60001162

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud Drill Hole File – Hole No. RS-D361-99
AUTHOR	[redacted]; K. Allen; D. Mackerrow; C. Ballew; L. Mackedon; R Vance
DATE OF DOC(S)	1999
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.; Newmont Gold Co.
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; photographs; total depth 240' receipt; handwritten notes; downhole camera images Down hole survey 50p. 3 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)

Revised: 1/22/08

	Initials	Date
SS:	DP	5/14/08
DB:	mah	
SCANNED:	NB	

RS-D361-99

60001162 4010

36

6000 1162

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

Hecla MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

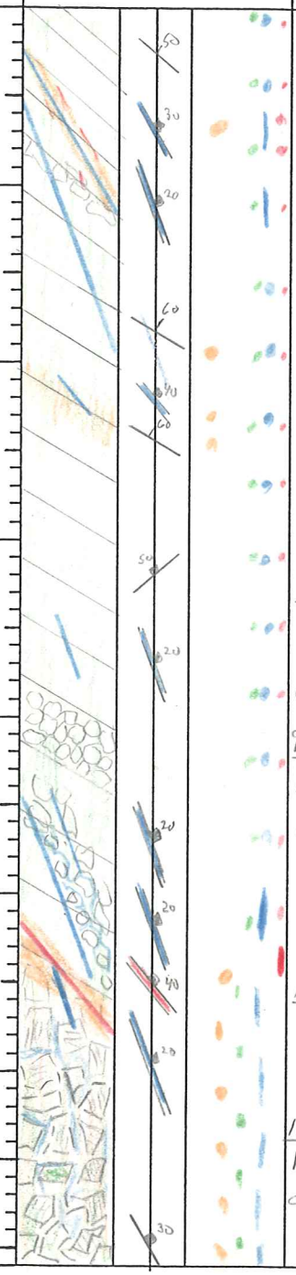
HOLE NUMBER RS-D361-99 | LOCATION Stope 12 Muck Bay | REMARKS
PAGE 1 OF 4 | NORTHING | Development hole
DATE 6-17-99 | EASTING
LOGGED BY D.G. MacKerron | ELEVATION
SCALE 1"=10' | AZIMUTH S 50 E
TOTAL DEPTH 240 | INCLINATION +12

LITH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
LST SPLAT	P	0-106.3 S.P.L.A.T. Green gray ash full Tuff. Fine grained with a Planar laminated texture Chlorite on fracture surface is Forest Green in color Calcite veins up to a foot wide are present with small calcite vein being numerous. Calcite is also ± py marcasite 16-35 Very fine textured Tuff Almost FGM. 42 Laminated texture becomes stronger and distinct	10 20 30 40 50		0-6.5 weak crackle bxu texture low expansion no rotation 6.5' 20° fcu Calcite Vein, Vein continues to 8.4' 0-16 Planar foliation is dis continuous v. 26-27 Fault zone with QTZ/calcite Vein up to 1' thick, Breccia clast on margins of QTZ/calcite vein 26-27 silica healed micro bxu 32-33 Faint auto breccia texture	6.5 Bladed marcasite and pyrite on boundary of calcite Vein 8-29 white clays on 30% of Fractures 17.5 BLEACHING/ Argillization begins with over printing of chloritic alteration 29-38 chloritic alteration 38.5-43 Argillization associated with calcite vein 40 - Three inch calcite vein 48-52 Dark marcasite Pyrite veinlet on fracture surfaces

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	A
0	5					
5	8.4					
8.4	11.6					
11.6	16					
16	21					
21	26					
26	29					
29	34					
34	38					
38	43					
43	48					
48	53					

HOLE NUMBER RS-D361-99 PAGE 2 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
LBT. SPLAT	R	0-106.3 S.PLAT Fine grain volcanics continue. Various intensity of green gray in color Calcite vein at 106' just above the contact.	50, 60, 70, 80, 90, 100, 110, 120		56-56.9 - white clay filled fracture zone associated with calcite vein 61.9 20° tca 2" calcite vein 85.5-98 Crackle breccia texture of both autobreccia and textonic. 98-101 Mosaic breccia with calcite veins 104.2 1" py/marc vein 106 Calcite vein has oblique slips on surface 60° tca	weak argillization continues to be associated with larger calcite vein 39 Argillization becomes more general though still low in intensity 106.3 Disseminated Pyrite at 1-3% 103.5-104.5 Sulfide vein with halo of Argillization 106.3-118 Matrix of breccia appears calcareous	48 53 56 58 61.5 65.5 69 74 78.4 83 88 93 98 101 103.5 104.5	53 56 58 61.5 65.5 69 74 78.4 83 88 93 98 101 103.5 104.5 106.3					
LBT Pink Matrix Bxa	R	106.3-240 PINK MATRIX BRECCIA Fine grained volcanic fragments in volcanic matrix. Matrix is not really pink at this time					106.3 111 115 118	111 115 118 122				

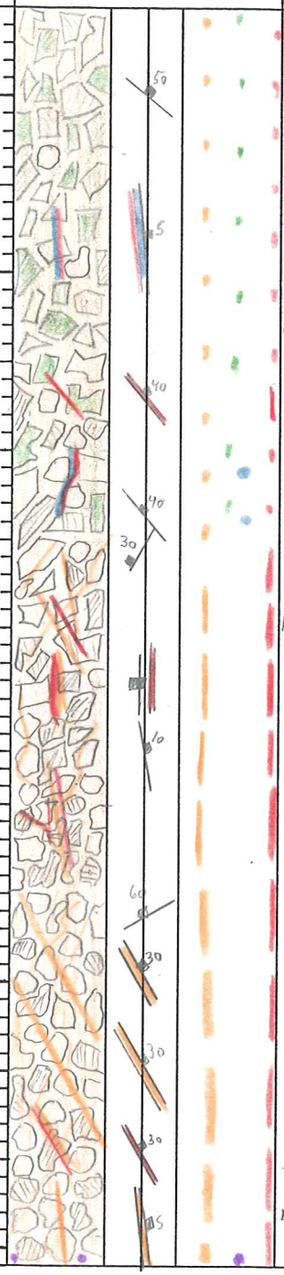
Pima 357 white clay

HOLE NUMBER RS-0361-99 PAGE 3 OF 4

LITH.	OX/RED.	LITHOLOGY
LBT PMB	R	106.3 → 240 PINK MATRIX BRECCIA Volcanic breccia continues 150-207 Faint chloritic alteration is over printed by argillization 157.5-159.5 Bladded Marcasite in white clay filled fracture. Open fracture is 0° tca, Marcasite is very dark in color. This would be very apparent in a face. The vein was on one ½ of the core Pino tested ILLITE/DICKITE MIX Pino 179 clay with rust 192-201 Major Core loss of 7' out of the 9. The missing zone may be similiar to the 190-192 zone Pino 174 white clay Both Pino samples tested as ILLITE (174 & 186.5) Pino yellow white clay 186.5

FT

GRAPHIC LOG

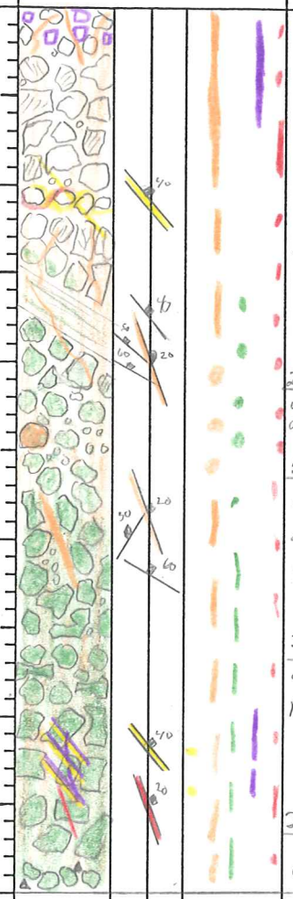


STRUCTURE	ALTERATION AND MINERALIZATION
118-139 Slight increase in fracture frequency 139 Fracturing increases as it approaches main mineralized area 157-204 Fracturing becomes very strong 157-202 This is the Main ore fracture zone. Main fracture orientations are high angle 0-20° tca. These fractures have the most clay and bladded marcasite. Core is not tectonically brecciated except 190-202 where most of the core was lost. 190-192 High Fractured Zone. Fault Zone Lost 190-202	132-134.1 5° tca calcite vein with bladed Bladded marcasite Vein runs 132.8-133.8 From 126.5 marcasite (10%) begins to increase on fractures 122 white clays begin to form on fractures. 142 ⅛" Black "sooty" sulfide on 40° tca fracture 148 calcite veinlets with bladed marc. 161.5 Pyrargyrite in fracture with bladded marcasite? 174 2" thick white clay vein greasy Dickite 186.5 "Ducks butter" 191-192 Barite crystal rubble

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	A
118	122					
122	126.5					
126.5	132					
132	134.1					
134.1	139					
139	143					
143	146.8					
146.8	151					
151	153					
153	157					
157	159.5					
159.5	163.9					
163.9	167.7					
167.7	170.5					
170.5	174					
174	178					
178	183					
183	188					
188	190					

HOLE NUMBER RS-D358-99 PAGE 4 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
LBT PMB	R	106.3-240 PINK MATRIX BRECCIA Auto brecciated volcanic continue * Sample 192-200 consist of rubble from lost core zone 7 of 9 feet were lost between 192-201, Rubble is ≃ 1.5' long 209-240 Breccia clast are all fine grained and show no planar laminate texture T.D. 240	190 200 210 220 230 240		206-208 Foliation @ 60° in narrow laminated section of core 209-213 Fractures increase with 20° to orientation cut by 50° and 60° Fx. 218-219.3 Narrow Fracture Zone with clay and dark muscovite 20° to main Fx orientation 223.5-224 open vugs along Fractures 70° to Bladded Marc. in Vugs 238-240 Crackle Breccia with clay on Fractures	200-201 Sulfide flooding in Fracture spaces. Sulfides are Pyrite. 190-200 Barite crystals in core Fragments and in rubble up to ¼" 204 Traces of chloritic alteration turn breccia clast pale green gray in Tan gray matrix 221-24 Chloritic alteration Increase and make core greener in color 229.5-235.3 Barite formed in Fractures and in veins 232.7-235.3 QTZ VEINS Present along with Barite.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	A
190	192					
192	200					
200	201					
201	204					
204	209					
209	213					
213	218					
218	219.3					
219.3	223.5					
223.5	226.1					
226.1	229.5					
229.5	232.7					
232.7	235.3					
235.3	238					
238	240					

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D361-99 DATE: 6-17-99 LOGGED BY: D.G. Mackenzie PAGE 1 OF 4

DRILL RUN		SOLID CORE	TOTAL CORE	ROD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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	8	100	100	58										
8	16	79	100	49										
16	23	93	100	36										
23	26	30	100	13										
26	27	0	80	0										
27	29	40	85	25										
29	35	66	100	15										
35	38	40	143	0										
38	48	90	100	66										
48	51	10	100	0										
51	58	90	106	66										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-D361-99 DATE: 6-17-99 LOGGED BY: D.G. MacHeron PAGE 2 OF 4

DRILL RUN		SOLID CORE	TOTAL CORE	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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)
58	67	72	94	40										
67	74	78	103	43										
74	83	95	100	54										
83	93	97	100	65										
93	103	97	100	74										
103	111	71	101	40										
111	118	100	100	73										
118	126.5	94	101	52										
126.5	133	100	100	60										
133	143	90	100	38										
143	153	100	100	33										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

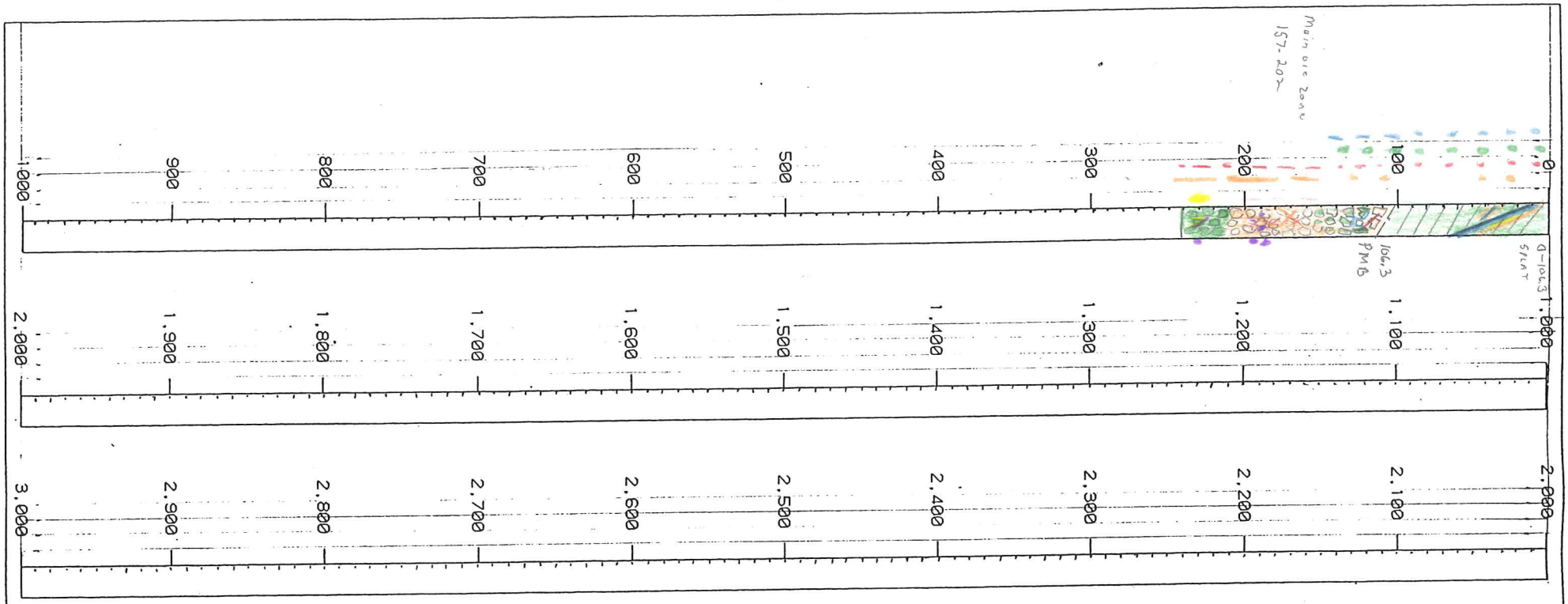
HOLE # RS-D361-99 DATE: 6-18-99 LOGGED BY: D.G. Mackerrow PAGE 3 OF 4

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)
153	163	74	100	23										
163	166.5	63	105	27										
166.5	169.5	27	100	0										
169.5	178	65	112	18										
178	188	76	100	31										
188	192	0	100	0										
192	201	0	22	0										
201	204	62	100	0										
204	208	100	97	15										
208	209	0	75	0										
209	218	100	100	42										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # RS-0358-99 DATE: 6-16-99 LOGGED BY: D.G. Mackerron PAGE 4 OF 4

DRILL RUN		SOLID CORE	TOTAL CORE	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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)
218	228	100	100	60										
228	238	100	100	50										
238	240	60	100	0										



LITHOLOGY

- PLAT/FLOW
- MASSIVE AT/FLOW
- LST -
- PMBX -
- TOS/Bud Epiclastics
- BMB - Rhyolitic Porphyry
- RHYOLITE - DOZER
- ALS - PHYLLITES

TEXTURES

- LITHIC FRAGMENTS
- CRYSTALS
- LAPILLI
- AMYGDULES
- SPHERULITE
- SHARDS

STRUCTURES

- BRECCIA
- FAULT
- CLAY OR GOUGE
- FRACTURE ZONE
- VEINS Qtz
- VEINLETS
- VEINS CALC

CONTACTS

- LOST, GRADATIONAL OR INFERRED
- 80 SHARP (WITH ANGLE TO CORE)
- WAVY
- ROUGH OR JAGGED

Calcite
PYRITIZATION
CHLORITIZATION
ARGILLIZATION
SILICIFICATION
GRAPHIC LOG
Barite

INTENSITY : ... --- ———

LOCATION ON GRID:	FINAL COLLAR COORDINATES	START 6/1/99	FINISH 6/2/99	LOGGED BY D.G. MacKerron
Stope 12 Muck Bay	NORTH			
LAB	EAST	HOLE TYPE Core	SURVEYED TO 240	
JOB #	ELEV	BEARING S 50 E	ANGLE +12	T. D. 240
DRILLING COMPANY Longyear	DRILLER Magoon			

The Rosebud Mining Company LLC

PAGE 1 OF 1

HOLE # RS-0361

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Nevada 89431
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Reno, NV 89510
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(520) 294-6352

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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 LLC

Address: _____

City Winnemucca State NV Zip 89445

Telephone Number: (775) 625-6912 Fax Number: ( ) _____

Project Name: STOPE 12 DEVELOPMENT Purchase Order Number: _____

Date Submitted: 6/22/99 Number of Samples: 64

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-D361-99	CORE	Au Ag as per Rosebud min.
Samples shown on attachment		grade control protocol

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 Rosebud Mine
Winnemucca

Results to:

Kurt Allen Rosebud Mine
Winnemucca

Comments:

CLIENT FILE COPY

RS-D361-99

Depth					Sample
From	To	Interval	Au	Ag	Number
0	5	5	x	x	1
5	8.4	3.4	x	x	2
8.4	11.6	3.2	x	x	3
11.6	16	4.4	x	x	4
16	21	5	x	x	5
21	26	5	x	x	6
26	29	3	x	x	7
29	34	5	x	x	8
34	38	4	x	x	9
38	43	5	x	x	10
43	48	5	x	x	11
48	53	5	x	x	12
53	56	3	x	x	13
56	58	2	x	x	14
58	61.5	3.5	x	x	15
61.5	65.5	4	x	x	16
65.5	69	3.5	x	x	17
69	74	5	x	x	18
74	78.4	4.4	x	x	19
78.4	83	4.6	x	x	20
83	88	5	x	x	21
88	93	5	x	x	22
93	98	5	x	x	23
98	101	3	x	x	24
101	103.5	2.5	x	x	25
103.5	104.5	1	x	x	26
104.5	106.3	1.8	x	x	27
106.3	111	4.7	x	x	28
111	115	4	x	x	29
115	118	3	x	x	30
118	122	4	x	x	31
122	126.5	4.5	x	x	32
126.5	132	5.5	x	x	33
132	134.1	2.1	x	x	34
134.1	139	4.9	x	x	35
139	143	4	x	x	36
143	146.8	3.8	x	x	37
146.8	151	4.2	x	x	38
151	153	2	x	x	39
153	157	4	x	x	40
157	159.5	2.5	x	x	41

159.5	163.9	4.4	x	x	42
163.9	167.7	3.8	x	x	43
167.7	170.5	2.8	x	x	44
170.5	174	3.5	x	x	45
174	178	4	x	x	46
178	183	5	x	x	47
183	188	5	x	x	48
188	190	2	x	x	49
190	192	2	x	x	50
192	200	8	x	x	51
200	201	1	x	x	52
201	204	3	x	x	53
204	209	5	x	x	54
209	213	4	x	x	55
213	218	5	x	x	56
218	219.3	1.3	x	x	57
219.3	223.5	4.2	x	x	58
223.5	226.1	2.6	x	x	59
226.1	229.5	3.4	x	x	60
229.5	232.7	3.2	x	x	61
232.7	235.3	2.6	x	x	62
235.3	238	2.7	x	x	63
238	240	2	x	x	64

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 0053934-IN
INVOICE DATE: 07/14/99

INVOICE TO:
THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610
WINNEMUCCA NV 89446

THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610
WINNEMUCCA NV 89446

CUSTOMER P.O.	PROJECT	TERMS
RS-0361-99	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
62	SAMPLES RECEIVED	.00	.00
62	DRYING	1.00	62.00
62	JAW CRUSHING CHARGE	1.30	80.60
62	COARSE MILLING CHARGE	4.50	279.00
62	SPLITTING CHARGE	2.40	148.80
62	RING MILLING CHARGE	2.00	124.00
62	Au (1 A.T. FIRE ASSAY)	8.00	496.00
62	HYDROCHLORIC/NITRIC DIGESTION	2.00	124.00
62	Ag ANALYSES	1.00	62.00

86-5110-477
BWM

NET INVOICE	1,376.40
LESS DISCOUNT	275.28
FREIGHT	.00
INVOICE TOTAL	1,101.12

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053934

American Assay Laboratories

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

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: RS-D361-99

No. SAMPLES : 62

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 24 JUN 1999

REPORTED : 13 JUL 1999

NEVADA LEGISLATIVE DISCLAIMER :-
The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

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

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053934

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D361-99 0-5	85		0.002		0.6	<0.02
RS-D361-99 5.0-8.4		SAMPLE NOT RECEIVED				
RS-D361-99 8.4-11.6	88		0.003		<0.5	<0.02
RS-D361-99 11.6-16.0		SAMPLE NOT RECEIVED				
RS-D361-99 16-21	146		0.004		0.8	0.02
RS-D361-99 21-26	124		0.004		1.6	0.05
RS-D361-99 26-29	145		0.004		<0.5	<0.02
RS-D361-99 29-34	12		<0.001		0.7	0.02
RS-D361-99 34-38	5		<0.001		<0.5	<0.02
RS-D361-99 38-43	162		0.005		0.7	0.02
RS-D361-99 43-48	<5		<0.001		<0.5	<0.02
RS-D361-99 48-53	36		0.001		0.7	0.02
RS-D361-99 53-56	34		<0.001		0.6	<0.02
RS-D361-99 56-58	109		0.003		0.6	<0.02
RS-D361-99 58.0-61.5	9		<0.001		<0.5	<0.02
RS-D361-99 61.5-65.5	11		<0.001		<0.5	<0.02
RS-D361-99 65.5-69.0	9		<0.001		<0.5	<0.02
RS-D361-99 69-74	215		0.006		7.8	0.23
RS-D361-99 74.0-78.4	15		<0.001		0.8	0.02
RS-D361-99 78.4-83.0	199		0.006		2.1	0.06
RS-D361-99 83-88	<5		<0.001		<0.5	<0.02
RS-D361-99 88-93	6		<0.001		<0.5	<0.02
RS-D361-99 93-98	188		0.005		0.6	<0.02
RS-D361-99 98-101	382		0.011		0.7	0.02
RS-D361-99 101.0-103.5	78		0.002		1.6	0.05

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053934

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D361-99 103.5-104.5	16		<0.001		<0.5	<0.02
RS-D361-99 104.5-106.3	766		0.022		0.5	<0.02
RS-D361-99 106.3-111.0	68		0.002		0.7	0.02
RS-D361-99 111-115	45		0.001		<0.5	<0.02
RS-D361-99 115-118	159		0.005		0.9	0.03
RS-D361-99 118-122	22	26	<0.001	<0.001	0.6	<0.02
RS-D361-99 122.0-126.5	132		0.004		0.7	0.02
RS-D361-99 126.5-132.0	617		0.018		3.2	0.09
RS-D361-99 132.0-134.1	1261		0.037		7.3	0.21
RS-D361-99 134.1-139.0	188		0.005		2.5	0.07
RS-D361-99 139-143	583		0.017		3.8	0.11
RS-D361-99 143.0-146.8	442		0.013		2.8	0.08
RS-D361-99 146.8-151.0	250		0.007		4.3	0.13
RS-D361-99 151-153	11650	11999	0.340	0.350	14.3	0.42
RS-D361-99 153-157	5485		0.160		21.4	0.62
RS-D361-99 157.0-159.5	68134	65684	1.987	1.916	126.4	3.69
RS-D361-99 159.5-163.9	3908		0.114		8.4	0.25
RS-D361-99 163.9-167.7	10285		0.300		136.8	3.99
RS-D361-99 167.7-170.5	14920		0.435		47.7	1.39
RS-D361-99 170.5-174.0	5410		0.158		12.2	0.36
RS-D361-99 174-178	6660	6514	0.194	0.190	14.2	0.41
RS-D361-99 178-183	1994		0.058		9.9	0.29
RS-D361-99 183-188	1540		0.045		4.8	0.14
RS-D361-99 188-190	205		0.006		2.3	0.07
RS-D361-99 190-192	284		0.008		4.2	0.12

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053934

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D361-99 192-200	323		0.009		3.8	0.11
RS-D361-99 200-201	1423		0.042		13.1	0.38
RS-D361-99 201-204	234		0.007		3.7	0.11
RS-D361-99 204-209	237		0.007		3.3	0.10
RS-D361-99 209-213	136		0.004		2.2	0.06
RS-D361-99 213-218	144		0.004		2.6	0.08
RS-D361-99 218.0-219.3	145		0.004		4.2	0.12
RS-D361-99 219.3-223.5	143		0.004		2.4	0.07
RS-D361-99 223.5-226.1	70		0.002		1.4	0.04
RS-D361-99 226.1-229.5	89		0.003		2.5	0.07
RS-D361-99 229.5-232.7	142		0.004		2.2	0.06
RS-D361-99 232.7-235.3	56		0.002		1.3	0.04
RS-D361-99 235.3-238.0	89		0.003		2.0	0.06
RS-D361-99 238-240	122		0.004		1.7	0.05

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053934

American Assay Laboratories

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

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

CLIENT REFERENCE No: RS-D361-99 RECEIVED : 24 JUN 1999

No. SAMPLES : 62 REPORTED : 13 JUL 1999

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	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053934

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D361-99 0-5	85		0.002		0.6	<0.02
RS-D361-99 5.0-8.4		SAMPLE NOT RECEIVED				
RS-D361-99 8.4-11.6	88		0.003		<0.5	<0.02
RS-D361-99 11.6-16.0		SAMPLE NOT RECEIVED				
RS-D361-99 16-21	146		0.004		0.8	0.02
RS-D361-99 21-26	124		0.004		1.6	0.05
RS-D361-99 26-29	145		0.004		<0.5	<0.02
RS-D361-99 29-34	12		<0.001		0.7	0.02
RS-D361-99 34-38	5		<0.001		<0.5	<0.02
RS-D361-99 38-43	162		0.005		0.7	0.02
RS-D361-99 43-48	<5		<0.001		<0.5	<0.02
RS-D361-99 48-53	36		0.001		0.7	0.02
RS-D361-99 53-56	34		<0.001		0.6	<0.02
RS-D361-99 56-58	109		0.003		0.6	<0.02
RS-D361-99 58.0-61.5	9		<0.001		<0.5	<0.02
RS-D361-99 61.5-65.5	11		<0.001		<0.5	<0.02
RS-D361-99 65.5-69.0	9		<0.001		<0.5	<0.02
RS-D361-99 69-74	215		0.006		7.8	0.23
RS-D361-99 74.0-78.4	15		<0.001		0.8	0.02
RS-D361-99 78.4-83.0	199		0.006		2.1	0.06
RS-D361-99 83-88	<5		<0.001		<0.5	<0.02
RS-D361-99 88-93	6		<0.001		<0.5	<0.02
RS-D361-99 93-98	188		0.005		0.6	<0.02
RS-D361-99 98-101	382		0.011		0.7	0.02
RS-D361-99 101.0-103.5	78		0.002		1.6	0.05

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP053934

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D361-99 103.5-104.5	16		<0.001		<0.5	<0.02
RS-D361-99 104.5-106.3	766		0.022		0.5	<0.02
RS-D361-99 106.3-111.0	68		0.002		0.7	0.02
RS-D361-99 111-115	45		0.001		<0.5	<0.02
RS-D361-99 115-118	159		0.005		0.9	0.03
RS-D361-99 118-122	22	26	<0.001	<0.001	0.6	<0.02
RS-D361-99 122.0-126.5	132		0.004		0.7	0.02
RS-D361-99 126.5-132.0	617		0.018		3.2	0.09
RS-D361-99 132.0-134.1	1261		0.037		7.3	0.21
RS-D361-99 134.1-139.0	188		0.005		2.5	0.07
RS-D361-99 139-143	583		0.017		3.8	0.11
RS-D361-99 143.0-146.8	442		0.013		2.8	0.08
RS-D361-99 146.8-151.0	250		0.007		4.3	0.13
RS-D361-99 151-153	11650	11999	0.340	0.350	14.3	0.42
RS-D361-99 153-157	5485		0.160		21.4	0.62
RS-D361-99 157.0-159.5	68134	65684	1.987	1.916	126.4	3.69
RS-D361-99 159.5-163.9	3908		0.114		8.4	0.25
RS-D361-99 163.9-167.7	10285		0.300		136.8	3.99
RS-D361-99 167.7-170.5	14920		0.435		47.7	1.39
RS-D361-99 170.5-174.0	5410		0.158		12.2	0.36
RS-D361-99 174-178	6660	6514	0.194	0.190	14.2	0.41
RS-D361-99 178-183	1994		0.058		9.9	0.29
RS-D361-99 183-188	1540		0.045		4.8	0.14
RS-D361-99 188-190	205		0.006		2.3	0.07
RS-D361-99 190-192	284		0.008		4.2	0.12

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP0053934

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-D361-99 192-200	323		0.009		3.8	0.11
RS-D361-99 200-201	1423		0.042		13.1	0.38
RS-D361-99 201-204	234		0.007		3.7	0.11
RS-D361-99 204-209	237		0.007		3.3	0.10
RS-D361-99 209-213	136		0.004		2.2	0.06
RS-D361-99 213-218	144		0.004		2.6	0.08
RS-D361-99 218.0-219.3	145		0.004		4.2	0.12
RS-D361-99 219.3-223.5	143		0.004		2.4	0.07
RS-D361-99 223.5-226.1	70		0.002		1.4	0.04
RS-D361-99 226.1-229.5	89		0.003		2.5	0.07
RS-D361-99 229.5-232.7	142		0.004		2.2	0.06
RS-D361-99 232.7-235.3	56		0.002		1.3	0.04
RS-D361-99 235.3-238.0	89		0.003		2.0	0.06
RS-D361-99 238-240	122		0.004		1.7	0.05

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053934

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

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW

: R. VANCE

: K. ALLEN

:

CLIENT REFERENCE No: RS-D361-99 RECEIVED : 24 JUN 1999

No. SAMPLES : 62 REPORTED : 13 JUL 1999

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	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S. Page : 1

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053934

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D361-99 0-5	85		0.002		0.6	<0.02
RS-D361-99 5.0-8.4	SAMPLE NOT RECEIVED					
RS-D361-99 8.4-11.6	88		0.003		<0.5	<0.02
RS-D361-99 11.6-16.0	SAMPLE NOT RECEIVED					
RS-D361-99 16-21	146		0.004		0.8	0.02
RS-D361-99 21-26	124		0.004		1.6	0.05
RS-D361-99 26-29	145		0.004		<0.5	<0.02
RS-D361-99 29-34	12		<0.001		0.7	0.02
RS-D361-99 34-38	5		<0.001		<0.5	<0.02
RS-D361-99 38-43	162		0.005		0.7	0.02
RS-D361-99 43-48	<5		<0.001		<0.5	<0.02
RS-D361-99 48-53	36		0.001		0.7	0.02
RS-D361-99 53-56	34		<0.001		0.6	<0.02
RS-D361-99 56-58	109		0.003		0.6	<0.02
RS-D361-99 58.0-61.5	9		<0.001		<0.5	<0.02
RS-D361-99 61.5-65.5	11		<0.001		<0.5	<0.02
RS-D361-99 65.5-69.0	9		<0.001		<0.5	<0.02
RS-D361-99 69-74	215		0.006		7.8	0.23
RS-D361-99 74.0-78.4	15		<0.001		0.8	0.02
RS-D361-99 78.4-83.0	199		0.006		2.1	0.06
RS-D361-99 83-88	<5		<0.001		<0.5	<0.02
RS-D361-99 88-93	6		<0.001		<0.5	<0.02
RS-D361-99 93-98	188		0.005		0.6	<0.02
RS-D361-99 98-101	382		0.011		0.7	0.02
RS-D361-99 101.0-103.5	78		0.002		1.6	0.05

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053934

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D361-99 103.5-104.5	16		<0.001		<0.5	<0.02
RS-D361-99 104.5-106.3	766		0.022		0.5	<0.02
RS-D361-99 106.3-111.0	68		0.002		0.7	0.02
RS-D361-99 111-115	45		0.001		<0.5	<0.02
RS-D361-99 115-118	159		0.005		0.9	0.03
RS-D361-99 118-122	22	26	<0.001	<0.001	0.6	<0.02
RS-D361-99 122.0-126.5	132		0.004		0.7	0.02
RS-D361-99 126.5-132.0	617		0.018		3.2	0.09
RS-D361-99 132.0-134.1	1261		0.037		7.3	0.21
RS-D361-99 134.1-139.0	188		0.005		2.5	0.07
RS-D361-99 139-143	583		0.017		3.8	0.11
RS-D361-99 143.0-146.8	442		0.013		2.8	0.08
RS-D361-99 146.8-151.0	250		0.007		4.3	0.13
RS-D361-99 151-153	11650	11999	0.340	0.350	14.3	0.42
RS-D361-99 153-157	5485		0.160		21.4	0.62
RS-D361-99 157.0-159.5	68134	65684	1.987	1.916	126.4	3.69
RS-D361-99 159.5-163.9	3908		0.114		8.4	0.25
RS-D361-99 163.9-167.7	10285		0.300		136.8	3.99
RS-D361-99 167.7-170.5	14920		0.435		47.7	1.39
RS-D361-99 170.5-174.0	5410		0.158		12.2	0.36
RS-D361-99 174-178	6660	6514	0.194	0.190	14.2	0.41
RS-D361-99 178-183	1994		0.058		9.9	0.29
RS-D361-99 183-188	1540		0.045		4.8	0.14
RS-D361-99 188-190	205		0.006		2.3	0.07
RS-D361-99 190-192	284		0.008		4.2	0.12

AMERICAN ASSAY LABORATORIES

PROVISTONAL REPORT SP053934

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D361-99

REPORTED : 13 JUL 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(R7)	Ag	Ag(OZ)
RS-D361-99 192-200	323		0.009		3.8	0.11
RS-D361-99 200-201	1423		0.042		13.1	0.38
RS-D361-99 201-204	234		0.007		3.7	0.11
RS-D361-99 204-209	237		0.007		3.3	0.10
RS-D361-99 209-213	136		0.004		2.2	0.06
RS-D361-99 213-218	144		0.004		2.6	0.08
RS-D361-99 218.0-219.3	145		0.004		4.2	0.12
RS-D361-99 219.3-223.5	143		0.004		2.4	0.07
RS-D361-99 223.5-226.1	70		0.002		1.4	0.04
RS-D361-99 226.1-229.5	89		0.003		2.5	0.07
RS-D361-99 229.5-232.7	142		0.004		2.2	0.06
RS-D361-99 232.7-235.3	56		0.002		1.3	0.04
RS-D361-99 235.3-238.0	89		0.003		2.0	0.06
RS-D361-99 238-240	122		0.004		1.7	0.05

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053934

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

NEWMONT GOLD COMPANY

COPIES TO : C. BAILEY
: R. VANCE
:
:

CLIENT REFERENCE No: RS-D351-99 RECEIVED : 24 JUN 1999

No. SAMPLES : 62 REPORTED : 6 JUL 1999

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	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053934

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D361-99

REPORTED : 6 JUL 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D361-99 0-5	85		0.002			
RS-D361-99 5.0-8.4	SAMPLE NOT RECEIVED					
RS-D361-99 8.4-11.6	88		0.003			
RS-D361-99 11.6-16.0	SAMPLE NOT RECEIVED					
RS-D361-99 16-21	146		0.004			
RS-D361-99 21-26	124		0.004			
RS-D361-99 26-29	145		0.004			
RS-D361-99 29-34	12		<0.001			
RS-D361-99 34-38	5		<0.001			
RS-D361-99 38-43	162		0.005			
RS-D361-99 43-48	<5		<0.001			
RS-D361-99 48-53	36		0.001			
RS-D361-99 53-56	34		<0.001			
RS-D361-99 56-58	109		0.003			
RS-D361-99 58.0-61.5	9		<0.001			
RS-D361-99 61.5-65.5	11		<0.001			
RS-D361-99 65.5-69.0	9		<0.001			
RS-D361-99 69-74	215		0.006			
RS-D361-99 74.0-78.4	15		<0.001			
RS-D361-99 78.4-83.0	199		0.006			
RS-D361-99 83-88	<5		<0.001			
RS-D361-99 88-93	6		<0.001			
RS-D361-99 93-98	188		0.005			
RS-D361-99 98-101	382		0.011			
RS-D361-99 101.0-103.5	78		0.002			

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP053934

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D361-99

REPORTED : 6 JUL 1999

SAMPLES		Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)	
RS-D361-99 103.5-104.5		16		<0.001				
RS-D361-99 104.5-106.3		766		0.022				
RS-D361-99 106.3-111.0		68		0.002				
RS-D361-99 111-115		45		0.001				
RS-D361-99 115-118		159		0.005				
RS-D361-99 118-122		22	26	<0.001	<0.001			
RS-D361-99 122.0-126.5		132		0.004				
RS-D361-99 126.5-132.0		617		0.018				
RS-D361-99 132.0-134.1		1261		0.037				
RS-D361-99 134.1-139.0		188		0.005				
RS-D361-99 139-143		583		0.017				151-178' = 27'
RS-D361-99 143.0-146.8		442		0.013				
RS-D361-99 146.8-151.0		250		0.007				
RS-D361-99 151-153	2	11650	11999	0.340	0.350			
RS-D361-99 153-157	4	5485		0.160				
RS-D361-99 157.0-159.5	2.5	68134	65684	1.987	1.916			0.388
RS-D361-99 159.5-163.9	4.4	3908		0.114				
RS-D361-99 163.9-167.7	3.8	10285		0.300				
RS-D361-99 167.7-170.5	2.8	14920		0.435				
RS-D361-99 170.5-174.0	3.5	5410		0.158				
RS-D361-99 174-178	4	6660	6514	0.194	0.190			
RS-D361-99 178-183		1994		0.058				
RS-D361-99 183-188		1540		0.045				
RS-D361-99 188-190		205		0.006				
RS-D361-99 190-192		284		0.008				

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP0053934

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-D361-99

REPORTED : 6 JUL. 1999

SAMPLES	Au	Au(R)	Au(OZ)	Au(RZ)	Ag	Ag(OZ)
RS-D361-99 192-200	323		0.009			
RS-D361-99 200-201	1423		0.042			
RS-D361-99 201-204	234		0.007			
RS-D361-99 204-209	237		0.007			
RS-D361-99 209-213	136		0.004			
RS-D361-99 213-218	144		0.004			
RS-D361-99 218.0-219.3	145		0.004			
RS-D361-99 219.3-223.5	143		0.004			
RS-D361-99 223.5-226.1	70		0.002			
RS-D361-99 226.1-229.5	89		0.003			
RS-D361-99 229.5-232.7	142		0.004			
RS-D361-99 232.7-235.3	56		0.002			
RS-D361-99 235.3-238.0	89		0.003			
RS-D361-99 238-240	122		0.004			

Down Hole Survey Data
RS-D361-99

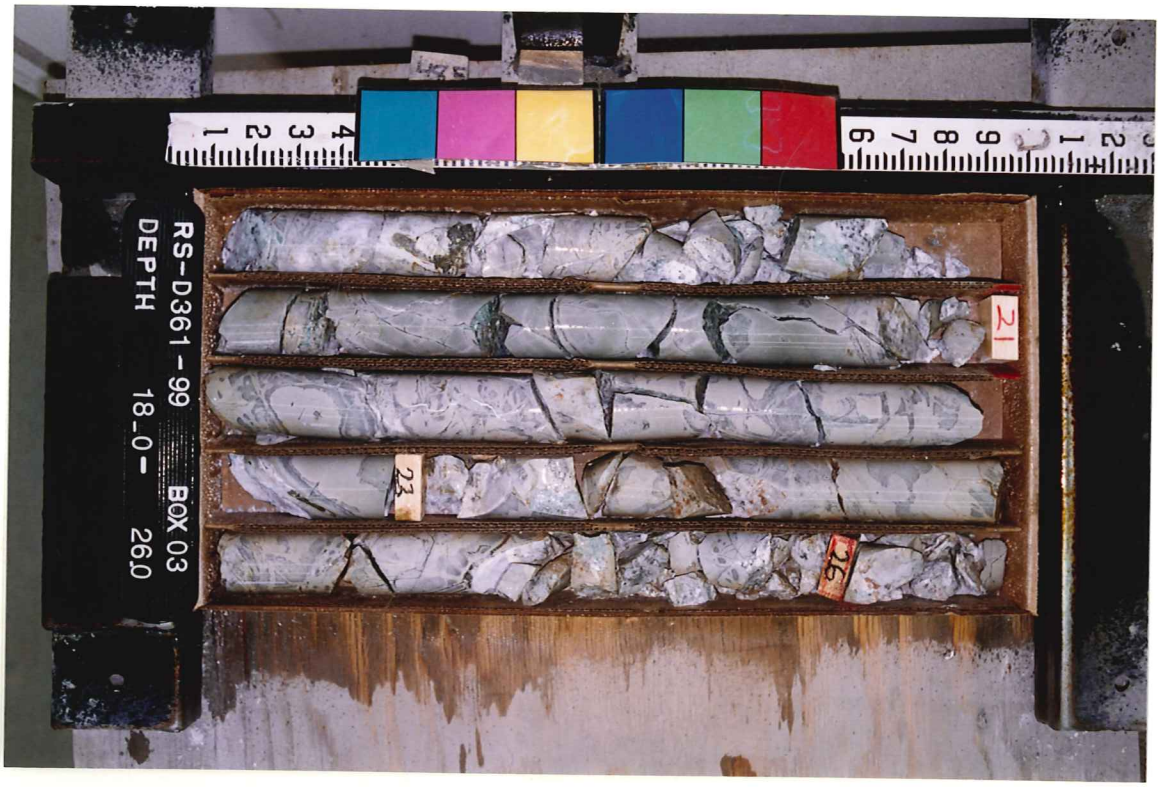
Footage	Measured Bearing	Corrected Azimuth -15.66	Measured Inclination	Calculated Dip
50	66.5	129.2	102.25	12.3
240	70	125.7	101.75	11.8

STP12DHS.CR5 06/16/99 07:29:41

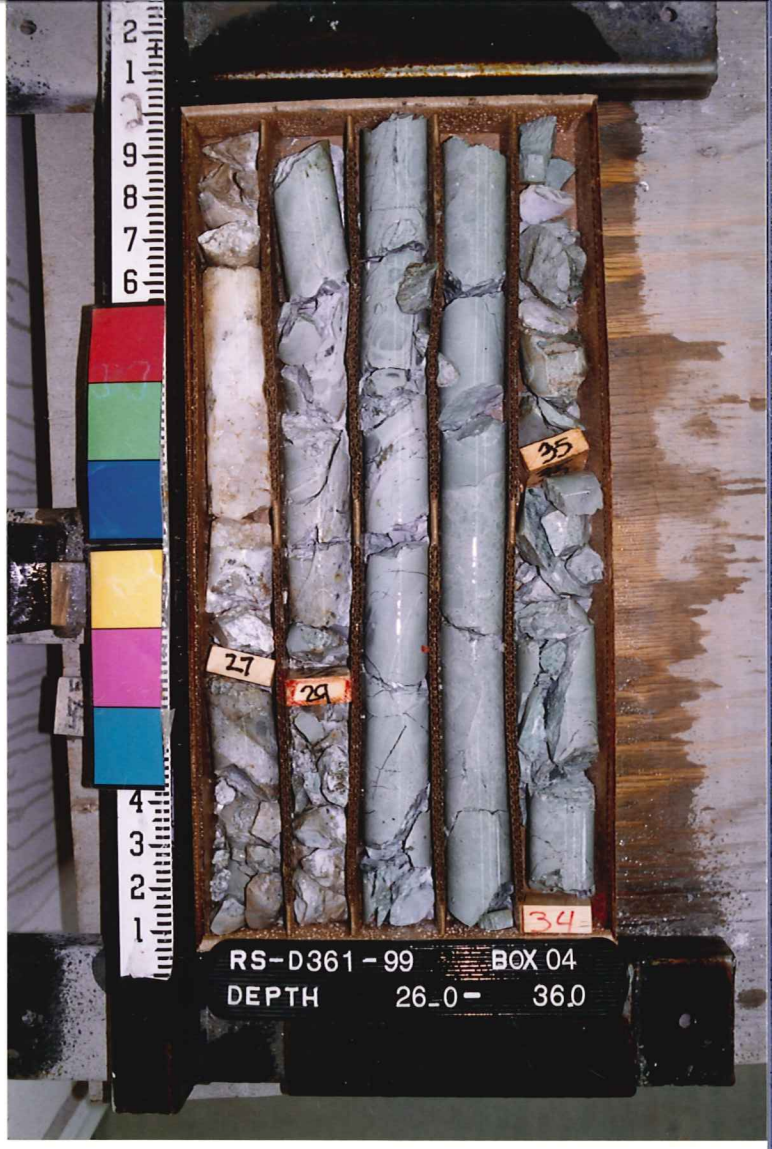
Point	Northing	Easting	Elevation	Description
1	2,203,479.1600	480,781.6720	4,995.91	D7BS
66	2,203,433.7954	480,885.0276	4,974.03	D360
67	2,203,431.1858	480,881.9507	4,974.17	D361
68	2,203,429.4616	480,880.5097	4,974.10	D362

RS-D361-99 BOX 02
DEPTH 9_5- 18.0

RS-D361-99 BOX 01
DEPTH 0_0- 9.5


RS-D361-99 BOX 03
DEPTH 18_0- 26.0

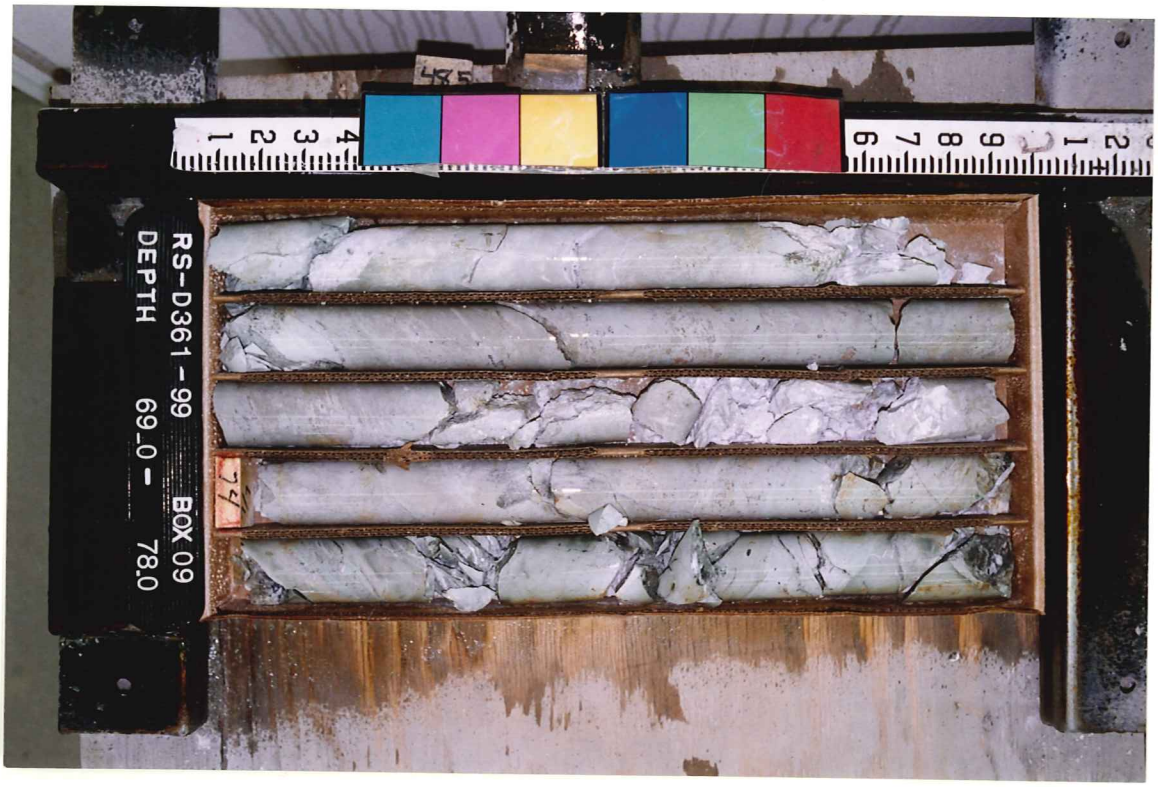
RS-D361-99 BOX 05
DEPTH 36_0- 43.0
43
38


RS-D361-99 BOX 04
DEPTH 26_0- 36.0
35
34
27
29

RS-D361-99 BOX 06
DEPTH 43_0- 51.0

RS-D361-99 BOX 08
DEPTH 59_5- 69.0

RS-D361-99 BOX 07
DEPTH 51_0- 59.5


RS-D361-99 BOX 09
DEPTH 69_0- 78.0

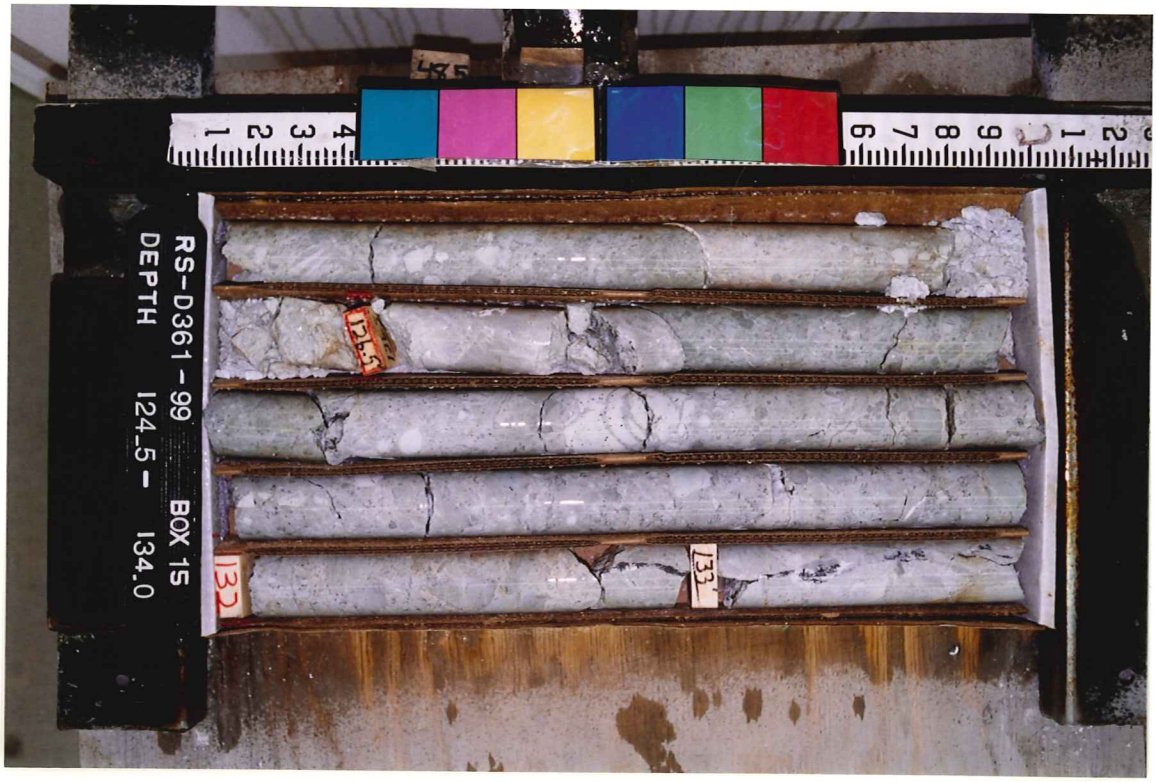
88
93
RS-D361-99 BOX 11
DEPTH 87.0 - 96.0

83
RS-D361-99 BOX 10
DEPTH 78.0 - 87.0

98
103
103.5
104.5
RS-D361-99 BOX 12
DEPTH 96.0 - 106.0

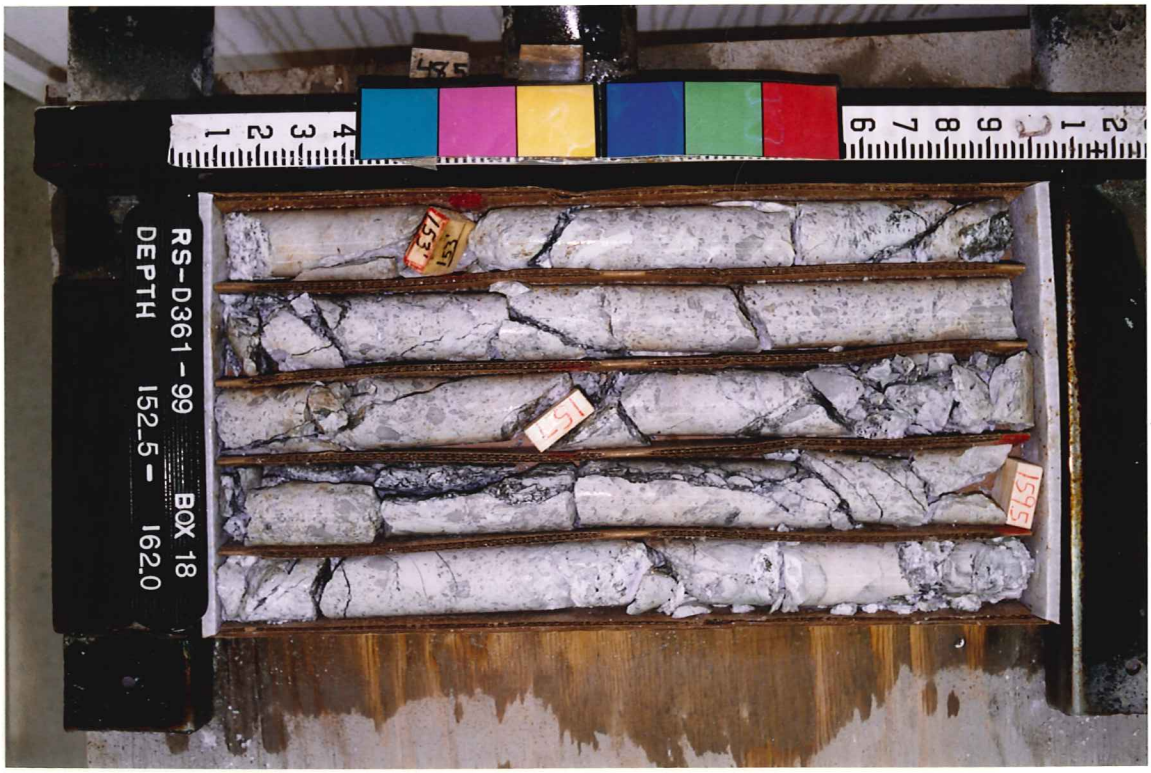
RS-D361-99 BOX 14
DEPTH 115.0 - 124.5

RS-D361-99 BOX 13
DEPTH 106.0 - 115.0


RS-D361-99 BOX 15
DEPTH 124.5 - 134.0

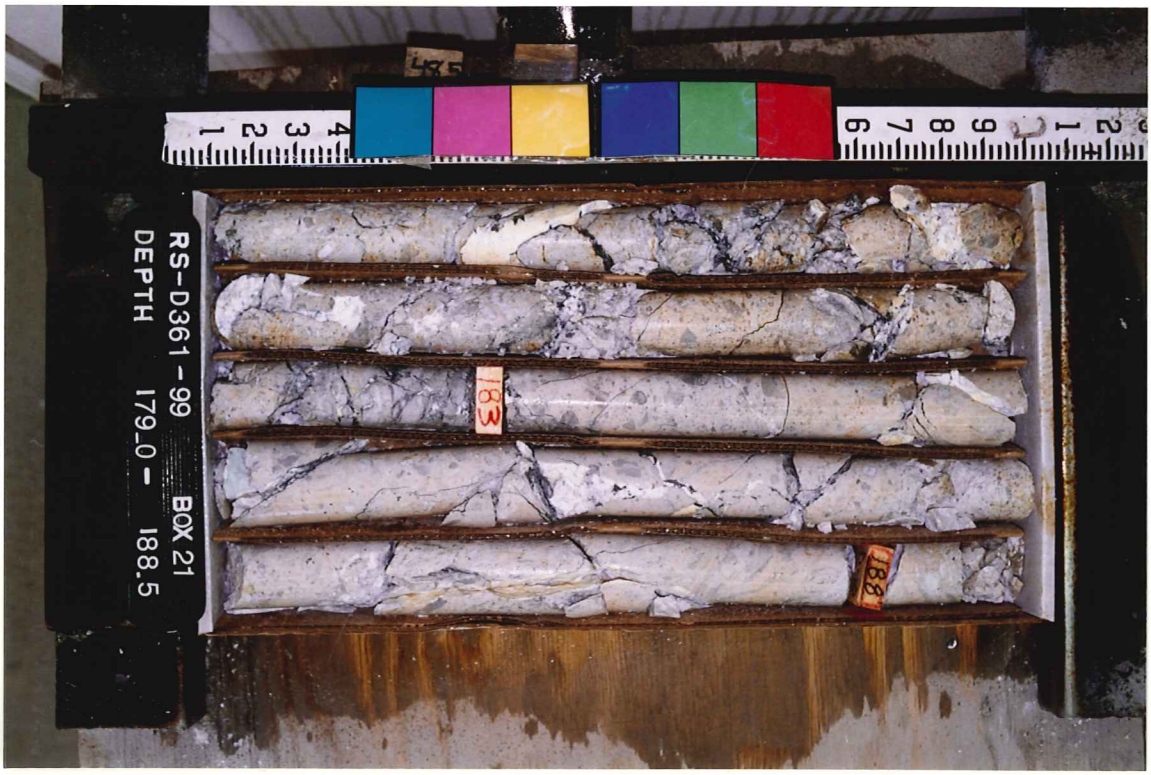
146.8
151
RS-D361-99 BOX 17
DEPTH 143_0 - 152.5

143
D-10
R-10
139
134.1
RS-D361-99 BOX 16
DEPTH 134_0 - 143.0


RS-D361-99 BOX 18
DEPTH 152_5 - 162.0

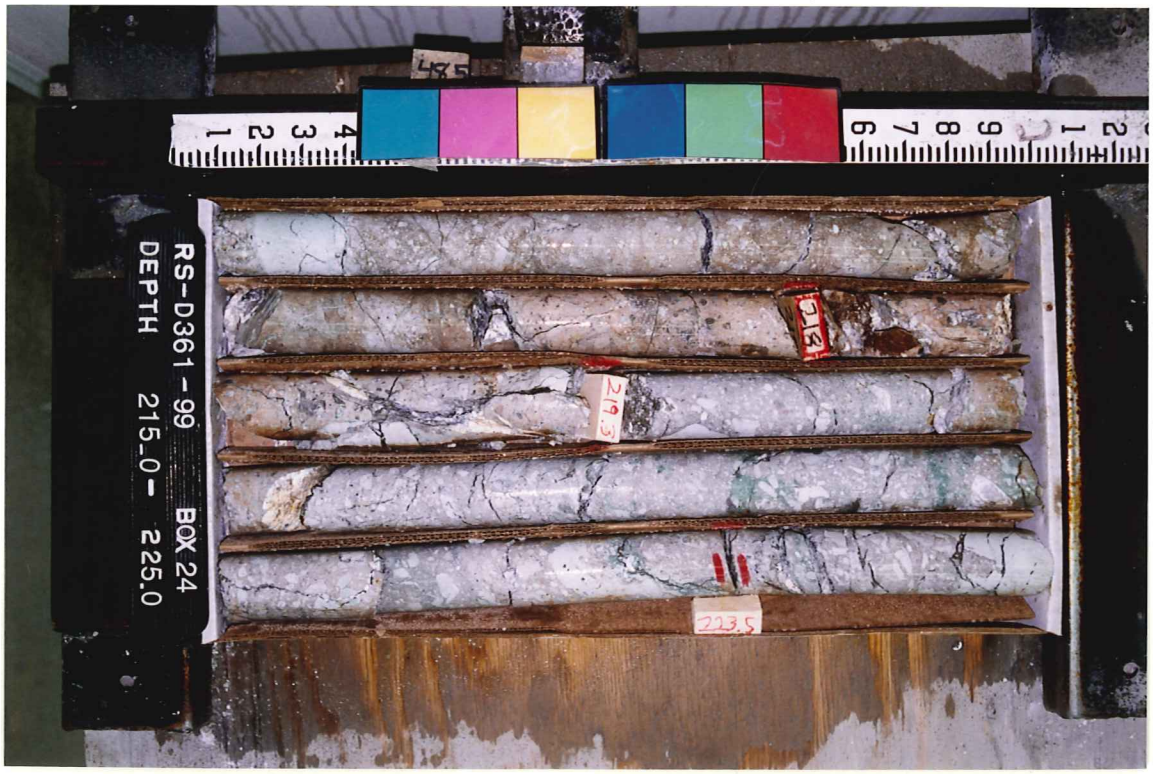
RS-D361-99 BOX 20
DEPTH 170_5 - 179.0
174
178

RS-D361-99 BOX 19
DEPTH 162_0 - 170.5
170.5
167.7
169.5
163.9


RS-D361-99 BOX 21
DEPTH 179_0 - 188.5
183
188

208
209
213
RS-D361-99 BOX 23
DEPTH 205.0- 215.0

190
192
204
200
201
RS-D361-99 BOX 22
DEPTH 188.5- 205.0


218
219.5
223.5
RS-D361-99 BOX 24
DEPTH 215.0- 225.0

235.3
TD
240
239
RS-D361-99 BOX 26
DEPTH 234.0- 240.0

226.1
228
229.5
232.7
RS-D361-99 BOX 25
DEPTH 225.0- 234.0

WELL RSD36199

DEPTH 50

PICTURE NO. _____

INCLINATION _____

OBS. DIR. _____

COR. DIR. _____

TOOL FACE _____

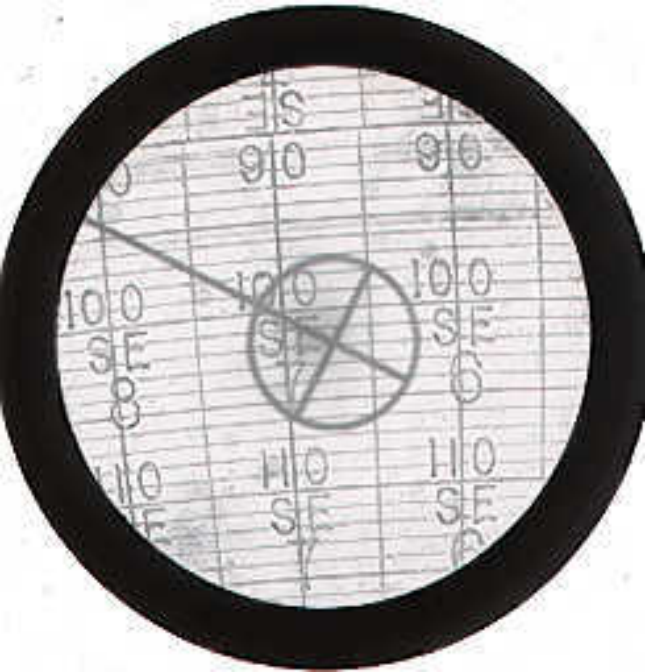
RUN BY Magnav

DATE 12-2-99

CHECKED BY _____

sperry-sun
DRILLING SERVICES

Duplicate


S
90
100
SE
110
S
90
100
SE
110
S
90
100
SE
110

WELL ESD36199

DEPTH 240

PICTURE NO. _____

INCLINATION _____

OBS. DIR. _____

COR. DIR. _____

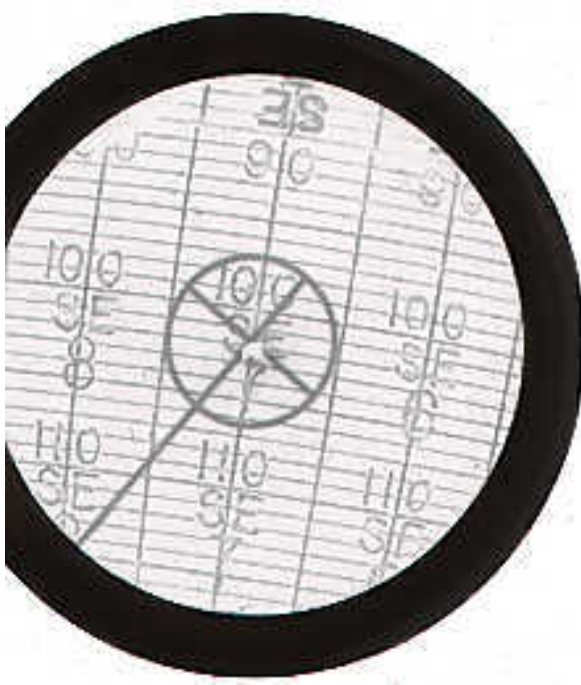
TOOL FACE _____

RUN BY Magoon

DATE 6-2-99

CHECKED BY _____

sperry-sun
DRILLING SERVICES



WELL RS-D361-99

DEPTH 50' (Collar)

PICTURE NO. _____

INCLINATION +12.25

OBS. DIR. SC6E

COR. DIR. _____

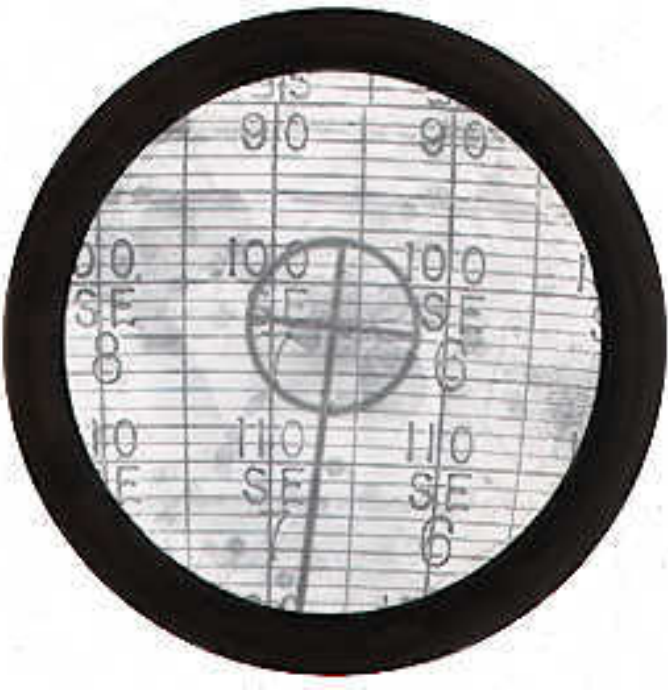
TOOL FACE _____

RUN BY Rogers

DATE 6-2-99

CHECKED BY _____

sperry-sun
DRILLING SERVICES


90
90
100
100
SE
SE
110
110
SE
SE