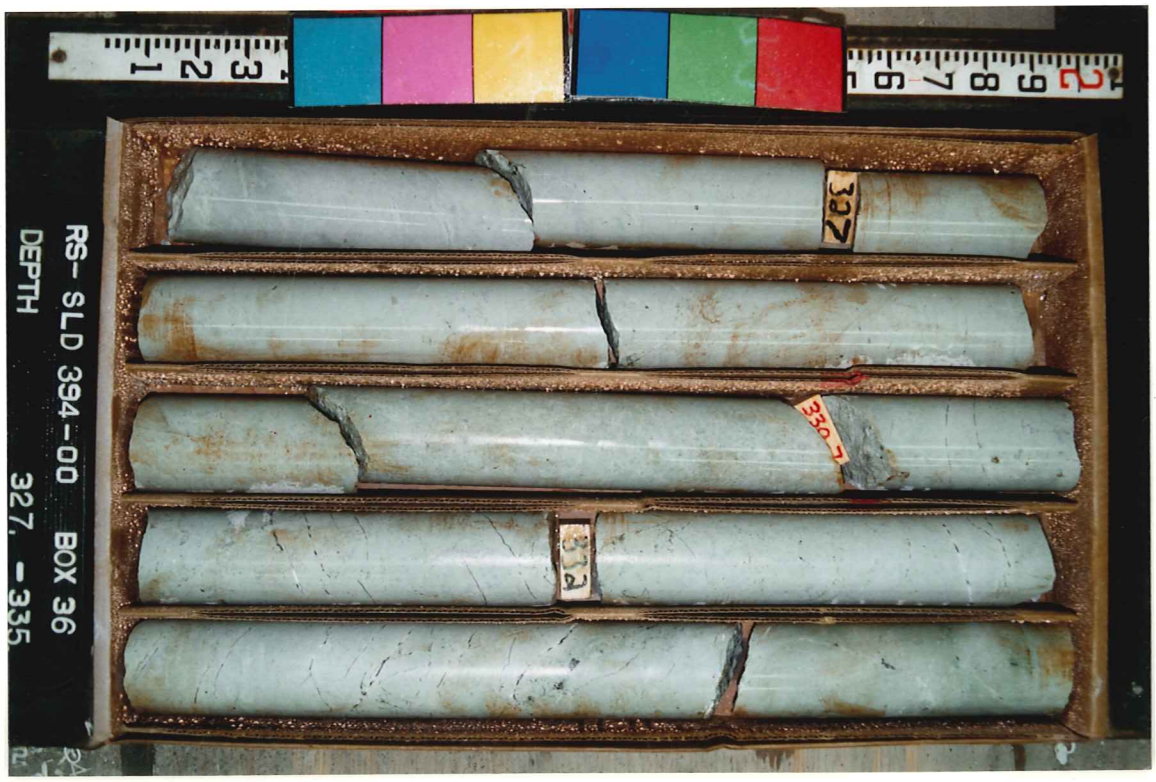
RS- SLD 394-00 BOX 32
DEPTH 288.5 - 297.5

RS- SLD 394-00 BOX 31
DEPTH 279.0 - 288

RS- SLD 394-00 BOX 33
DEPTH 297.5 - 307.

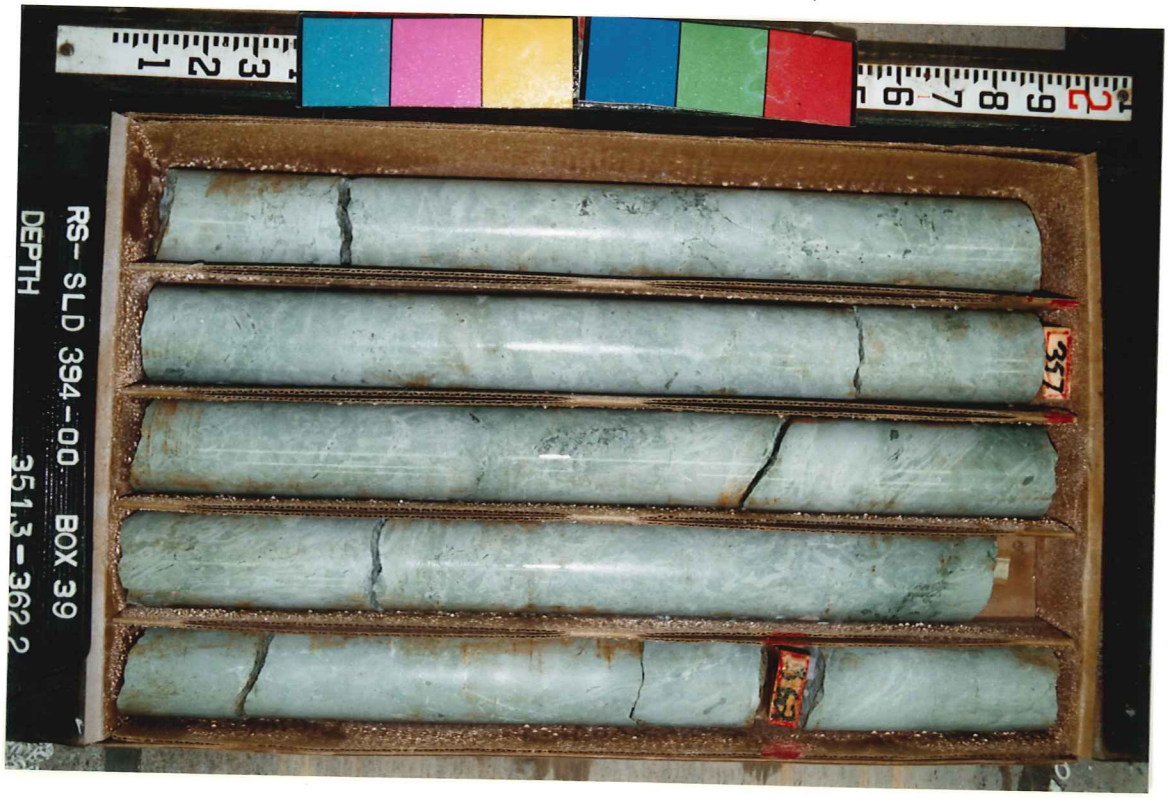
317
323
323.8
RS- SLD 394-00 BOX 35
DEPTH 316.5 - 327.

312.7
314.5
312
307
RS- SLD 394-00 BOX 34
DEPTH 307. - 316.5


327
330.7
332
RS- SLD 394-00 BOX 36
DEPTH 327. - 335

347
353
RS- SLD 394-00 BOX 38
DEPTH 344.5 - 351.3

335
337
342
RS- SLD 394-00 BOX 37
DEPTH 335. - 344.5


357
361
RS- SLD 394-00 BOX 39
DEPTH 351.3 - 362.2

375.3
377
379
RS- SLD 394-00 BOX 41
DEPTH 372. -381.2

RS- SLD 394-00 BOX 40
DEPTH 362.2-372.

RS- SLD 394-00 BOX 42
DEPTH 381.2-390.

RS- SLD 394-00 BOX44
DEPTH 399.5-400.1
402
403.2
405.7
405

RS- SLD 394-00 BOX43
DEPTH 390. -399.5
397

RS- SLD 394-00 BOX45
DEPTH 400.1-417.
408
412
414.4
417

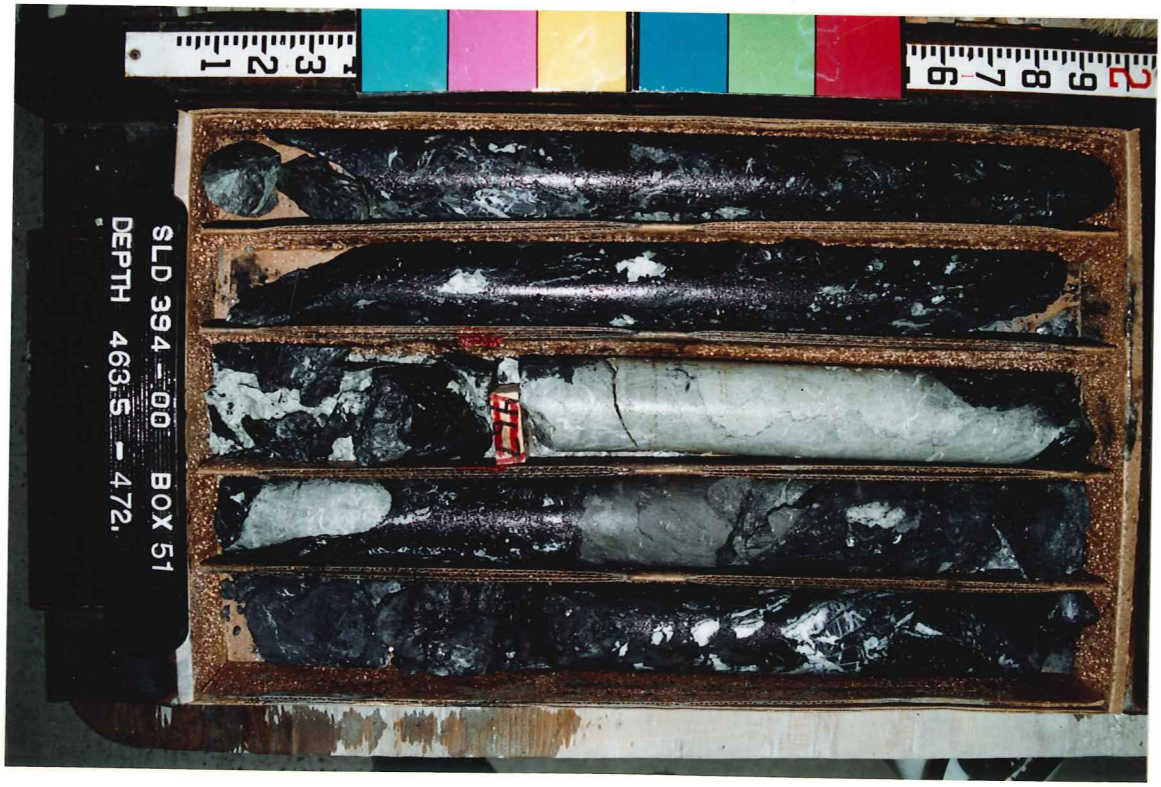
428.7
432
429.5
RS- SLD 394-00 BOX47
DEPTH 427. -436.5

420.7
424.4
420.2
RS- SLD 394-00 BOX46
DEPTH 417. -427.

RS- SLD 394-00 BOX48
DEPTH 436.5 -445.5

457
462
461.7
SLD 394 - 00 BOX 50
DEPTH 454.5 - 463.5

447
452
SLD 394 - 00 BOX 49
DEPTH 445.5 - 454.5


SLD 394 - 00 BOX 51
DEPTH 463.5 - 472.

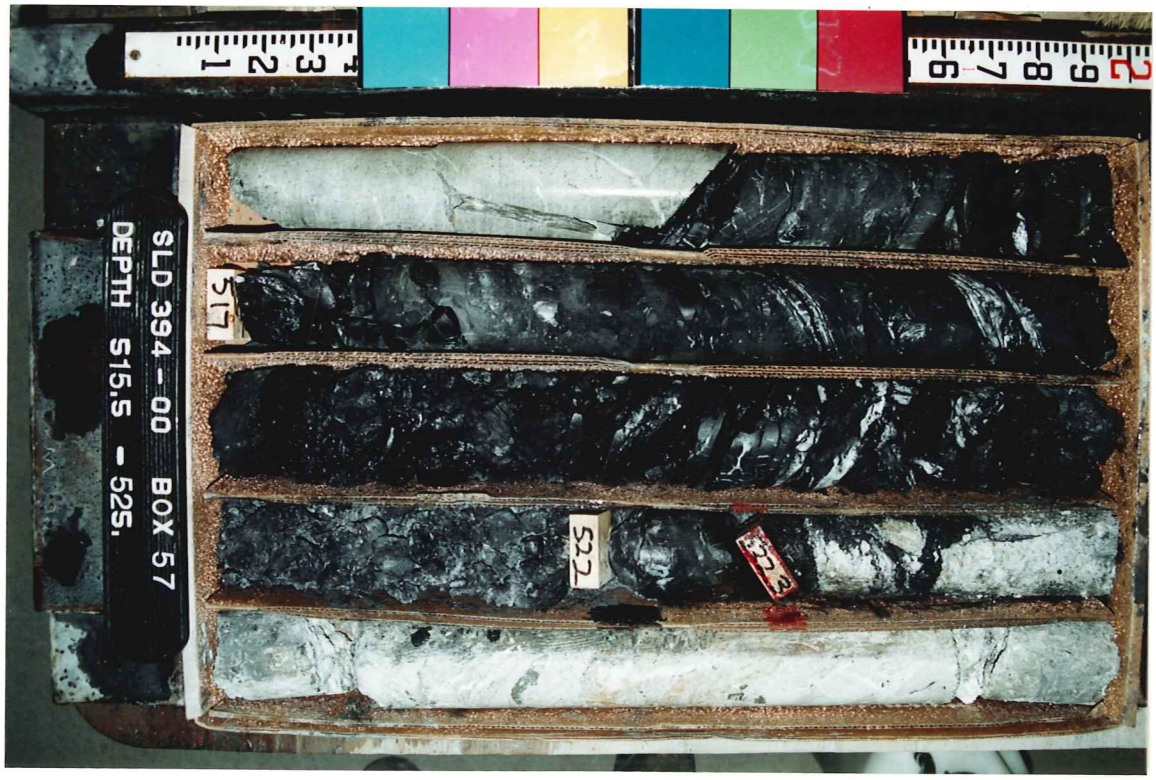
487
482
SLD 394 - 00 BOX 53
DEPTH 481. - 489.

472
477
SLD 394 - 00 BOX 52
DEPTH 472. - 481.

492
497
SLD 394 - 00 BOX 54
DEPTH 489. - 497.

SLD 394 - 00 BOX 56
DEPTH 506.5 - 515.5

SLD 394 - 00 BOX 55
DEPTH 497. - 506.5


SLD 394 - 00 BOX 57
DEPTH 515.5 - 525.

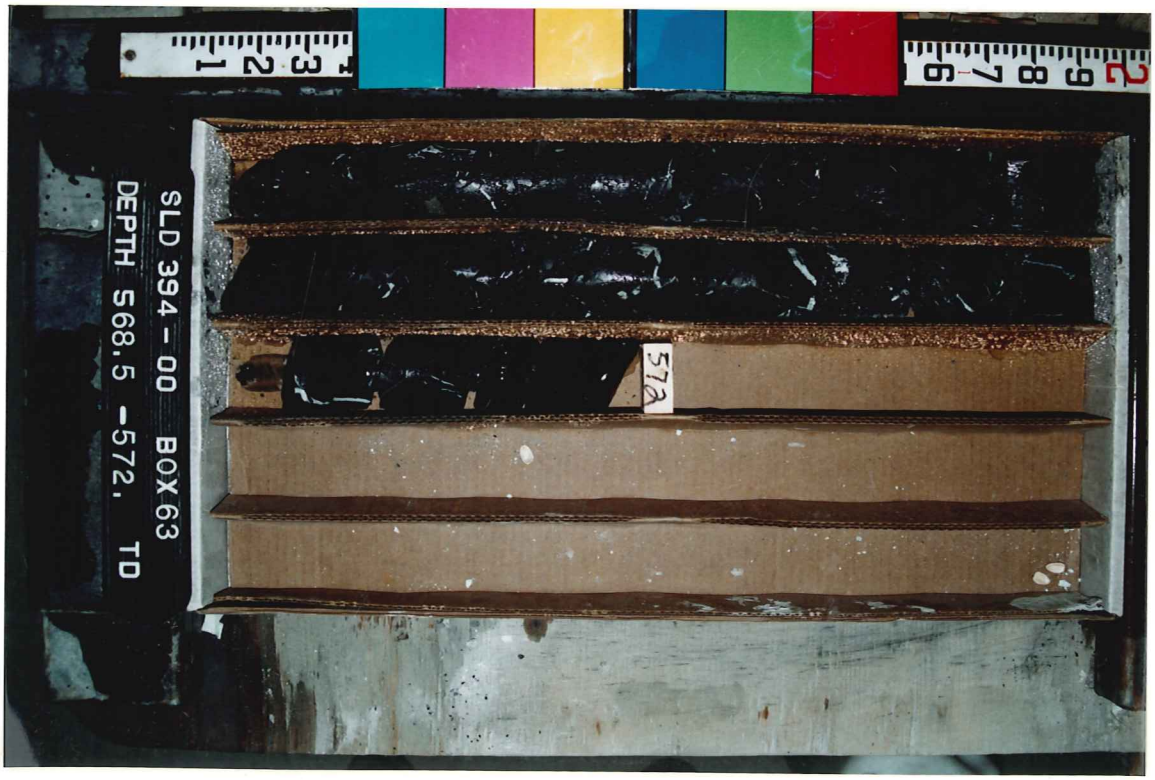
537
535
SLD 394 - 00 BOX 59
DEPTH 532. - 541.5

526
527
SLD 394 - 00 BOX 58
DEPTH 525. - 533.7

542
545
SLD 394 - 00 BOX 60
DEPTH 541.5 -551.

562
567
SLD 394 - 00 BOX 62
DEPTH 560. -568.5

552
557
SLD 394 - 00 BOX 61
DEPTH 551. -560.


572
SLD 394 - 00 BOX 63
DEPTH 568.5 -572. TD

WELL SLA-39.4

DEPTH 52'

PICTURE NO. 2

INCLINATION -55

OBS. DIR.

COR. DIR.

TOOL FACE

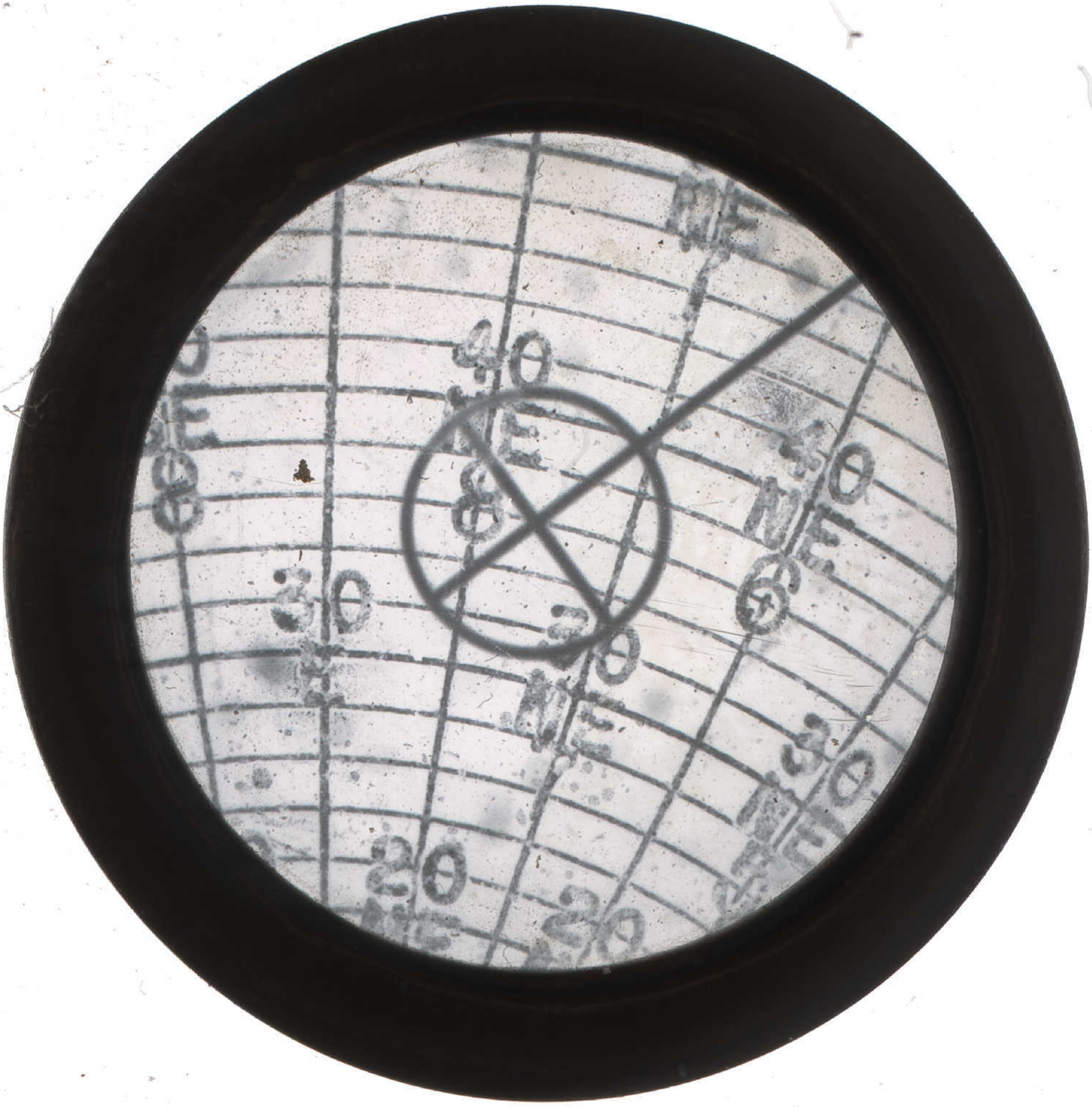
RUN BY G GAMIE

DATE 2-27-00

CHECKED BY

sperry-sun

DRILLING SERVICES


NE
40
NE
40
NE
30
NE
30
NE
20
NE
20

WELL SLD-394

DEPTH 572'

PICTURE NO.

INCLINATION .55

OBS. DIR.

COR. DIR.

TOOL FACE

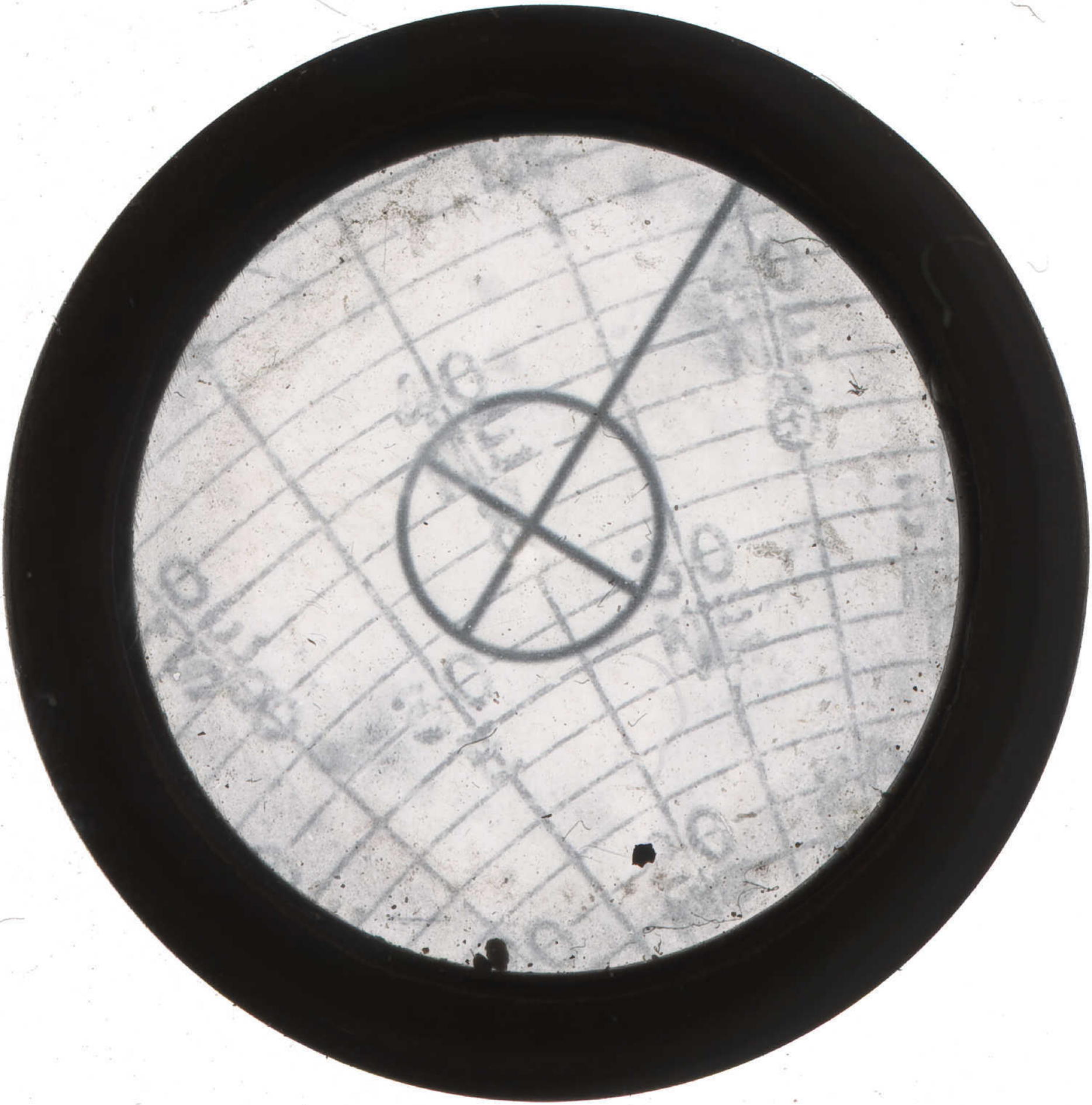
RUN BY G. GANDIE

DATE 3-1-00

CHECKED BY

sperry-sun

DRILLING SERVICES



WELL SLD-994

DEPTH 252

PICTURE NO.

INCLINATION -55°

OBS. DIR.

COR. DIR.

TOOL FACE

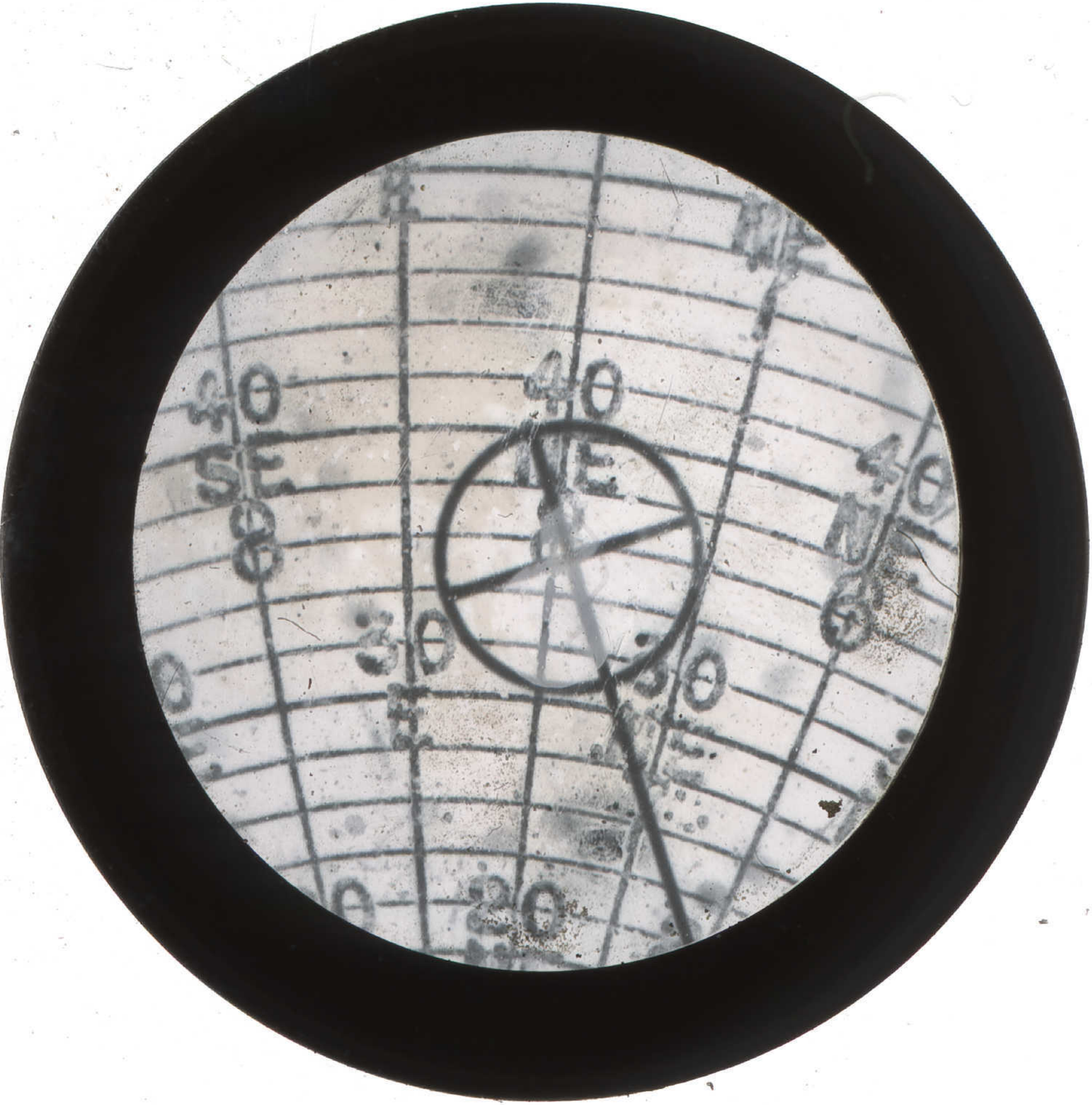
RUN BY G. GANDIE

DATE 2-22-00

CHECKED BY

sperry-sun

DRILLING SERVICES


40
SE
40
NE
40
N
30
30
30
20