

DISTRICT	Rosebud
DIST_NO	4010
COUNTY	Pershing
If different from written on document	
TITLE	Rosebud Drill Hole File - Hole No. RS-D365-99
If not obvious	
AUTHOR	K Allen; D. Francisco
DATE OF DOC(S)	1999
MULTI_DIST	<input checked="" type="checkbox"/> 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	gold; silver
If not obvious	
NOTES	Drill log; geology; assay; geochemistry; total depth 974' receipt; handwritten notes; downhole camera images photographs; down hole survey
	106 p. 5 down hole camera images

Keep docs at about 250 pages if no oversized maps attached  
(for every 1 oversized page (>11x17) with text reduce  
the amount of pages by ~25)

SS: DD 5/12/68  
Initials Date

DB: Mah  
Initials Date

SCANNED: Initials Date

RS-D 365-99

Missing 1-16  
Photos

365

6000 0925

# Hecla MINING COMPANY

## ROSEBUD PROJECT DIAMOND DRILL LOG

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

6000 0925

HOLE NUMBER RS-D365-94 LOCATION STOP 25 MUCKBAY  
 PAGE 1 OF 15 NORTHING \_\_\_\_\_  
 DATE 10/11/94 EASTING \_\_\_\_\_  
 LOGGED BY KAA ELEVATION \_\_\_\_\_  
 SCALE 1"=10' AZIMUTH \_\_\_\_\_  
 TOTAL DEPTH 974 INCLINATION \_\_\_\_\_

LITH	OX/ RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
		0-50.7' - TOS EPICLASTIC				0-17' - Propylitically act w/minor disseminated pyrite.	0	7				
		0-17' - FINE TO COARSE-GRAINED, CLAST SUPPORTED W/ MINOR MATRIX SUPPORTED, HETEROCLISTIC. EPICLASTIC BRECCIA. CLASTS ARE COARSE SAND TO LAPILLI IN SIZE, SUB-ROUNDED, AND CONSIST OF FINE-GRAINED- Aphanitic DOLERITE (MASSIVE & FLOW BANDED) DOMINATED W/ MINOR AUS PHYLITE CLASTS.	10		@ 21.7' - SMALL POSSIBLE BEDDING PLANE FAULT @ 50° TO EA.	17-20.7' - chloritically alt vitrophyre w/increasing silica.	7	12				
		17-20.7' LAPILLI TO BLOCK SIZED CLASTS OF VITROPHYRE W/ MINOR SILICA.	20			21.7-23' - SEVERAL CLASTS ARE SILICIFIED SHOWING ARGILLIZED LIMS & SiO2 ODEREDS	12	17				
		20.7-50.7' - LAPILLI SIZED CLASTS, CLAST SUPPORTED HETEROCLISTIC, EPICLASTIC BX.	30			23-32' - Prop/Chlor ALTERED W/ MINOR SiO2 ± PYRITE/MARC THIN FEATHERED C 0-20° TO EA.	17	20.7				
			40			32-42.7' - ZONE OF MINOR TO MODERATE OPEN SPACE FRACTURES/ZONES W/ QUARTZ, CACO3 & PYRITE, YM MARCASITE	20.7	21.7				
			50			42.7-44.5' - RARE ZONE W/ INTENSE OPEN SPACE (ALL MATRIX IS GONE) W/ QZ & KFLS, CACO3 KFLS, MARCASITE BLADES, & PYRITE.	21.7	23				
						44.5-46.4' - SAME AS 32-42.7'	23	27				
						46.4-47.6' - SAME AS 42.7-44.5'	32	37				
						47.6-50.7' - CHL/PROP ACT W/ PYRITE DISSEMINATIONS	37	42.7				
						47.6	50.7					

LTH.	OX RED. LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
						FROM	TO	W	Au	Ag	Au2
	50.7 - 62' - TOS - ASH Flow tuff COARSE SANDS TO LAPILLI SIZE ASH FLOW TUFF Propylitized.				Propylitic / Chloritic alt.	50.7	57				
	62-79.1' - Interbedded TOS Epiclastic Fine- to Coarse grained SAND size particles & TOS ASH flow tuffs.					57	62				
	79.1-97.3' - TOS - COARSE SANDS TO LAPILLI SIZE CLASTS. Clasts are sub-rounded & a distinct INCREASE of ALS phyllite clasts is observed (5-10% ALC)					62	67				
	97.3'-102' - TOS Epiclastic w/ ABUNDANT ALS FRAGS. MATRIX of the Epiclastic IS Gray due to the content of Graphitic material.					67	72				
	102-148.1' - TOS Epiclastic. LAPILLI to Block sized clasts, clast supported, w/common ALS fragments.					72	77				
						77	82				
						82	87				
					92-97.3 - minor silicification	87	92				
						92	97.3				
						97.3	102				
					102-126.4 - MINOR SILICIFICATION	102	107				
						107	112				
						112	117				
						117	122				

ITH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA						
							FROM	TO	W	Au	Ag	Au2	
		148.1 - 155' - TOS Epiclastic, coarse sand to lapilli sized clasts, sub-rounded, & matrix supported. Moderately soft. LT. Green in color.	130			126.4 - 127.7' - WHITE CLAY + pyrite fractures @ 10-35° to Ca. minor open space area + silicification	122	126.4					
		155 - 197.4' - TOS/DOZER Transition Zone. (Epiclastic w/ dominant dozer clasts)	140				126.4	127.7					
		155-160.4' - HARD, silicified, matrix to clast supported Epiclastic/volcanic BRECCIA. LT Gray to pink in color.	150				127.7	132					
		160.4 - 163.5' - soft, argillized, propylitized, Epiclastic. clasts ARE coarse sand to lapilli in size.	140			Possible BEDDING PLANE FAULT @ 155' @ 60° to Ca.	132	137					
		163.5' - 197.4' - moderately soft, propylitized, LT GREEN, Epiclastic/Volc Bx. Clasts ARE lapilli in size, sub-rounded, & clast supported.	160			155-160.4' - Silicified w/ white clay filled thin fractures @ 50 & 30° to Ca ≈ 6 ft/cn Caco3 veinlets @ 60-50° to Ca ≈ 1 ft.	137	142					
			170				160.4 - 163.5' - propylized, soft GREEN clay. One spot of red clay @ 163'	142	148.1				
			180				163.5 - 197.4' - minor prop + mud argillization.	148.1	152				
			190					152	155				
								155	160.4				
								160.4	163.5				
								163.5	167				
								167	172				
								172	177				
								177	182				
								182	187				
								187	192				

## HOLE NUMBER

RS-D365-99

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ITH.	OX RED. LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
						FROM	TO	W	Au	Ag	Au2
	197.4 - 771.4' - DOZER FORMATION - MASSIVE - FLOW LAMINATED - AUTO BRECCIATED, Aphanitic, Rhyolitic? Flow. UNIT IS MODERATELY BLEACHED TO A LIGHT GRAY COLOR w/ minor PROPYLITIC ALTERATION				197.4 - 219.4' - MODERATELY SOFT to Moderately Hard, Bleached, ± prop ± size fracturing Contains thin calco vermicels @ 30-40° to ca & 80-90° to ea. contains thin pyrite + white clay Fractures @ 20-30° to Ca ≈ 3-4/ft.	197.4	197.4				
				219.4 - 221.2' - RUBBLE ZONE possible structures	219.4 - 221.2' - Fractures on clasts w/ in rubble zone contain pyrite + marcasite + white clay.	202	207				
					221.2 - 251.2' - SAME AS 197.4 - 219.4'	207	212				
					251.2 - 259' - MODERATELY SILICIFIED w/ Fractures @ 10-30° to ea ≈ 8 fract/ft. containing calco + white clay ± marcasite.	212	219.4				
						219.4	221.2				
						221.2	227				
						227	232				
						232	237				
						237	242				
						242	247				
						247	251.2				
						251.2	259				

ITH.	OX RED. LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
						FROM	TO	W	Au	Ag	Au2
	Doler - Cont.				259 - 282 - SAME AS 197.4-219.4'	259	262				
		270			282-287 - INCREASED CALCO <sub>3</sub> + MARC + PYRITE fractures X white clay @ 20-30° to ca. 2-4/ft.	262	267				
		280				267	272				
	270 - 332' - Auto BX'd Doler	280				272	277				
		290				277	282				
	332-342' - Flow Banded Doler @ 50° to CN	290			287-353' - slightly bleached § pyritized, disseminated pyrite ± DARK GREEN clay fractures.	282	287				
		300			327-332' - Calco overlying 4' to 1/4" @ 20-30° to ca. 1 to 2/foot § MARC.	287	292				
		310				292	297				
		320				297	302				
		330				302	307				
						307	312				
						312	317				
						317	322				
						322	327				
						327	332				

LTH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
		Dolerite - Cont.					-332	337				
							-337	342				
							-342	347				
							347	353				
							353	358				
							358	363				
							363	368				
							368	373.5				
							373.5	378				
							378	383				
							383	388				
							388	393.7				
							393.7	397				
							397	402				

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ITH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
		Daten cont.					469.8	477				
			470				477	482				
			480				482	486.7				
			490		@ 490.3' - small fault $\frac{1}{4}$ " wide w/ calcs, LT GREEN CLAY + gray Gouge (sulfidic)		486.7	490.3				
			500				490.3	497				
			510				497	502				
			520		@ 518.7' - Small FAULT $\frac{1}{4}$ " wide CALCS + LT GREEN Gouge		502	507				
			530				507	512				
			540		522.4 - 535.4' - FAULT ZONE w/ LT GREEN Gouge & RUBBLE		512	518.7				
							518.7	522.4				
							522.4	527				
							527	533.4				
							533.4	535.4				
							535.4	537				
							537	541.9				

ITH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
						547 - 573.1' moderately strong Silification. Minor Calc + Lt Green Clay Fractures & stockworks Disseminated Pyrite common.	541.9	547				
						573.1 - 587' INCREASED SILICIFICATION GREEN CLAY, fractures & stockworks +/- minor pyrite to calc.	547	552				
						587 - 595.7' same as above w/increased Marcasite along fractures + calc + pyrite.	552	557				
							557	562				
							562	567				
							567	573.1				
							573.1	577				
							577	582				
							582	587				
							587	592				
						595.7 - 601' minor sil. w/common LT. GREEN CLAY FRACURES + calc. Fractures, & WHITE CLAY FRACURES @ 20° to CA w/moderately abundant MARCASITE BLADES along ALL fractures but very strong w/in calc + white clay veinlets.	592	595.7				
						601 - 603.6' - INTENSE ARGILLIC ALTERATION BRECCIA CLASTS OF BARELY ARE COMPLETELY ALTERED TO CRYSTAL (CREAM COLOR, MATTING LAYER OF LT. GRAY COLORED CLAST CLAY). CONTAINS WHITE CLAY & LIME GREEN CLAY FRACURES + MARCASITE BLADES THE MARCASITE IS CONCENTRATED IN THE WHITE CLAY.	595.7	601	.004			
						603.6 - 607' - MINOR SIL. w/moderate LIME GREEN CLAY FRACURES & stockwork @ 20-30° to CA & 8 ft. ONE Calc VENLET 1/4" wide w/moderate MARC @ 70° to CA. Disseminated PYRITE	601	603.6	.070			
						603.6 - 607'	603.6	607	.092			
						607 - 611.6' - STRONG LIME GREEN CLAY FRACURES & stockwork & Bx fill @ 20° to white clay + marcasite	607	611.6	.162			

ITH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
							611.6	615.4		.710		
							615.4	617		.347		
							617	620.8				
							620.8	622.6				
							622.6	624.8				
							624.8	625.8				
							625.8	627.9				
							627.9	632				
							632	637				
							637	638.6				
							638.6	641.6				
							641.6	646.4				
							646.4	650				
							650	654.3				
							654.3	658				
							658	662				
							662	662.8				
							662.8	664.6				
							664.6	667				
							667	672				
							672	675.2				
							675.2	682				

LTH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
		Daren Cont.										
			690			675.2-699'	682	687				
			700			Daren w/ moderately common calcos. Interbedded zones of shelling & Ry4ns. + white clay	687	692				
			710			699-712.5' - ABUNDANT Calc + white clay, fractured stockworks.	692	699				
			720			712.5-721.8' - Same as 675.2-699'	699	706				
			730				706	712.5				
			740				712.5	717				
			750				717	724.8				
						721.8-727.5' - Peppermized fg daren w/ abundant calcos + white clay veinlets. Common manganese blades along both calcos & white clay fractures. Calcous fractures @ 0-20° to ca	721.8	725				
							725	727.7				
							727.5-771.4'					
						Same as 675.2-699'	727.7	732				
							732	737				
							737	742				
							742	747				
							747	752				

ITH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
		771.4 - 772.4 - Als phyllites + CaCO <sub>3</sub>				773.4 - 900 Pervasively sheared and brecciated. Shears are 20-40° where visible. Slickensides are 40-50° to core axis	771.4 - 772.4 - Abundant CaCO <sub>3</sub>					
		772.4 - 773.4 - Doler Fg					772.4 - 773.4 - Moderate Calc.	752	757			
		773.4 - 820 - Als Phyllites, DL grey to black interbedded w/ slate					773.4 - 820 - Calcareous Shales phyllites w/ common interbedded METAMORPHIC QUARTZ. Some doler clasts to 2'	757	762			
							791 - 890 2-5% microcrystalline disseminated pyrite Common calcite veins	762	767			
								767	771.4			
								771.4	772.4			
								772.4	773.4			
								773.4	777			
								777	782			
								782	787			
								787	791			
								791	794.8			
								794.8	797			
		794.8 - 797						797	802			
		802 - 803						802	803			
		Fine grained intrusive, Lt Greenish-Grey, Soft to mod hard (argillized)						803	807			
								807	812			
								812	816			
								816	821			

LTH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
		ALS				Pervasively sheared and brecciated (mechanical). Shears are 20-40° slickensides are 40-60° on flts shown.	821	825.5				
		ALS Phyllites				825.5 - 828	825.5	828				
						Same as 802-803	828	833				
						833 - 840	833	835				
						Silicified Zone, moderately hard w/ open fractures coated w/ drusy Qtz. still mechanically brecciated.	835	840.2				
							840.2	843				
							843	847				
							847	852				
							852	857				
							857	862				
							862	867				
							867	872				
							872	877				
						882 - TD	877	882				
						Less brecciated. Still sheared.						
						Calcareous w/ common interbedded Qtz. (Metamorphic)						
						2-5% microcrystalline disseminated pyrite. Some drusy Qtz coating on fracture surfaces.						
						883 - fracture coated with $\frac{1}{16}$ - $\frac{1}{8}$ " Ca crystals						
						8						
							885	890				

## HOLE NUMBER

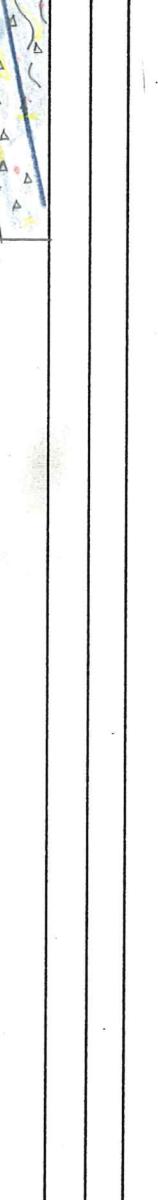
RS - D365 - 99

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LITH.	OX/ RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
		ALS				Pervasively sheared and mechanically brecciated. Shears are 20-40° and slickensides are 50-60°	890	894				
			900			Calcareous with common interbedded metamorphic ctsz 2-5% microcrystalline pyrite Some drusy cts coating on fracture surfaces.	894	897				
			910				897	903.5				
			920				903.5	908				
			930				908	913				
			940				913	918				
			950				918	923				
			960				923	928				
							928	933				
							933	938				
							938	943				
							943	948				
							948	953				
							953	958				
							958	963				
						959-961 High angle structure, related to bedding.						

HOLE NUMBER D365-99

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LITH.	OX/ RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
		ALS			Pervasively sheared and mechanically brecciated, Shears are 20-40° and Slickensides are 50-60° where indicated	Calcareous w/ common metamorphic Qtz. 2-5% microcrystalline disseminated pyrite. Occasional druse Qtz coating on fracture surfaces.	958	963				
							~963	968				
							968	974				

**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-D365-99

DATE: 10/16/99

LOGGED BY: KAA

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-D365-99

DATE: 10/11/99

LOGGED BY: KAA

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE #: RS-13365-99 DATE: 10/11/99

LOGGED BY: \_\_\_\_\_

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-13165-99

DATE: 10/11/99

LOGGED BY: ED A

PAGE 4 OF 14

**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

MOLE # PS-D365-99

DATE: 10/11/99

LOGGED BY: KAA

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-D365-99

DATE: 10/11/99

LOGGED BY: KSA

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-D365-99

**DATE:** 10/12/95

LOGGED BY

PAGE 7 OF 14

**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-D365-99 DATE: 10/12/99

LOGGED BY: KNA

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # D-365

DATE: 10/13/99

LOGGED BY: LAW

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

MOLE # D-365

DATE: 10/13/99

LOGGED BY: AAS

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # D-365

DATE: 10/13/99

LOGGED BY: KAD

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-D365-99

DATE: 10/18/99

LOGGED BY: D. M. Muckleroy

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-D36S-99

DATE: 10/18/99

LOGGED BY: D8 Mukherjee

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**HECLA MINING COMPANY – ROSEBUD PROJECT  
GEOTECHNICAL DRILL LOG**

HOLE # RS-475-99

DATE: 10/18/99

LOGGED BY: D.G. Mackerron

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19-Oct-99

ROSEBUD MINING COMPANY LLC  
 P.O. BOX 2610  
 58 MILES WEST OF  
 WINNEMUCCA, NV 89446

Page: 1  
 Copy: 1 of 1  
 Set: 1

Received: 14-Oct-99 22:18

Attn: Kurt Allen  
 Project: RS-D365 99

PO #:

Status: Preliminary

Job: 993647R

## Drill Core

	Sample Id	Au FA/AA oz/ton	Au FA oz/ton	Ag AA ppm	Ag AA oz/ton	Ag FA oz/ton	
601-617- 14'@ 0.446 Au	RS-D365-99 597.7-601	0.004	NA	1.9	0.055	NA	6240 0.4484m
	RS-D365-99 601-603.6	0.270	0.283	18.2	0.531	0.735	
	RS-D365-99 603.6-607	0.092	NA	6.4	0.187	NA	
	RS-D365-99 607-611.6	0.624	0.627	45.0	1.314	1.588	
	RS-D365-99 611.6-615.4	0.710	0.731	111.0	3.241	3.610	
	RS-D365-99 615.4-617	0.347	0.282	15.7	0.458	0.355	
1.32 Ag	RS-D365-99 617-620.8	0.025	NA	1.9	0.055	NA	
	RS-D365-99 620.8-622.6	0.014	NA	1.4	0.041	NA	
	RS-D365-99 622.6-624.8	0.030	NA	2.8	0.082	NA	
	RS-D365-99 624.8-625.8	0.005	NA	0.5	0.015	NA	
658-667- 9'@ 0.245 Au	RS-D365-99 625.8-627.9	0.013	NA	4.8	0.140	NA	0.2484m
	RS-D365-99 658-662	0.184	0.208	19.9	0.581	0.618	
	RS-D365-99 662-662.8	0.104	0.097	10.4	0.304	0.610	
	RS-D365-99 662.8-664.6	0.566	0.494	115.0	3.358	1.877	
	RS-D365-99 664.6-667	0.152	0.180	19.3	0.564	0.637	
1.11 Ag	RS-D365-99 667-672	0.002	NA	0.4	0.012	NA	
	RS-D365-99 672-675.2	0.005	0.008	331.0	9.665	8.460	
	RS-D365-99 721.8-725	0.001	NA	5.6	0.164	NA	
	RS-D365-99 725-727.7	0.002	NA	1.7	0.050	NA	

Pending analyses:

Ag ICP ppm  
 Al ICP %  
 As ICP ppm  
 B ICP ppm  
 Ba ICP ppm  
 Bi ICP ppm  
 Ca ICP %  
 Cd ICP ppm  
 Co ICP ppm



INSPECTORATE

3-Nov-99

ROSEBUD MINING COMPANY  
 P.O. BOX 2610  
 58 MILES WEST OF  
 WINNEMUCCA, NV 89446

INSPECTORATE AMERICA CORPORATION  
 840 Greg Street  
 Sparks, Nevada 89431  
 Tel: 775-359-6311  
 Fax: 775-359-2944

Page: 1  
 Copy: 1 of 2  
 Set : 1

## Certificate of Analysis

Attn: Kurt Allen  
 Project: RS-D365-99

PO #:

Received: 14-Oct-99 22:18

Job: 993647R

Status: Final

## Drill Core

Sample Id	Au FA/AA oz/ton	Au FA oz/ton	Ag AA ppm	Ag AA oz/ton	Ag FA oz/ton	Ag FA oz/ton	Ag ICP ppm	Al ICP %	As ICP ppm
RS-D365-99 597.7-601	0.004	NA	1.9	0.055	NA	NA	1.1	0.20	53
RS-D365-99 601-603.6	0.270	0.283	18.2	0.531	0.735	NA	19.9	0.28	27
RS-D365-99 603.6-607	0.092	0.089	6.4	0.187	<0.100	NA	5.3	0.23	17
RS-D365-99 607-611.6	0.624	0.627	45.0	1.314	1.588	NA	40.8	0.21	16
RS-D365-99 611.6-615.4	0.710	0.731	111.0	3.241	3.610	NA	>100.0	0.22	38
RS-D365-99 615.4-617	0.347	0.282	15.7	0.458	0.355	NA	13.6	0.19	9
RS-D365-99 617-620.8	0.025	NA	1.9	0.055	NA	NA	1.6	0.29	20
RS-D365-99 620.8-622.6	0.014	NA	1.4	0.041	NA	NA	0.8	0.33	15
RS-D365-99 622.6-624.8	0.030	NA	2.8	0.082	NA	NA	2.1	0.26	44
RS-D365-99 624.8-625.8	0.005	NA	0.5	0.015	NA	NA	0.2	0.18	3
RS-D365-99 625.8-627.9	0.013	NA	4.8	0.140	NA	NA	3.0	0.19	31
RS-D365-99 658-662	0.184	0.208	19.9	0.581	0.618	NA	14.8	0.48	30
RS-D365-99 662-662.8	0.104	0.097	10.4	0.304	0.610	NA	13.7	0.54	37
RS-D365-99 662.8-664.6	0.566	0.494	94.5	2.759	1.877	NA	67.0	0.30	17
RS-D365-99 664.6-667	0.152	0.180	21.3	0.622	0.637	NA	12.8	0.25	9
RS-D365-99 667-672	0.002	NA	0.4	0.012	NA	NA	<0.1	0.28	17
RS-D365-99 672-675.2	0.005	0.008	>200.0	>5.840	8.460	9.499	>100.0	0.31	15
RS-D365-99 721.8-725	0.001	NA	5.6	0.164	NA	NA	7.9	0.46	6
RS-D365-99 725-727.7	0.002	NA	1.7	0.050	NA	NA	1.2	0.49	2



3-Nov-99

ROSEBUD MINING COMPANY  
P.O. BOX 2610  
58 MILES WEST OF  
WINNEMUCCA, NV 89446

INSPECTORATE AMERICA CORPORATION  
840 Greg Street  
Sparks, Nevada 89431  
Tel: 775-359-6311  
Fax: 775-359-2944

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### Certificate of Analysis

Attn: Kurt Allen  
Project: RS-D365-99

Received: 14-Oct-99 22:18

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Job: 993647R Status: Final

#### Drill Core

Sample Id	B ICP ppm	Ba ICP ppm	Bi ICP ppm	Ca ICP %	Cd ICP ppm	Co ICP ppm	Cr ICP ppm	Cu ICP ppm	Fe ICP %	Hg HYG ppb
RS-D365-99 597.7-601	20	208	<1	0.32	1.0	<1	36	6	1.76	77
RS-D365-99 601-603.6	11	68	<1	0.55	1.0	1	13	43	0.94	98
RS-D365-99 603.6-607	15	41	<1	0.31	1.0	1	46	14	1.31	42
RS-D365-99 607-611.6	13	300	<1	0.16	1.0	1	39	25	1.07	247
RS-D365-99 611.6-615.4	15	20	<1	0.31	1.0	3	46	46	1.48	341
RS-D365-99 615.4-617	16	30	<1	0.13	1.0	2	74	30	1.32	94
RS-D365-99 617-620.8	16	45	<1	0.39	1.0	2	53	11	1.51	21
RS-D365-99 620.8-622.6	20	119	<1	0.11	1.4	1	62	13	1.97	14
RS-D365-99 622.6-624.8	15	36	<1	0.33	3.3	1	37	8	1.31	73
RS-D365-99 624.8-625.8	7	185	<1	0.20	1.1	2	12	4	0.33	14
RS-D365-99 625.8-627.9	28	341	<1	0.66	3.0	1	24	5	3.27	56
RS-D365-99 658-662	15	287	<1	0.89	1.0	<1	18	44	1.52	146
RS-D365-99 662-662.8	17	234	<1	0.80	1.0	<1	11	30	1.68	115
RS-D365-99 662.8-664.6	9	681	<1	0.50	1.0	<1	17	36	0.62	240
RS-D365-99 664.6-667	10	353	<1	0.56	1.0	<1	23	12	0.70	125
RS-D365-99 667-672	9	327	<1	0.85	<1.0	<1	15	7	0.73	14
RS-D365-99 672-675.2	10	23	<1	1.35	<1.0	2	18	581	0.84	14
RS-D365-99 721.8-725	15	838	<1	2.06	<1.0	<1	12	88	1.49	24
RS-D365-99 725-727.7	17	669	<1	3.09	<1.0	<1	13	121	1.69	17



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### Certificate of Analysis

Attn: Kurt Allen  
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Received: 14-Oct-99 22:18

PO #:

Job: 993647R

Status: Final

#### Drill Core

Sample Id	K ICP %	La ICP ppm	Mg ICP %	Mn ICP ppm	Mo ICP ppm	Na ICP %	Ni ICP ppm	P ICP ppm	Pb ICP ppm	Sb ICP ppm
RS-D365-99 597.7-601	0.23	33	0.02	68	1	<0.01	3	36	27	3
RS-D365-99 601-603.6	0.44	67	0.03	76	<1	<0.01	1	76	52	6
RS-D365-99 603.6-607	0.26	37	0.02	88	<1	<0.01	4	50	23	2
RS-D365-99 607-611.6	0.27	33	0.02	43	1	<0.01	4	43	26	4
RS-D365-99 611.6-615.4	0.27	35	0.02	79	33	<0.01	4	34	67	12
RS-D365-99 615.4-617	0.35	33	0.02	75	1	<0.01	7	51	44	3
RS-D365-99 617-620.8	0.22	34	0.09	181	1	<0.01	4	43	26	4
RS-D365-99 620.8-622.6	0.21	32	0.12	144	1	<0.01	4	47	48	4
RS-D365-99 622.6-624.8	0.25	38	0.04	91	<1	<0.01	3	51	78	6
RS-D365-99 624.8-625.8	0.15	5	0.03	35	<1	<0.01	2	15	19	2
RS-D365-99 625.8-627.9	0.17	28	0.02	175	<1	<0.01	2	31	94	8
RS-D365-99 658-662	0.40	59	0.05	257	3	<0.01	3	77	46	3
RS-D365-99 662-662.8	0.43	65	0.06	262	<1	<0.01	2	82	35	2
RS-D365-99 662.8-664.6	0.43	51	0.03	85	1	<0.01	3	58	38	3
RS-D365-99 664.6-667	0.32	43	0.03	165	2	<0.01	2	62	24	<2
RS-D365-99 667-672	0.26	43	0.03	211	2	<0.01	1	60	17	<2
RS-D365-99 672-675.2	0.25	41	0.04	319	<1	<0.01	12	36	179	<2
RS-D365-99 721.8-725	0.23	37	0.04	583	1	<0.01	2	45	42	2
RS-D365-99 725-727.7	0.20	33	0.05	751	2	<0.01	2	46	51	3



3-Nov-99

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### Certificate of Analysis

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PO #:

Received: 14-Oct-99 22:18

Job: 993647R

Status: Final

#### Drill Core

Sample Id	Se ICP ppm	Sr ICP ppm	Ti ICP %	Tl ICP ppm	V ICP ppm	W ICP ppm	Zn ICP ppm
RS-D365-99 597.7-601	4	84	<0.01	<0.5	<2	<1	49
RS-D365-99 601-603.6	8	140	<0.01	<0.5	<2	<1	64
RS-D365-99 603.6-607	2	100	<0.01	<0.5	<2	<1	44
RS-D365-99 607-611.6	4	86	<0.01	<0.5	<2	<1	37
RS-D365-99 611.6-615.4	7	89	<0.01	<0.5	<2	<1	38
RS-D365-99 615.4-617	1	51	<0.01	<0.5	<2	<1	31
RS-D365-99 617-620.8	1	76	<0.01	<0.5	<2	<1	34
RS-D365-99 620.8-622.6	4	57	<0.01	<0.5	<2	<1	38
RS-D365-99 622.6-624.8	7	94	<0.01	<0.5	<2	<1	200
RS-D365-99 624.8-625.8	1	91	<0.01	<0.5	<2	<1	48
RS-D365-99 625.8-627.9	13	118	<0.01	<0.5	<2	<1	104
RS-D365-99 658-662	<1	177	<0.01	<0.5	<2	<1	194
RS-D365-99 662-662.8	1	179	<0.01	<0.5	<2	<1	111
RS-D365-99 662.8-664.6	4	150	<0.01	<0.5	<2	6	133
RS-D365-99 664.6-667	2	122	<0.01	<0.5	<2	<1	89
RS-D365-99 667-672	1	152	<0.01	<0.5	<2	<1	69
RS-D365-99 672-675.2	<1	199	<0.01	<0.5	<2	117	75
RS-D365-99 721.8-725	<1	154	<0.01	<0.5	<2	4	73
RS-D365-99 725-727.7	<1	178	<0.01	<0.5	<2	<1	60



3-Nov-99

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Attn: Kurt Allen  
Project: RS-D365-99

PO #:

### Certificate of Analysis

Received: 14-Oct-99 22:18

Job: 993647R

Status: Final

#### Abbreviations:

#### Parameters:

Au	: Gold
Ag	: Silver
Al	: Aluminum
As	: Arsenic
B	: Boron
Ba	: Barium
Bi	: Bismuth
Ca	: Calcium
Cd	: Cadmium
Co	: Cobalt
Cr	: Chromium
Cu	: Copper
Fe	: Iron
Hg	: Mercury
K	: Potassium
La	: Lanthanum
Mg	: Magnesium
Mn	: Manganese
Mo	: Molybdenum
Na	: Sodium
Ni	: Nickel
P	: Phosphorus
Pb	: Lead



3-Nov-99

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Status: Final

Sb : Antimony  
Se : Selenium  
Sr : Strontium  
Ti : Titanium  
Tl : Thallium  
V : Vanadium  
W : Tungsten  
Zn : Zinc

#### Methods:

FA/AA : Fire Assay/Atomic Absorption Finish  
FA : Fire Assay/Gravimetric Finish  
AA : Atomic Absorption  
ICP : Inductively Coupled Plasma  
HYG : Hydride Generation

#### Units:

oz/ton : ounces per ton  
ppm : Parts per million  
% : percent  
ppb : Parts per billion

#### Quality codes:

< : Less than



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Attn: Kurt Allen  
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PO #:

Job: 993647R

Status: Final

> : Greater Than  
NA : Not Analyzed



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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 geologic 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.

Job approved by:

Signed:

.....

Dave Francisco  
Laboratory Manager



8-Nov-99

ROSEBUD MINING COMPANY  
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Attn: Kurt Allen  
Project: RS-D365-99

### Certificate of Analysis

Received: 23-Oct-99 10:15

PO #: Ref: 99-37-30

Job: 993675R

Status: Final

### Drill Core

Sample Id	Au FA/AA oz/ton	Ag AA oz/ton
RS-D365-99 782-787	0.005	0.204
RS-D365-99 787-791	0.004	0.082
RS-D365-99 791-794.8	0.003	0.032
RS-D365-99 794.8-797	0.001	0.018
RS-D365-99 797-802	0.002	0.032
RS-D365-99 802-803	0.002	0.032
RS-D365-99 803-807	0.003	0.123
RS-D365-99 807-812	0.001	0.053
RS-D365-99 812-816	0.001	0.058
RS-D365-99 816-821	0.001	0.064
RS-D365-99 821-825.5	0.001	0.064
RS-D365-99 825.5-828	0.002	0.044
RS-D365-99 828-833	0.002	0.073
RS-D365-99 833-835	0.032	4.380
RS-D365-99 835-840.2	0.003	0.134
RS-D365-99 840.2-843	0.003	0.134
RS-D365-99 843-847	0.002	0.082
RS-D365-99 847-852	0.002	0.088
RS-D365-99 852-857	0.003	0.085
RS-D365-99 857-862	0.002	0.047

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Job: 993675R

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Drill Core

Sample Id	Au FA/AA oz/ton	Ag AA oz/ton
RS-D365-99 862-867	0.002	0.064
RS-D365-99 867-872	0.003	0.050
RS-D365-99 872-877	0.001	0.044
RS-D365-99 877-882	0.002	0.055
RS-D365-99 882-885	0.002	0.047
RS-D365-99 885-890	0.001	0.061
RS-D365-99 890-894	0.001	0.038
RS-D365-99 894-897	0.001	0.023
RS-D365-99 897-903.5	0.001	0.038
RS-D365-99 903.5-908	0.001	0.035
RS-D365-99 908-913	0.001	0.003
RS-D365-99 913-918	0.001	0.038
RS-D365-99 918-923	0.000	0.012
RS-D365-99 923-928	0.001	0.023
RS-D365-99 928-933	0.000	0.018
RS-D365-99 933-938	0.000	0.018
RS-D365-99 938-943	0.000	0.035
RS-D365-99 943-948	0.000	0.015
RS-D365-99 948-953	0.000	0.041
RS-D365-99 953-958	0.001	0.035



8-Nov-99

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**Drill Core**

Sample Id	Au FA/AA oz/ton	Ag AA oz/ton
RS-D365-99 958-963	0.001	0.015
RS-D365-99 963-968	0.000	0.009
RS-D365-99 968-974	0.000	0.038

**Pulp**

STD 75244	0.028	0.876
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8-Nov-99

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#### Drill Core

Sample Id	Ag ICP ppm	Al ICP %	As ICP ppm	B ICP ppm	Ba ICP ppm	Bi ICP ppm	Ca ICP %	Cd ICP ppm	Co ICP ppm	Cr ICP ppm
RS-D365-99 782-794.8	3.4	0.18	26	23	129	4	7.54	2.3	4	21
RS-D365-99 794.8-833	1.9	0.23	44	25	152	<1	3.91	4.1	4	34
RS-D365-99 833-840.2	84.3	0.13	60	24	207	4	4.05	1.2	4	90
RS-D365-99 840.2-882	3.0	0.13	90	27	152	<1	4.73	4.5	4	75
RS-D365-99 882-933	1.5	0.17	43	37	98	2	3.80	1.5	7	29
RS-D365-99 933-974	1.4	0.16	45	36	112	4	5.38	1.8	7	26

Sample Id	Cu ICP ppm	Fe ICP %	Hg HYG ppb	K ICP %	La ICP ppm	Mg ICP %	Mn ICP ppm	Mo ICP ppm	Na ICP %	Ni ICP ppm
RS-D365-99 782-794.8	23	1.54	41	0.18	2	0.41	285	37	1.95	51
RS-D365-99 794.8-833	21	1.55	55	0.19	2	0.28	301	26	3.39	32
RS-D365-99 833-840.2	15	1.59	45	0.14	3	0.07	348	21	0.88	30
RS-D365-99 840.2-882	22	1.52	28	0.14	3	0.19	318	29	4.10	43
RS-D365-99 882-933	28	2.41	38	0.16	2	0.31	260	34	1.08	52
RS-D365-99 933-974	34	2.37	41	0.16	2	0.34	259	37	1.35	58



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#### Drill Core

Sample Id	P ICP ppm	Pb ICP ppm	Sb ICP ppm	Se ICP ppm	Sr ICP ppm	Ti ICP %	Tl ICP ppm	V ICP ppm	W ICP ppm	Zn ICP ppm
RS-D365-99 782-794.8	578	16	5	<0.5	705	<0.01	<0.5	9	<1	166
RS-D365-99 794.8-833	455	18	5	0.8	470	<0.01	<0.5	5	<1	279
RS-D365-99 833-840.2	477	14	6	19.4	456	<0.01	<0.5	3	<1	79
RS-D365-99 840.2-882	547	16	7	2.7	503	<0.01	<0.5	7	<1	331
RS-D365-99 882-933	726	23	8	<0.5	468	<0.01	<0.5	3	<1	98
RS-D365-99 933-974	784	23	8	<0.5	644	<0.01	<0.5	3	<1	116



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#### Abbreviations:

#### Parameters:

Au	: Gold
Ag	: Silver
Al	: Aluminum
As	: Arsenic
B	: Boron
Ba	: Barium
Bi	: Bismuth
Ca	: Calcium
Cd	: Cadmium
Co	: Cobalt
Cr	: Chromium
Cu	: Copper
Fe	: Iron
Hg	: Mercury
K	: Potassium
La	: Lanthanum
Mg	: Magnesium
Mn	: Manganese
Mo	: Molybdenum
Na	: Sodium
Ni	: Nickel
P	: Phosphorus
Pb	: Lead



8-Nov-99

ROSEBUD MINING COMPANY  
P.O. BOX 2610  
58 MILES WEST OF  
WINNEMUCCA, NV 89446

INSPECTORATE AMERICA CORPORATION  
840 Greg Street  
Sparks, Nevada 89431  
Tel: 775-359-6311  
Fax: 775-359-2944

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Attn: Kurt Allen  
Project: RS-D365-99

### Certificate of Analysis

Received: 23-Oct-99 10:15

PO #: Ref: 99-37-30

Job: 993675R Status: Final

Sb : Antimony  
Se : Selenium  
Sr : Strontium  
Ti : Titanium  
Tl : Thallium  
V : Vanadium  
W : Tungsten  
Zn : Zinc

#### Methods:

FA/AA : Fire Assay/Atomic Absorption Finish  
AA : Atomic Absorption  
ICP : Inductively Coupled Plasma  
HYG : Hydride Generation

#### Units:

oz/ton : ounces per ton  
ppm : Parts per million  
% : percent  
ppb : Parts per billion

#### Quality codes:

< : Less than



8-Nov-99

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Received: 23-Oct-99 10:15  
PO #: Ref: 99-37-30

Job: 993675R Status: Final

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 geologic 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.

Job approved by:

Signed:

.....  
Dave Francisco  
Laboratory Manager



19-Oct-99

ROSEBUD MINING COMPANY LLC  
 P.O. BOX 2610  
 58 MILES WEST OF  
 WINNEMUCCA, NV 89446

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Received: 14-Oct-99 22:18

Attn: Kurt Allen  
 Project: RS-D365 99

PO #:

status: Preliminary

Job: 993647R

## Drill Core

Sample Id	Au FA/AA oz/ton	Au FA oz/ton	Ag AA ppm	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 597.7-601	0.004	NA	1.9	0.055	NA
601-617-14'@ 0.446 Au	0.270	0.283	18.2	0.531	0.735
RS-D365-99 603.6-607	0.092	NA	6.4	0.187	NA
RS-D365-99 607-611.6	0.624	0.627	45.0	1.314	1.588
RS-D365-99 611.6-615.4	0.710	0.731	111.0	3.241	3.610
RS-D365-99 615.4-617	0.347	0.282	15.7	0.458	0.355
RS-D365-99 617-620.8	0.025	NA	1.9	0.055	NA
RS-D365-99 620.8-622.6	0.014	NA	1.4	0.041	NA
RS-D365-99 622.6-624.8	0.030	NA	2.8	0.082	NA
RS-D365-99 624.8-625.8	0.005	NA	0.5	0.015	NA
RS-D365-99 625.8-627.9	0.013	NA	4.8	0.140	NA
658-667-9'@ 0.245 Au 1.11 Ag	0.184	0.208	19.9	0.581	0.618
RS-D365-99 658-662	0.104	0.097	10.4	0.304	0.610
RS-D365-99 662-662.8	0.566	0.494	115.0	3.358	1.877
RS-D365-99 662.8-664.6	0.152	0.180	19.3	0.564	0.637
RS-D365-99 664.6-667	0.002	NA	0.4	0.012	NA
RS-D365-99 667-672	0.005	0.008	331.0	9.665	8.460
RS-D365-99 672-675.2	0.001	NA	5.6	0.164	NA
RS-D365-99 721.8-725	0.002	NA	1.7	0.050	NA
RS-D365-99 725-727.7					

Pending analyses:

Ag ICP ppm  
 Al ICP %  
 As ICP ppm  
 B ICP ppm  
 Ba ICP ppm  
 Bi ICP ppm  
 Ca ICP %  
 Cd ICP ppm  
 Co ICP ppm



16-Nov-99

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Attn: Kurt Allen  
Project: RS-D365-99

Certificate of Analysis  
Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R

Status: Final

## Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA oz/ton	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 0-7	0.000	NA	0.007	NA
RS-D365-99 7-12	0.001	NA	0.020	NA
RS-D365-99 12-17	0.000	NA	0.018	NA
RS-D365-99 17-20.7	0.000	NA	0.033	NA
RS-D365-99 20.7-21.7	0.017	NA	0.075	NA
RS-D365-99 21.7-23	0.000	NA	0.009	NA
RS-D365-99 23-27	0.000	NA	0.016	NA
RS-D365-99 27-32	0.001	NA	0.042	NA
RS-D365-99 32-37	0.001	NA	0.036	NA
RS-D365-99 37-42.7	0.004	NA	0.072	NA
RS-D365-99 42.7-44.5	0.004	NA	0.129	NA
RS-D365-99 44.5-46.4	0.002	NA	0.064	NA
RS-D365-99 46.4-47.6	0.004	NA	0.101	NA
RS-D365-99 47.6-50.7	0.003	NA	0.119	NA
RS-D365-99 50.7-57	0.001	NA	0.060	NA
RS-D365-99 57-62	0.001	NA	0.028	NA
RS-D365-99 62-67	0.001	NA	0.013	NA
RS-D365-99 67-72	0.000	NA	0.008	NA
RS-D365-99 72-77	0.001	NA	0.016	NA
RS-D365-99 77-82	0.000	NA	0.012	NA



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Project: RS-D365-99

Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R

Status: Final

#### Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA oz/ton	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 82-87	0.000	NA	0.017	NA
RS-D365-99 87-92	0.000	NA	0.010	NA
RS-D365-99 92-97.3	0.000	NA	0.008	NA
RS-D365-99 97.3-102	0.000	NA	0.010	NA
RS-D365-99 102-107	0.000	NA	0.016	NA
RS-D365-99 107-112	0.000	NA	0.014	NA
RS-D365-99 112-117	0.000	NA	0.012	NA
RS-D365-99 117-122	0.000	NA	0.009	NA
RS-D365-99 122-126.4	0.000	NA	0.007	NA
RS-D365-99 126.4-127.7	0.001	NA	0.012	NA
RS-D365-99 127.7-132	0.000	NA	0.013	NA
RS-D365-99 132-137	0.000	NA	0.011	NA
RS-D365-99 137-142	0.000	NA	0.011	NA
RS-D365-99 142-148.1	0.001	NA	0.023	NA
RS-D365-99 148.1-152	0.001	NA	0.025	NA
RS-D365-99 152-155	0.000	NA	0.018	NA
RS-D365-99 155-160.4	0.000	NA	0.010	NA
RS-D365-99 160.4-163.5	0.000	NA	0.007	NA
RS-D365-99 163.5-167	0.000	NA	0.009	NA
RS-D365-99 167-172	0.000	NA	0.004	NA



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Certificate of Analysis  
Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R

Status: Final

## Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA oz/ton	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 172-177	0.000	NA	0.022	NA
RS-D365-99 177-182	0.000	NA	0.025	NA
RS-D365-99 182-187	0.001	NA	0.015	NA
RS-D365-99 187-192	0.000	NA	0.009	NA
RS-D365-99 192-197.4	0.000	NA	0.013	NA
RS-D365-99 197.4-202	0.001	NA	0.022	NA
RS-D365-99 202-207	0.001	NA	0.024	NA
RS-D365-99 207-212	0.001	NA	0.026	NA
RS-D365-99 212-219.4	0.001	NA	0.017	NA
RS-D365-99 219.4-221.2	0.001	NA	0.031	NA
RS-D365-99 221.2-227	0.002	NA	0.023	NA
RS-D365-99 227-232	0.002	NA	0.027	NA
RS-D365-99 232-237	0.001	NA	0.019	NA
RS-D365-99 237-242	0.011	NA	0.029	NA
RS-D365-99 242-247	0.001	NA	0.041	NA
RS-D365-99 247-251.2	0.002	NA	0.036	NA
RS-D365-99 251.2-259	0.001	NA	0.020	NA
RS-D365-99 259-262	0.001	NA	0.011	NA
RS-D365-99 262-267	0.002	NA	0.018	NA
RS-D365-99 267-272	0.002	NA	0.029	NA



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Certificate of Analysis  
Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R

Status: Final

## Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA oz/ton	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 272-277	0.002	NA	0.025	NA
RS-D365-99 277-282	0.002	NA	0.019	NA
RS-D365-99 282-287	0.002	NA	0.030	NA
RS-D365-99 287-292	0.002	NA	0.027	NA
RS-D365-99 292-297	0.004	NA	0.040	NA
RS-D365-99 297-302	0.003	NA	0.044	NA
RS-D365-99 302-307	0.002	NA	0.024	NA
RS-D365-99 307-312	0.002	NA	0.020	NA
RS-D365-99 312-317	0.001	NA	0.013	NA
RS-D365-99 317-322	0.001	NA	0.018	NA
RS-D365-99 322-327	0.001	NA	0.015	NA
RS-D365-99 327-332	0.003	NA	0.038	NA
RS-D365-99 332-337	0.001	NA	0.010	NA
RS-D365-99 337-342	0.001	NA	0.009	NA
RS-D365-99 342-347	0.001	NA	0.014	NA
RS-D365-99 347-353	0.002	NA	0.021	NA
RS-D365-99 353-358	0.003	NA	0.030	NA
RS-D365-99 358-363	0.006	NA	0.037	NA
RS-D365-99 363-368	0.002	NA	0.013	NA
RS-D365-99 368-373.5	0.001	NA	0.022	NA



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Job: 993740R Status: Final

#### Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA oz/ton	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 373.5-378	0.001	NA	0.016	NA
RS-D365-99 378-383	0.001	NA	0.018	NA
RS-D365-99 383-388	0.004	NA	0.022	NA
RS-D365-99 388-393.7	0.001	NA	0.011	NA
RS-D365-99 393.7-397	0.001	NA	0.009	NA
RS-D365-99 397-402	0.001	NA	0.016	NA
RS-D365-99 402-407	0.002	NA	0.021	NA
RS-D365-99 407-412	0.002	NA	0.022	NA
RS-D365-99 412-417	0.002	NA	0.016	NA
RS-D365-99 417-422	0.001	NA	0.013	NA
RS-D365-99 422-427	0.001	NA	0.028	NA
RS-D365-99 427-434.4	0.001	NA	0.018	NA
RS-D365-99 434.4-437	0.001	NA	0.029	NA
RS-D365-99 437-441.3	0.002	NA	0.034	NA
RS-D365-99 441.3-447	0.001	NA	0.018	NA
RS-D365-99 447-452	0.001	NA	0.013	NA
RS-D365-99 452-457	0.001	NA	0.014	NA
RS-D365-99 457-462	0.001	NA	0.013	NA
RS-D365-99 462-465.5	0.000	NA	0.010	NA
RS-D365-99 465.5-469.8	0.008	NA	0.034	NA



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Attn: Kurt Allen  
Project: RS-D365-99

Certificate of Analysis  
Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R Status: Final

Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA oz/ton	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 469.8-477	0.001	NA	0.012	NA
RS-D365-99 477-482	0.000	NA	0.008	NA
RS-D365-99 482-486.7	0.001	NA	0.020	NA
RS-D365-99 486.7-490.3	0.001	NA	0.016	NA
RS-D365-99 490.3-497	0.001	NA	0.014	NA
RS-D365-99 497-502	0.000	NA	0.018	NA
RS-D365-99 502-507	0.000	NA	0.010	NA
RS-D365-99 507-512	0.000	NA	0.010	NA
RS-D365-99 512-518.7	0.001	NA	0.012	NA
RS-D365-99 518.7-522.4	0.002	NA	0.012	NA
RS-D365-99 522.4-527	0.001	NA	0.015	NA
RS-D365-99 527-533.4	0.001	NA	0.008	NA
RS-D365-99 533.4-535.4	0.001	NA	0.016	NA
RS-D365-99 535.4-537	0.002	NA	0.013	NA
RS-D365-99 537-541.9	0.003	NA	0.015	NA
RS-D365-99 541.9-547	0.001	NA	0.012	NA
RS-D365-99 547-552	0.034	NA	0.057	NA
RS-D365-99 552-557	0.014	NA	0.023	NA
RS-D365-99 557-562	0.008	NA	0.014	NA
RS-D365-99 562-567	0.069	0.036	0.085	<0.100



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### Certificate of Analysis

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Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R

Status: Final

#### Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA oz/ton	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 567-573.1	0.262	0.239	0.170	0.193
RS-D365-99 573.1-577	0.021	NA	0.038	NA
RS-D365-99 577-582	0.004	NA	0.023	NA
RS-D365-99 582-587	0.001	NA	0.013	NA
RS-D365-99 587-592	0.002	NA	0.028	NA
RS-D365-99 592-595.7	0.006	NA	0.041	NA
RS-D365-99 627.9-632	0.000	NA	0.013	NA
RS-D365-99 632-637	0.000	NA	0.009	NA
RS-D365-99 637-638.6	0.015	NA	0.046	NA
RS-D365-99 638.6-641.6	0.001	NA	0.009	NA
RS-D365-99 641.6-646.4	0.001	NA	0.025	NA
RS-D365-99 646.4-650	0.001	NA	0.022	NA
RS-D365-99 650-654.3	0.001	NA	0.014	NA
RS-D365-99 654.3-658	0.001	NA	0.012	NA
RS-D365-99 675.2-682	0.001	NA	0.015	NA
RS-D365-99 682-687	0.001	NA	0.017	NA
RS-D365-99 687-692	0.001	NA	0.024	NA
RS-D365-99 692-699	0.001	NA	0.014	NA
RS-D365-99 699-706	0.001	NA	0.014	NA
RS-D365-99 706-712.5	0.001	NA	0.019	NA

Assay Gap.



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Status: Final

## Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA oz/ton	Ag AA oz/ton	Ag FA oz/ton
RS-D365-99 712.5-717	0.000	NA	0.015	NA
RS-D365-99 717-721.8	0.000	NA	0.011	NA
RS-D365-99 727.7-732	0.000	NA	0.009	NA
RS-D365-99 732-737	0.000	NA	0.011	NA
RS-D365-99 737-742	0.000	NA	0.010	NA
RS-D365-99 742-747	0.005	NA	0.014	NA
RS-D365-99 747-752	0.001	NA	0.016	NA
RS-D365-99 752-757	0.001	NA	0.019	NA
RS-D365-99 757-762	0.002	NA	0.026	NA
RS-D365-99 762-767	0.001	NA	0.018	NA
RS-D365-99 767-771.4	0.001	NA	0.018	NA
RS-D365-99 771.4-772.4	0.000	NA	0.026	NA
RS-D365-99 772.4-773.4	0.002	NA	0.024	NA
RS-D365-99 773.4-777	0.001	NA	0.044	NA
RS-D365-99 777-782	0.000	NA	0.028	NA



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#### Drill Core

Sample Id	Ag ICP ppm	Al ICP %	As ICP ppm	B ICP ppm	Ba ICP ppm	Bi ICP ppm	Ca ICP %	Cd ICP ppm	Co ICP ppm	Cr ICP ppm
RS-D365-99 0-50.7	1.7	0.20	81	33	43	5	0.83	1.4	2	20
RS-D365-99 50.7-102	0.2	0.52	28	27	69	1	0.72	1.0	3	15
RS-D365-99 102-152	0.2	0.49	63	35	19	8	0.30	3.5	4	16
RS-D365-99 152-197.4	<0.1	0.52	19	34	114	3	0.31	1.9	<1	13
RS-D365-99 197.4-247	0.4	0.30	123	28	40	<1	0.26	1.0	<1	13
RS-D365-99 247-297	0.4	0.29	183	34	41	1	0.42	1.0	<1	19
RS-D365-99 297-353	0.4	0.34	82	29	21	1	0.53	0.7	<1	12
RS-D365-99 353-373.5	0.6	0.27	190	25	19	<1	0.53	1.0	<1	14
RS-D365-99 373.5-427	0.1	0.41	97	25	32	4	0.67	1.1	<1	28
RS-D365-99 427-477	0.4	0.52	47	26	61	1	0.87	0.9	<1	43
RS-D365-99 477-502	<0.1	0.51	25	24	160	1	0.82	0.9	<1	52
RS-D365-99 502-527	<0.1	0.63	35	32	51	<1	1.58	0.9	<1	40
RS-D365-99 527-547	<0.1	0.59	68	29	100	3	0.80	1.2	<1	53
RS-D365-99 547-573.1	1.5	0.59	41	26	136	4	1.12	0.9	<1	55
RS-D365-99 573.1-595.7	0.4	0.51	78	29	41	4	0.83	0.9	<1	41
RS-D365-99 627.9-641.6	0.3	0.48	8	15	23	<1	0.35	1.2	<1	40
RS-D365-99 641.6-658	0.3	0.66	9	26	14	4	0.45	0.8	<1	46
RS-D365-99 675.2-706	0.9	0.49	66	19	329	3	3.75	0.6	<1	47
RS-D365-99 706-721.8	1.2	0.55	34	22	299	3	4.17	0.7	<1	63
RS-D365-99 727.7-747	<0.1	0.68	8	27	242	4	0.75	0.9	<1	43



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Attn: Kurt Allen  
Project: RS-D365-99

Certificate of Analysis  
Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R Status: Final

**Drill Core**

Sample Id	Ag ICP ppm	Al ICP %	As ICP ppm	B ICP ppm	Ba ICP ppm	Bi ICP ppm	Ca ICP %	Cd ICP ppm	Co ICP ppm	Cr ICP ppm
RS-D365-99 747-767	0.4	0.55	56	29	100	<1	1.30	1.0	<1	37
RS-D365-99 767-782	1.8	0.35	76	30	145	2	5.87	4.1	4	45

Sample Id	Cu ICP ppm	Fe ICP %	Hg HYG ppb	K ICP %	La ICP ppm	Mg ICP %	Mn ICP ppm	Mo ICP ppm	Na ICP %	Ni ICP ppm
RS-D365-99 0-50.7	17	2.95	24	0.16	18	0.02	280	1	1.46	5

RS-D365-99 0-50.7	17	2.95	24	0.16	18	0.02	280	1	1.46	5
RS-D365-99 50.7-102	13	2.20	47	0.27	28	0.09	511	<1	1.98	11
RS-D365-99 102-152	14	3.00	61	0.18	31	0.07	380	<1	5.29	14
RS-D365-99 152-197.4	8	3.00	109	0.22	36	0.05	314	1	2.55	2
RS-D365-99 197.4-247	6	2.35	37	0.20	48	0.02	273	1	2.04	1
RS-D365-99 247-297	12	2.90	24	0.17	44	0.02	360	1	2.04	2
RS-D365-99 297-353	7	2.30	31	0.22	44	0.02	444	<1	1.61	1
RS-D365-99 353-373.5	7	2.33	14	0.20	42	0.02	338	<1	1.51	1
RS-D365-99 373.5-427	5	2.65	41	0.28	47	0.02	515	<1	1.69	1
RS-D365-99 427-477	5	2.76	75	0.31	48	0.02	595	<1	1.85	2
RS-D365-99 477-502	5	2.48	64	0.35	57	0.02	484	<1	2.28	2
RS-D365-99 502-527	4	2.94	102	0.36	58	0.05	619	<1	1.84	1
RS-D365-99 527-547	7	2.50	78	0.34	54	0.05	466	<1	2.16	2



16-Nov-99

ROSEBUD MINING COMPANY  
P.O. BOX 2610  
58 MILES WEST OF  
WINNEMUCCA, NV 89446

INSPECTORATE AMERICA CORPORATION  
840 Greg Street  
Sparks, Nevada 89431  
Tel: 775-359-6311  
Fax: 775-359-2944

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### Certificate of Analysis

Attn: Kurt Allen  
Project: RS-D365-99

Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R

Status: Final

#### Drill Core

Sample Id	Cu ICP ppm	Fe ICP %	Hg HYG ppb	K ICP %	La ICP ppm	Mg ICP %	Mn ICP ppm	Mo ICP ppm	Na ICP %	Ni ICP ppm
RS-D365-99 547-573.1	7	2.54	64	0.28	47	0.07	497	<1	2.62	2
RS-D365-99 573.1-595.7	12	2.62	75	0.29	45	0.07	291	<1	2.22	2
RS-D365-99 627.9-641.6	5	1.40	27	0.36	42	0.11	261	<1	1.31	2
RS-D365-99 641.6-658	3	2.32	234	0.36	45	0.07	336	<1	1.47	1
RS-D365-99 675.2-706	133	2.06	47	0.37	42	0.06	1305	<1	2.51	2
RS-D365-99 706-721.8	56	2.23	34	0.28	29	0.06	1722	2	2.72	2
RS-D365-99 727.7-747	5	2.52	20	0.29	48	0.06	273	4	2.29	1
RS-D365-99 747-767	33	2.57	44	0.29	49	0.05	433	4	2.56	1
RS-D365-99 767-782	31	2.87	44	0.22	14	0.35	604	31	3.07	36

Sample Id	P ICP ppm	Pb ICP ppm	Sb ICP ppm	Se ICP ppm	Sr ICP ppm	Ti ICP %	Tl ICP ppm	V ICP ppm	W ICP ppm	Zn ICP ppm
RS-D365-99 0-50.7	196	35	2	9.1	132	<0.01	<0.5	3	<1	82
RS-D365-99 50.7-102	302	34	<2	<0.5	238	<0.01	<0.5	4	<1	98
RS-D365-99 102-152	230	43	<2	<0.5	130	<0.01	<0.5	5	<1	204
RS-D365-99 152-197.4	90	43	<2	<0.5	127	<0.01	<0.5	2	<1	115
RS-D365-99 197.4-247	86	37	<2	1.3	99	<0.01	<0.5	<2	<1	102
RS-D365-99 247-297	76	38	4	1.7	97	<0.01	<0.5	2	<1	89
RS-D365-99 297-353	61	32	<2	<0.5	94	<0.01	<0.5	<2	<1	85



16-Nov-99

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INSPECTORATE AMERICA CORPORATION  
840 Greg Street  
Sparks, Nevada 89431  
Tel:775-359-6311  
Fax: 775-359-2944

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Attn: Kurt Allen  
Project: RS-D365-99

Certificate of Analysis  
Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R Status: Final

Drill Core

Sample Id	P ICP ppm	Pb ICP ppm	Sb ICP ppm	Se ICP ppm	Sr ICP ppm	Ti ICP %	Tl ICP ppm	V ICP ppm	W ICP ppm	Zn ICP ppm
RS-D365-99 353-373.5	61	34	<2	4.3	138	<0.01	<0.5	<2	<1	86
RS-D365-99 373.5-427	68	32	<2	<0.5	122	<0.01	<0.5	<2	<1	93
RS-D365-99 427-477	66	35	<2	<0.5	175	<0.01	<0.5	<2	<1	107
RS-D365-99 477-502	76	32	<2	<0.5	201	<0.01	<0.5	<2	<1	92
RS-D365-99 502-527	70	32	<2	<0.5	425	<0.01	<0.5	<2	<1	101
RS-D365-99 527-547	62	32	<2	<0.5	220	<0.01	<0.5	<2	<1	114
RS-D365-99 547-573.1	58	29	<2	<0.5	317	<0.01	<0.5	<2	<1	101
RS-D365-99 573.1-595.7	45	30	<2	0.8	266	<0.01	<0.5	<2	<1	70
RS-D365-99 627.9-641.6	48	43	2	1.0	150	<0.01	<0.5	<2	<1	70
RS-D365-99 641.6-658	65	35	<2	<0.5	162	<0.01	<0.5	<2	<1	106
RS-D365-99 675.2-706	51	61	<2	<0.5	480	<0.01	<0.5	<2	<1	101
RS-D365-99 706-721.8	43	40	<2	<0.5	429	<0.01	<0.5	<2	<1	87
RS-D365-99 727.7-747	77	35	<2	<0.5	115	<0.01	<0.5	<2	<1	101
RS-D365-99 747-767	62	40	<2	<0.5	158	<0.01	<0.5	<2	<1	115
RS-D365-99 767-782	472	31	6	1.6	72	<0.01	<0.5	6	<1	342



16-Nov-99

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Attn: Kurt Allen  
Project: RS-D365-99

Certificate of Analysis  
Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R Status: Final

Abbreviations:

Parameters:

Au	: Gold
Ag	: Silver
Al	: Aluminum
As	: Arsenic
B	: Boron
Ba	: Barium
Bi	: Bismuth
Ca	: Calcium
Cd	: Cadmium
Co	: Cobalt
Cr	: Chromium
Cu	: Copper
Fe	: Iron
Hg	: Mercury
K	: Potassium
La	: Lanthanum
Mg	: Magnesium
Mn	: Manganese
Mo	: Molybdenum
Na	: Sodium
Ni	: Nickel
P	: Phosphorus
Pb	: Lead



16-Nov-99

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Certificate of Analysis  
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PO #: Rocky 99-37-22

Job: 993740R Status: Final

Sb : Antimony  
Se : Selenium  
Sr : Strontium  
Ti : Titanium  
Tl : Thallium  
V : Vanadium  
W : Tungsten  
Zn : Zinc

Methods:

FA/AA/AAS : Fire Assay/Atomic Absorption Finish  
FA : Fire Assay/Gravimetric Finish  
AA : Atomic Absorption  
ICP : Inductively Coupled Plasma  
HYG : Hydride Generation

Units:

oz/ton : ounces per ton  
ppm : Parts per million  
% : percent  
ppb : Parts per billion

Quality codes:

< : Less than



16-Nov-99

ROSEBUD MINING COMPANY  
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Attn: Kurt Allen  
Project: RS-D365-99

**Certificate of Analysis**

Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R Status: Final

NA : Not Analyzed



16-Nov-99

ROSEBUD MINING COMPANY  
P.O. BOX 2610  
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Copy: 1 of 2

### Certificate of Analysis

Attn: Kurt Allen  
Project: RS-D365-99

Received: 8-Nov-99 11:42  
PO #: Rocky 99-37-22

Job: 993740R Status: Final

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 geologic 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.

Job approved by:

Signed:

.....

Dave Francisco  
Laboratory Manager

ppB = X .00029  
 1000 ppB = 1 ppm .029  
 1 ppm = .0292

Light + Bulbs      1800 Hecta 91  
 Ext 145-

		ppB	
1	0.004	130	597.7 - 601
—	0.270	1702	882.9237 601 - 603.6 2.6
600 1 - 617	0.092	1313	3152 603.6 - 607 3.4
16 @	0.444	287	21370 607 - 611.6 4.6
0.624	2.698		24330 611.6 - 615.4 3.8
0.710	2.698		11892 615.4 - 617 1.6
0.347	.555		858 617 - 620.8
0.025			492 620.8 - 622.6
0.014			1039 622.6 - 624.8
0.030			169 624.8 - 625.8
0.005			432 625.8 - 627.8
0.013			
—	0.184	736	6302 658 - 662 4
658 -	0.104	1083	3571 662 - 662.8 0.8
667 - 39 @	0.566	1019	19382 662.8 - 664.6 1.8
245	0.152	365	5206 664.6 - 667 2.4
—	0.002	57	667 - 672
0.005	170		672 - 675.2
0.001	48		721.8 - 725-
0.002	57		725 - 727.7



# BARRINGER LABORATORIES, INC.

RENO, NEVADA, U.S.A., 5301 Longley Lane, Bldg. E, Reno, NV, 89511, TEL: 702-828-1158, FAX: 702-828-1263

**BARRINGER LABORATORIOS  
de MEXICO, S.A.de C.V.**

Carretera Panamericana, KM 10445  
Durango, Durango, Mexico C.P. 34030  
TEL/FAX (52)(18) 12-00-52

**BARRINGER LABORATORIES  
del PERU S.A.**

Avenida Domingo Orué 489  
Surquillo, Lima 34, Peru  
TEL (011-51-1) 222-2801  
FAX (011-51-1) 442-7195

**BARRINGER de COLOMBIA**

Calle 80 Sur N. 47D-65, L-106  
Sabaneta, Colombia  
TEL (574) 301-0704

**BARRINGER LABORATORIOS  
de MEXICO, S.A. de C.V.**

Bvd. García Morales 829-A, Bodega #2  
Colonia La Manga  
Hermosillo, Sonora, Mexico C.P. 83210  
TEL/FAX (011-52-6) 261-0415

**BARRINGER LABORATORIES**

**NICARAGUA**  
COMPLEJO OCAL  
Km 7.5 Carretera Norte  
Managua, Nicaragua  
TEL (011-50-5) 883-0778

**McCLELLAND/BARRINGER**

**LABORATORIOS HONDURAS**  
Kilometro 5,  
Boulevard Suyapa  
Tegucigalpa, M.D.C., Honduras  
TEL (011-50-4) 231-1841

Work Order #	_____
Date Received	_____
Purchase Order #	_____
Project #	_____
Date Shipped	_____
Shipped Via	_____
# of Cartons	_____
# of Samples	_____

## Geochemical Laboratory Instruction Sheet

Copy of Results:	Results And Invoice To:
EMAIL to alien@the-onramp.net	Kurt Allen Hecla Mining Co.
	AUTHORITY:

No. of Samples	Sample Type	List of Sample Numbers	Elements Requested
19	CORE	597.7-601 658-662 721.8-725	Ag/Ag + ICP
		601-603.6 662-662.8 725-727.7	ROSEBUD sample prep
		603.6-607 662.8-664.6	
		607-611.6 664.6-667	
		611.6-615.4 667-672	
		615.4-617 672-675.2	
		617-620.8	
		620.8-622.6	
		622.6-624.8	
		624.8-625.8	
		625.8-627.9	

### COARSE REJECT (Free storage for 30 days)

- Return/collect after analysis
- Return/collect after 30 days
- Discard after 30 days

IF NOT MARKED, REJECT DISCARDED AFTER 30 DAYS

### PULP (Free storage for 6 months)

- Return/collect after analysis
- Return/collect at 6 months
- Discard at 6 months

IF NOT MARKED, PULP IS DISCARDED AFTER 6 MONTHS

**COARSE REJECTS/PULPS WILL BE DISCARDED  
UNLESS OTHERWISE REQUESTED**

### Au - GOLD METHOD

- Fire Assay/A.A.
- Fire Assay/Gravimetric
- NaCN/A.A.

### RESULTS REPORTED IN:

- |                               |                                  |
|-------------------------------|----------------------------------|
| <input type="checkbox"/> ppb  | <input type="checkbox"/> PPM     |
| <input type="checkbox"/> oz/T | <input type="checkbox"/> grams/T |

### TRACE ELEMENT METHOD

- Wet Chem./A.A.
- Wet Chem./ICP

### RESULTS REPORTED IN:

- |                               |                                    |
|-------------------------------|------------------------------------|
| <input type="checkbox"/> ppm  | <input type="checkbox"/> Percent % |
| <input type="checkbox"/> oz/T | <input type="checkbox"/> grams/T   |

ADDITIONAL INSTRUCTIONS: Rush



# **BARRINGER LABORATORIES, INC.**

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BARRINGER LABORATORIOS  
de MEXICO, S.A.de C.V.

BARRINGER LABORATORIES  
del PERU S.A.

*BARRINGER de COLOMBIA*  
Calle 80 Sur N. 47D-65, L-106  
Sabaneta, Colombia  
TEL (574) 301-0704

Carretera Panamericana, KM 10445  
Durango, Durango, Mexico C.P. 34030  
TEL/FAX (52)(18) 12-00-52

Avenida Domingo Orué 489  
Surquillo, Lima 34, Peru  
TEL (011-51-1) 222-2801  
FAX (011-51-1) 442-7195

**BARRINGER LABORATORIOS  
de MEXICO, S.A. de C.V.**  
**Blvd. García Morales 829-A, Bodega #22**  
**Colonia La Manga**  
**Hermosillo, Sonora, Mexico C.P. 83210**  
**TEL/FAX (011-52-6) 261-0415**

BARRINGER LABORATORIES  
NICARAGUA  
COMPLEJO OCAL  
Km 7.5 Carretera Norte  
Managua, Nicaragua  
TEL (011-50-5) 883-0778

*McCLELLAND/BARRINGER  
LABORATORIOS HONDURAS*  
Kilometro 5,  
Boulevard Suyapa  
Tegucigalpa, M.D.C., Honduras  
TEL (011-50-4) 231-1841

Work Order # \_\_\_\_\_  
Date Received \_\_\_\_\_  
Purchase Order # \_\_\_\_\_  
Project # \_\_\_\_\_  
Date Shipped 10/10/91  
Shipped Via \_\_\_\_\_  
# of Cartons \_\_\_\_\_  
# of Samples 155 + 1 A/L

# **Geochemical Laboratory Instruction Sheet**

Copy of Results:	Results And Invoice To:
Fax to Kurt Allen	Kurt Allen
(775)-623-6967	Rosenbud Mining Co.
	P.O. Box 2610
	Winnemucca
	AUTHORITY:

#### **COARSE REJECT (Free storage for 30 days)**

- Return/collect after analysis  
 Return/collect after 30 days  
 Discard after 30 days

**IF NOT MARKED, REJECT DISCARDED AFTER 30 DAYS**

**PULP (Free storage for 6 months)**

- Return/collect after analysis
  - Return/collect at 6 months
  - Discard at 6 months

IF NOT MARKED, PULP IS DISCARDED AFTER 6 MONTHS

**COARSE REJECTS/PULPS WILL BE DISCARDED  
UNLESS OTHERWISE REQUESTED**

## Au - GOLD METHOD

- Fire Assay/A.A.
  - Fire Assay/Gravimetric
  - NaCN/A.A.

## RESULTS REPORTED IN:

- ppb       PPM  
 oz/T       grams/T

## TRACE ELEMENT METHOD

- Wet Chem./A.A.
  - Wet Chem./ICP

## RESULTS REPORTED IN:

- ppm       Percent %  
 oz/T       grams/T

**ADDITIONAL INSTRUCTIONS:**

Results go only to Hart Allen

## RS-D365-99

Depth		ICP	Composite Interval	Sample Number
From	To			
0	7	7	x	x
7	12	5	x	x
12	17	5	x	x
17	20.7	3.7	x	x
20.7	21.7	1	x	x
21.7	23	1.3	x	x
23	27	4	x	x
27	32	5	x	x
32	37	5	x	x
37	42.7	5.7	x	x
42.7	44.5	1.8	x	x
44.5	46.4	1.9	x	x
46.4	47.6	1.2	x	x
47.6	50.7	3.1	x	x
			x	50.7
50.7	57	6.3	x	x
57	62	5	x	x
62	67	5	x	x
67	72	5	x	x
72	77	5	x	x
77	82	5	x	x
82	87	5	x	x
87	92	5	x	x
92	97.3	5.3	x	x
97.3	102	4.7	x	x
			x	51.3
102	107	5	x	x
107	112	5	x	x
112	117	5	x	x
117	122	5	x	x
122	126.4	4.4	x	x
126.4	127.7	1.3	x	x
127.7	132	4.3	x	x
132	137	5	x	x
137	142	5	x	x
142	148.1	6.1	x	x
148.1	152	3.9	x	x
			x	50
152	155	3	x	x
155	160.4	5.4	x	x
160.4	163.5	3.1	x	x
163.5	167	3.5	x	x
167	172	5	x	x
172	177	5	x	x

177	182	5	x	x			42
182	187	5	x	x			43
187	192	5	x	x			44
192	197.4	5.4	x	x	x	45.4	45
197.4	202	4.6	x	x			46
202	207	5	x	x			47
207	212	5	x	x			48
212	219.4	7.4	x	x			49
219.4	221.2	1.8	x	x			50
221.2	227	5.8	x	x			51
227	232	5	x	x			52
232	237	5	x	x			53
237	242	5	x	x			54
242	247	5	x	x	x	49.6	55
247	251.2	4.2	x	x			56
251.2	259	7.8	x	x			57
259	262	3	x	x			58
262	267	5	x	x			59
267	272	5	x	x			60
272	277	5	x	x			61
277	282	5	x	x			62
282	287	5	x	x			63
287	292	5	x	x			64
292	297	5	x	x	x	50	65
297	302	5	x	x			66
302	307	5	x	x			67
307	312	5	x	x			68
312	317	5	x	x			69
317	322	5	x	x			70
322	327	5	x	x			71
327	332	5	x	x			72
332	337	5	x	x			73
337	342	5	x	x			74
342	347	5	x	x			75
347	353	6	x	x	x	55	76
353	358	5	x	x			77
358	363	5	x	x			78
363	368	5	x	x			79
368	373.5	5.5	x	x	x	20.5	80

373.5	378	4.5	x	x			81
378	383	5	x	x			82
383	388	5	x	x			83
388	393.7	5.7	x	x			84
393.7	397	3.3	x	x			85
397	402	5	x	x			86
402	407	5	x	x			87
407	412	5	x	x			88
412	417	5	x	x			89
417	422	5	x	x			90
422	427	5	x	x	x	53.5	91
427	434.4	7.4	x	x			92
434.4	437	2.6	x	x			93
437	441.3	4.3	x	x			94
441.3	447	5.7	x	x			95
447	452	5	x	x			96
452	457	5	x	x			97
457	462	5	x	x			98
462	465.5	3.5	x	x			99
465.5	469.8	4.3	x	x			100
469.8	477	7.2	x	x	x	50	101
477	482	5	x	x			102
482	486.7	4.7	x	x			103
486.7	490.3	3.6	x	x			104
490.3	497	6.7	x	x			105
497	502	5	x	x	x	25	106
502	507	5	x	x			107
507	512	5	x	x			108
512	518.7	6.7	x	x			109
518.7	522.4	3.7	x	x			110
522.4	527	4.6	x	x	x	25	111
527	533.4	6.4	x	x			112
533.4	535.4	2	x	x			113
535.4	537	1.6	x	x			114
537	541.9	4.9	x	x			115
541.9	547	5.1	x	x	x	20	116
547	552	5	x	x			117
552	557	5	x	x			118
557	562	5	x	x			119
562	567	5	x	x			120
567	573.1	6.1	x	x	x	26.1	121

573.1	577	3.9	x	x			122
577	582	5	x	x			123
582	587	5	x	x			124
587	592	5	x	x			125
592	595.7	3.7	x	x	x	22.6	126

**Previously Submitted**

627.9	632	4.1	x	x			127
632	637	5	x	x			128
637	638.6	1.6	x	x			129
638.6	641.6	3	x	x	x	13.7	130
641.6	646.4	4.8	x	x			131
646.4	650	3.6	x	x			132
650	654.3	4.3	x	x			133
654.3	658	3.7	x	x	x	16.4	134

**Previously Submitted**

675.2	682	6.8	x	x			135
682	687	5	x	x			136
687	692	5	x	x			137
692	699	7	x	x			138
699	706	7	x	x	x	30.8	139
706	712.5	6.5	x	x			140
712.5	717	4.5	x	x			141
717	721.8	4.8	x	x	x	15.8	142

**Previously Submitted**

727.7	732	4.3	x	x			143
732	737	5	x	x			144
737	742	5	x	x			145
742	747	5	x	x	x	19.3	146
747	752	5	x	x			147
752	757	5	x	x			148
757	762	5	x	x			149
762	767	5	x	x	x	20	150
767	771.4	4.4	x	x			151
771.4	772.4	1	x	x			152
772.4	773.4	1	x	x			153
773.4	777	3.6	x	x			154
777	782	5	x	x	x	15	155



# BARRINGER LABORATORIES, INC.

RENO, NEVADA, U.S.A., 5301 Longley Lane, Bldg. E, Reno, NV, 89511, TEL: 702-828-1158, FAX: 702-828-1263

**BARRINGER LABORATORIOS**  
de MEXICO, S.A. de C.V.

Carretera Panamericana, KM 10445  
Durango, Durango, Mexico C.P. 34030  
TEL/FAX (52)(18) 12-00-52

**BARRINGER LABORATORIES**  
del PERU S.A.

Avenida Domingo Orué 489  
Surquillo, Lima 34, Peru  
TEL (011-51-1) 222-2801  
FAX (011-51-1) 442-7195

**BARRINGER de COLOMBIA**  
Calle 80 Sur N. 47D-65, L-106  
Sabaneta, Colombia  
TEL (574) 301-0704

**BARRINGER LABORATORIOS**  
de MEXICO, S.A. de C.V.  
Blvd. García Morales 829-A, Bodega #2  
Colonia La Manga  
Hermosillo, Sonora, Mexico C.P. 83210  
TEL/FAX (011-52-6) 261-0415

**BARRINGER LABORATORIES**  
NICARAGUA  
COMPLEJO OCAL  
Km 7.5 Carretera Norte  
Managua, Nicaragua  
TEL (011-50-5) 883-0778

**McCLELLAND/BARRINGER**  
**LABORATORIOS HONDURAS**  
Kilometro 5,  
Boulevard Suyapa  
Tegucigalpa, M.D.C., Honduras  
TEL (011-50-4) 231-1841

Work Order #	
Date Received	
Purchase Order #	
Project #	
Date Shipped	10/20/99
Shipped Via	
# of Cartons	
# of Samples	43

## Geochemical Laboratory Instruction Sheet

Copy of Results:	Results And Invoice To:
Kurt Allen : Rosebud Mine	Kurt Allen
Fax #: 775-623-6967	Rosebud Mine
	P.O. Box 2610
	Winnemucca NV 89445
	AUTHORITY:

No. of Samples	Sample Type	List of Sample Numbers	Elements Requested
43	Core	RS- D365-99	Au, Ag, Use Rosebud drilling Mine development protocol
			NGC 30 element ICP Partial digestion complete as shown on attachment.
1	Pulp	Rosebud Production Standard @ end of hole	Au, Ag - No ICP

### COARSE REJECT (Free storage for 30 days)

- Return/collect after analysis
- Return/collect after 30 days
- Discard after 30 days

IF NOT MARKED, REJECT DISCARDED AFTER 30 DAYS

### PULP (Free storage for 6 months)

- Return/collect after analysis
- Return/collect at 6 months
- Discard at 6 months

IF NOT MARKED, PULP IS DISCARDED AFTER 6 MONTHS

**COARSE REJECTS/PULPS WILL BE DISCARDED  
UNLESS OTHERWISE REQUESTED**

### Au - GOLD METHOD

- Fire Assay/A.A.
- Fire Assay/Gravimetric
- NaCN/A.A.

### RESULTS REPORTED IN:

- ppb
- PPM
- oz/T
- grams/T

### TRACE ELEMENT METHOD

- Wet Chem./A.A.
- Wet Chem./ICP

### RESULTS REPORTED IN:

- ppm
- Percent %
- oz/T
- grams/T

### ADDITIONAL INSTRUCTIONS:

Results only to Kurt Allen

## RS-D365-99

Depth		ICP	Composite Interval	Sample Number
From	To			
782	787	5	x	x
787	791	4	x	x
791	794.8	3.8	x	x
			x	12.8
794.8	797	2.2	x	x
797	802	5	x	x
802	803	1	x	x
803	807	4	x	x
807	812	5	x	x
812	816	4	x	x
816	821	5	x	x
821	825.5	4.5	x	x
825.5	828	2.5	x	x
828	833	5	x	x
			x	38.2
833	835	2	x	x
835	840.2	5.2	x	x
			x	7.2
840.2	843	2.8	x	x
843	847	4	x	x
847	852	5	x	x
852	857	5	x	x
857	862	5	x	x
862	867	5	x	x
867	872	5	x	x
872	877	5	x	x
877	882	5	x	x
			x	41.8
882	885	3	x	x
885	890	5	x	x
890	894	4	x	x
894	897	3	x	x
897	903.5	6.5	x	x
903.5	908	4.5	x	x
908	913	5	x	x
913	918	5	x	x
918	923	5	x	x
923	928	5	x	x
928	933	5	x	x
			x	51
933	938	5	x	x
938	943	5	x	x
943	948	5	x	x
948	953	5	x	x
953	958	5	x	x
958	963	5	x	x
963	968	5	x	x
968	974	6	x	x
			x	40
				43

Down Hole Survey Data  
RS-D365-99

Footage	Measured Bearing	Corrected Azimuth	Measured Inclination	Calculated Dip
		-15.66		
52	47	328.7	48.5	-41.5
252	49	326.7	47.9	-42.1
457	49.5	326.2	46.8	-43.2
652	49.0	326.7	46.9	-43.1
802	43.0	332.7	46.5	-43.5

STLDHS.CR5 11/16/99 13:15:50

Point	Northing	Easting	Elevation	Description
1	2,204,077.9767	481,650.8979	4,474.33	T25-1BS
100	2,204,083.1875	481,613.3999	4,455.90	367
101	2,204,084.1813	481,611.0849	4,455.86	365
102	2,204,083.9791	481,608.9906	4,457.39	355
103	2,204,083.0992	481,612.2299	4,454.96	366
104	2,204,081.9211	481,612.1134	4,455.57	364

Completed For

ROSEBUD MINING COMPANY LLC  
 P.O. BOX 2610  
 58 MILES WEST OF  
 WINNEMUCCA, NV 89446

18-Oct-99

Page: 1  
 Copy: 1 of 1  
 Set : 1

Attn: Kurt Allen  
 Project: RS-D365-99

Received: 14-Oct-99 22:18

PO #:

Job: 99364/R

Status: Preliminary

## Drill Core

Sample Id	Au FA/AA ppb	Au FA/AA oz/ton	Ag AA ppm	Ag AA oz/ton
RS-D365 597.7-601	130	0.004	1.9	0.055
RS-D365 601-603.6	9237	0.283	18.2	0.531
RS-D365 603.6-607	3152	0.092	6.4	0.187
RS-D365 607-611.6	21370	0.627	45.0	1.588
RS-D365 611.6-615.4	24330	0.731	111.0	3.610
RS-D365 615.4-617	11892	0.282	15.7	0.458
RS-D365 617-620.8	858	0.025	1.9	0.055
RS-D365 620.8-622.6	492	0.014	1.4	0.041
RS-D365 622.6-624.8	1039	0.030	2.8	0.082
RS-D365 624.8-625.8	169	0.005	0.5	0.015
RS-D365 625.8-627.9	432	0.013	4.8	0.140
RS-D365 658-662	6302	0.208	19.9	0.581
RS-D365 662-662.8	3571	0.097	10.4	0.304
RS-D365 662.8-664.6	19382	0.494	115.0	3.358
RS-D365 664.6-667	5206	0.180	19.3	0.564
RS-D365 667-672	57	0.002	0.4	0.012
RS-D365 672-675.2	170	0.008	331.0	8.460
RS-D365 721.8-725	48	0.001	5.6	0.164
RS-D365 725-727.7	57	0.002	1.7	0.050

Pending analyses:

Ag ICP ppm  
 Al ICP %  
 As ICP ppm  
 B ICP ppm  
 Ba ICP ppm  
 Bi ICP ppm  
 Ca ICP %  
 Cd ICP ppm  
 Co ICP ppm

## D365C

RS-D365-99

Depth		ICP	Composite Interval	Sample Number
From	To			
0	7	7	x	x
7	12	5	x	x
12	17	5	x	x
17	20.7	3.7	x	x
20.7	21.7	1	x	x
21.7	23	1.3	x	x
23	27	4	x	x
27	32	5	x	x
32	37	5	x	x
37	42.7	5.7	x	x
42.7	44.5	1.8	x	x
44.5	46.4	1.9	x	x
46.4	47.6	1.2	x	x
47.6	50.7	3.1	x	x
			x	50.7
50.7	57	6.3	x	x
57	62	5	x	x
62	67	5	x	x
67	72	5	x	x
72	77	5	x	x
77	82	5	x	x
82	87	5	x	x
87	92	5	x	x
92	97.3	5.3	x	x
97.3	102	4.7	x	x
			x	51.3
102	107	5	x	x
107	112	5	x	x
112	117	5	x	x
117	122	5	x	x
122	126.4	4.4	x	x
126.4	127.7	1.3	x	x
127.7	132	4.3	x	x
132	137	5	x	x
137	142	5	x	x
142	148.1	6.1	x	x
148.1	152	3.9	x	x
			x	50
152	155	3	x	x
155	160.4	5.4	x	x
160.4	163.5	3.1	x	x
163.5	167	3.5	x	x
167	172	5	x	x
172	177	5	x	x

## D365C

177	182	5	x	x			42
182	187	5	x	x			43
187	192	5	x	x			44
192	197.4	5.4	x	x	x	45.4	45
197.4	202	4.6	x	x			46
202	207	5	x	x			47
207	212	5	x	x			48
212	219.4	7.4	x	x			49
219.4	221.2	1.8	x	x			50
221.2	227	5.8	x	x			51
227	232	5	x	x			52
232	237	5	x	x			53
237	242	5	x	x			54
242	247	5	x	x	x	49.6	55
247	251.2	4.2	x	x			56
251.2	259	7.8	x	x			57
259	262	3	x	x			58
262	267	5	x	x			59
267	272	5	x	x			60
272	277	5	x	x			61
277	282	5	x	x			62
282	287	5	x	x			63
287	292	5	x	x			64
292	297	5	x	x	x	50	65
297	302	5	x	x			66
302	307	5	x	x			67
307	312	5	x	x			68
312	317	5	x	x			69
317	322	5	x	x			70
322	327	5	x	x			71
327	332	5	x	x			72
332	337	5	x	x			73
337	342	5	x	x			74
342	347	5	x	x			75
347	353	6	x	x	x	55	76
353	358	5	x	x			77
358	363	5	x	x			78
363	368	5	x	x			79
368	373.5	5.5	x	x	x	20.5	80
373.5	378	4.5	x	x			81
378	383	5	x	x			82
383	388	5	x	x			83
388	393.7	5.7	x	x			84
393.7	397	3.3	x	x			85

## D365C

397	402	5	x	x			86
402	407	5	x	x			87
407	412	5	x	x			88
412	417	5	x	x			89
417	422	5	x	x			90
422	427	5	x	x	x	53.5	91
427	434.4	7.4	x	x			92
434.4	437	2.6	x	x			93
437	441.3	4.3	x	x			94
441.3	447	5.7	x	x			95
447	452	5	x	x			96
452	457	5	x	x			97
457	462	5	x	x			98
462	465.5	3.5	x	x			99
465.5	469.8	4.3	x	x			100
469.8	477	7.2	x	x	x	50	101
477	482	5	x	x			102
482	486.7	4.7	x	x			103
486.7	490.3	3.6	x	x			104
490.3	497	6.7	x	x			105
497	502	5	x	x	x	25	106
502	507	5	x	x			107
507	512	5	x	x			108
512	518.7	6.7	x	x			109
518.7	522.4	3.7	x	x			110
522.4	527	4.6	x	x	x	25	111
527	533.4	6.4	x	x			112
533.4	535.4	2	x	x			113
535.4	537	1.6	x	x			114
537	541.9	4.9	x	x			115
541.9	547	5.1	x	x	x	20	116
547	552	5	x	x			117
552	557	5	x	x			118
557	562	5	x	x			119
562	567	5	x	x			120
567	573.1	6.1	x	x	x	26.1	121
573.1	577	3.9	x	x			122
577	582	5	x	x			123
582	587	5	x	x			124
587	592	5	x	x			125
592	595.7	3.7	x	x	x	22.6	126
595.7	601	5.3	x	x	x		127
601	603.6	2.6	x	x	x	7.9	128
603.6	607	3.4	x	x	x	3.4	129

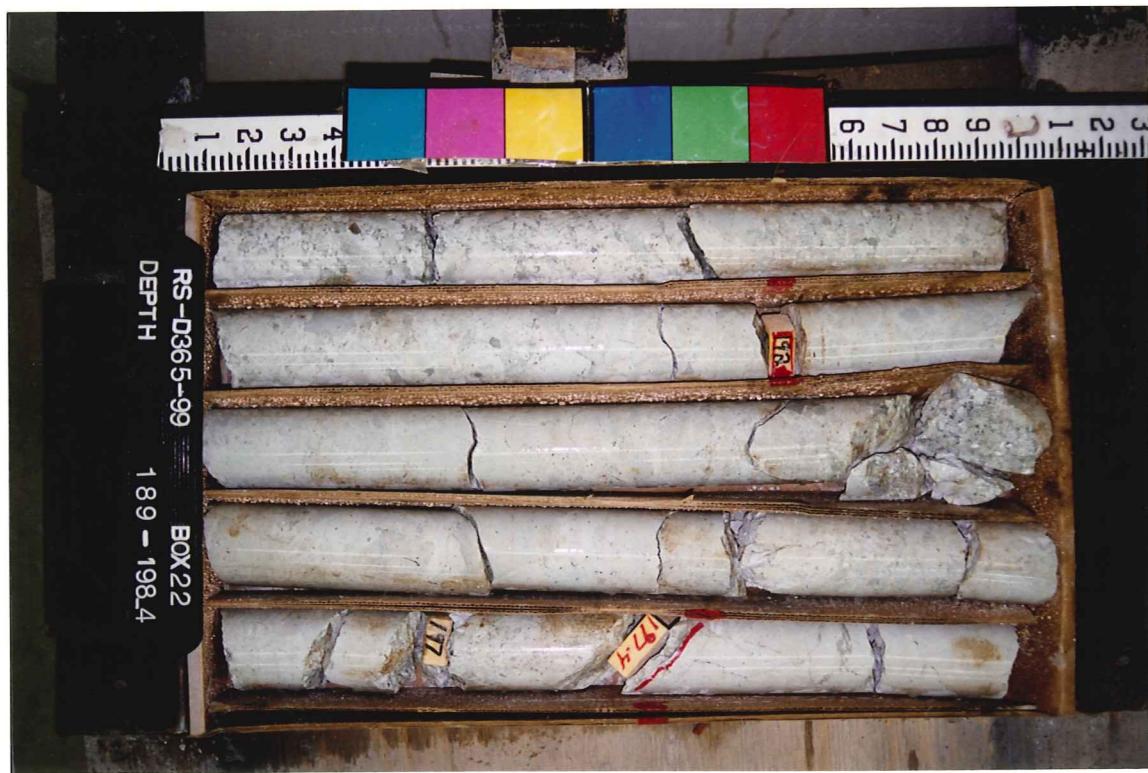
## D365C

607	611.6	4.6	x	x	x	4.6	130
611.6	615.4	3.8	x	x	x	3.8	131
615.4	617	1.6	x	x	x	1.6	132
617	620.8	3.8	x	x	x	3.8	133
620.8	622.6	1.8	x	x	x	5.6	134
622.6	624.8	2.2	x	x	x	2.2	135
624.8	625.8	1	x	x	x	1	136
625.8	627.9	2.1	x	x	x	2.1	137
627.9	632	4.1	x	x			138
632	637	5	x	x			139
637	638.6	1.6	x	x			140
638.6	641.6	3	x	x	x	13.7	141
641.6	646.4	4.8	x	x			142
646.4	650	3.6	x	x			143
650	654.3	4.3	x	x			144
654.3	658	3.7	x	x	x	16.4	145
658	662	4	x	x			146
662	662.8	0.8	x	x			147
662.8	664.6	1.8	x	x			148
664.6	667	2.4	x	x	x	9	149
667	672	5	x	x			150
672	675.2	3.2	x	x			151
675.2	682	6.8	x	x			152
682	687	5	x	x	x	20	153
687	692	5	x	x			154
692	699	7	x	x			155
699	706	7	x	x	x	19	156
706	712.5	6.5	x	x			157
712.5	717	4.5	x	x			158
717	721.8	4.8	x	x	x	15.8	159
721.8	725	3.2	x	x	x	3.2	160
725	727.7	2.7	x	x	x	2.7	161
727.7	732	4.3	x	x			162
732	737	5	x	x			163
737	742	5	x	x			164
742	747	5	x	x	x	19.3	165
747	752	5	x	x			166
752	757	5	x	x			167
757	762	5	x	x			168
762	767	5	x	x	x	20	169
767	771.4	4.4	x	x			170
771.4	772.4	1	x	x			171
772.4	773.4	1	x	x			172
773.4	777	3.6	x	x			173

## D365C

777	782	5	x	x	x	15	174
782	787	5	x	x			175
787	791	4	x	x			176
791	794.8	3.8	x	x	x	12.8	177
794.8	797	2.2	x	x			178
797	802	5	x	x			179
802	803	1	x	x			180
803	807	4	x	x			181
807	812	5	x	x			182
812	816	4	x	x			183
816	821	5	x	x			184
821	825.5	4.5	x	x			185
825.5	828	2.5	x	x			186
828	833	5	x	x	x	38.2	187
833	835	2	x	x			188
835	840.2	5.2	x	x	x	7.2	189
840.2	843	2.8	x	x			190
843	847	4	x	x			191
847	852	5	x	x			192
852	857	5	x	x			193
857	862	5	x	x			194
862	867	5	x	x			195
867	872	5	x	x			196
872	877	5	x	x			197
877	882	5	x	x	x	41.8	198
882	885	3	x	x			199
885	890	5	x	x			200
890	894	4	x	x			201
894	897	3	x	x			202
897	903.5	6.5	x	x			203
903.5	908	4.5	x	x			204
908	913	5	x	x			205
913	918	5	x	x			206
918	923	5	x	x			207
923	928	5	x	x			208
928	933	5	x	x	x	51	209
933	938	5	x	x			210
938	943	5	x	x			211
943	948	5	x	x			212
948	953	5	x	x			213
953	958	5	x	x			214
958	963	5	x	x			215
963	968	5	x	x			216
968	974	6	x	x	x	40	217





3  
2  
1  
9  
8  
7  
6



3  
2  
1  
9  
8  
7  
6



4  
3  
2  
1

9  
8  
7  
6







**RS-D365-99** **BOX29**  
**DEPTH** **268-277**



RS-D365-99 BOX28B  
DEPTH 241\_5-250\_8



3  
2  
1  
9  
8  
7  
6



RS-D365-99      BOX 31  
DEPTH            286.5 - 295.5

3  
2  
1  
9  
8  
7  
6



RS-D365-99      BOX 30  
DEPTH            277 - 286.5



RS-D365-99      BOX 32  
DEPTH            295.5 - 304.5





RS-D365-99      BOX 34  
DEPTH            314 - 323



RS-D365-99      BOX 33  
DEPTH            304.5 - 314



RS-D365-99      BOX 35  
DEPTH            323 - 332







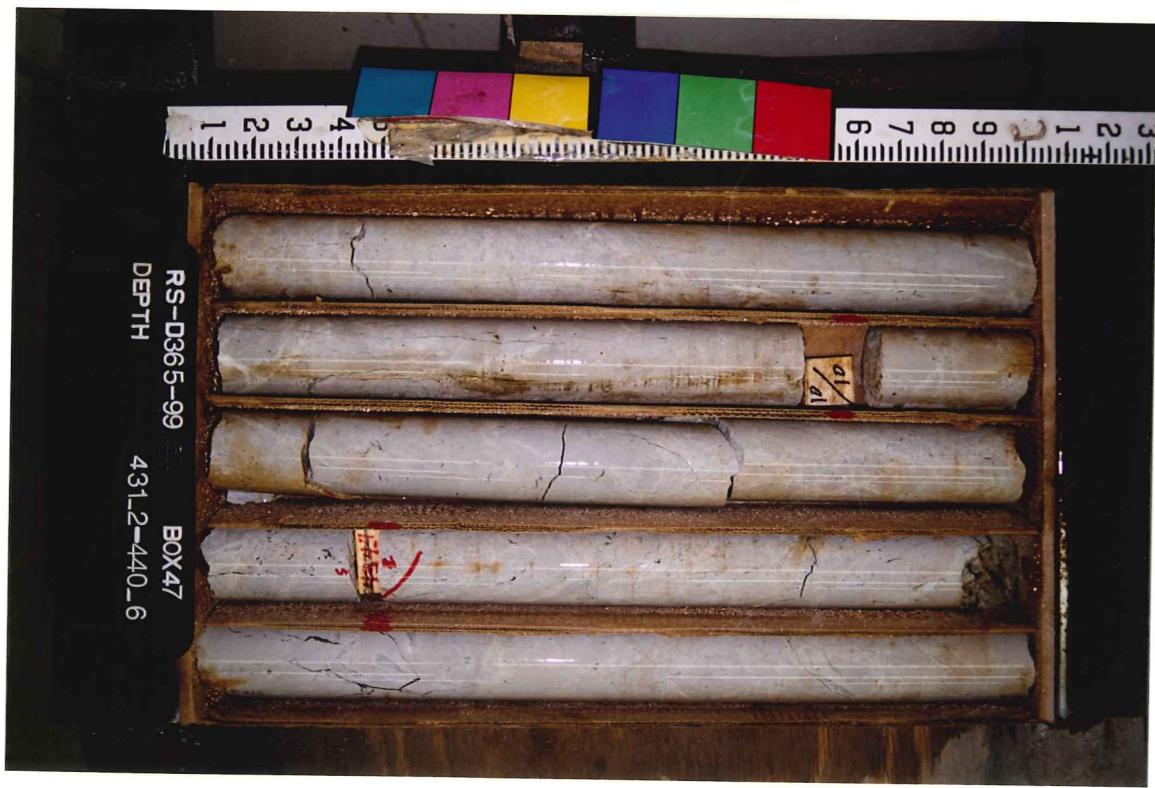


RS-D365-99      BOX46  
DEPTH            422\_6-431\_2



RS-D365-99      BOX45  
DEPTH            414\_3-422\_6

RS-D365-99      BOX47  
DEPTH            431\_2-440\_6







RS-D365-99  
DEPTH  
486 - 496  
BOX 53



3  
2  
1  
9  
8  
7  
6



4  
3  
2  
1  
9  
8  
7  
6

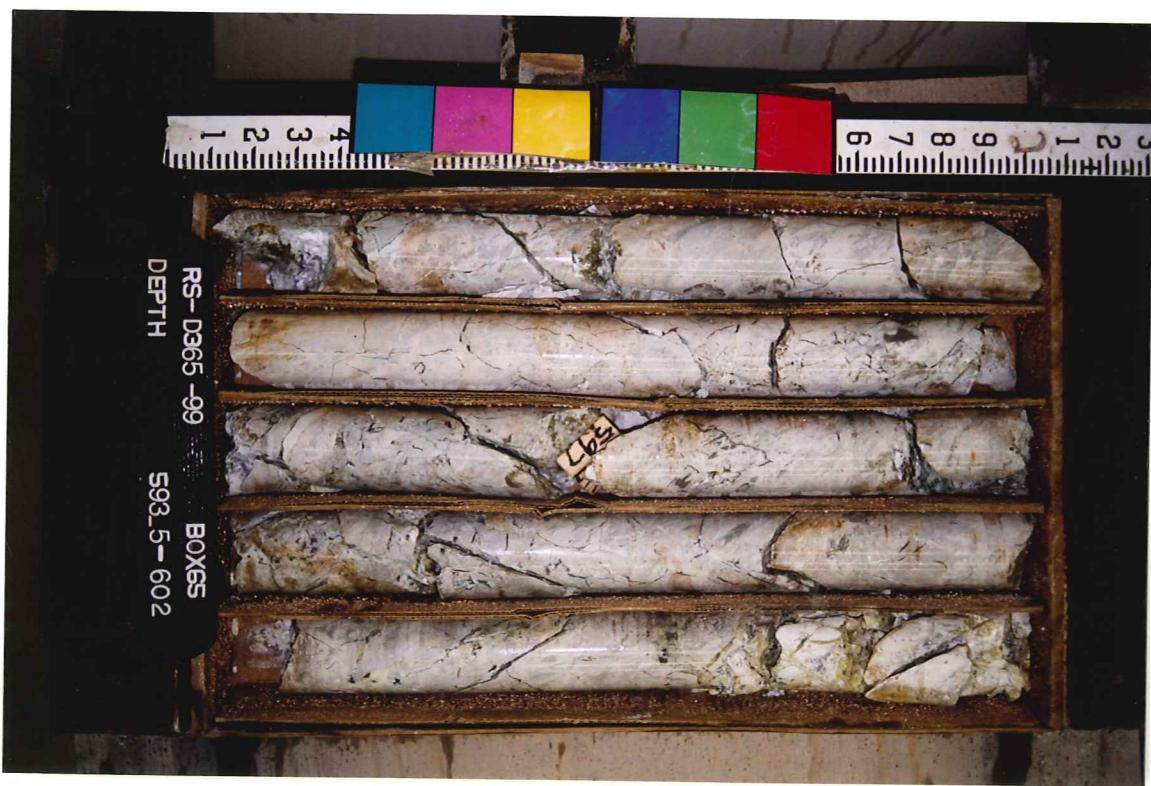
RS-D365-99 DEPTH 513.1-522.1

BOX 56

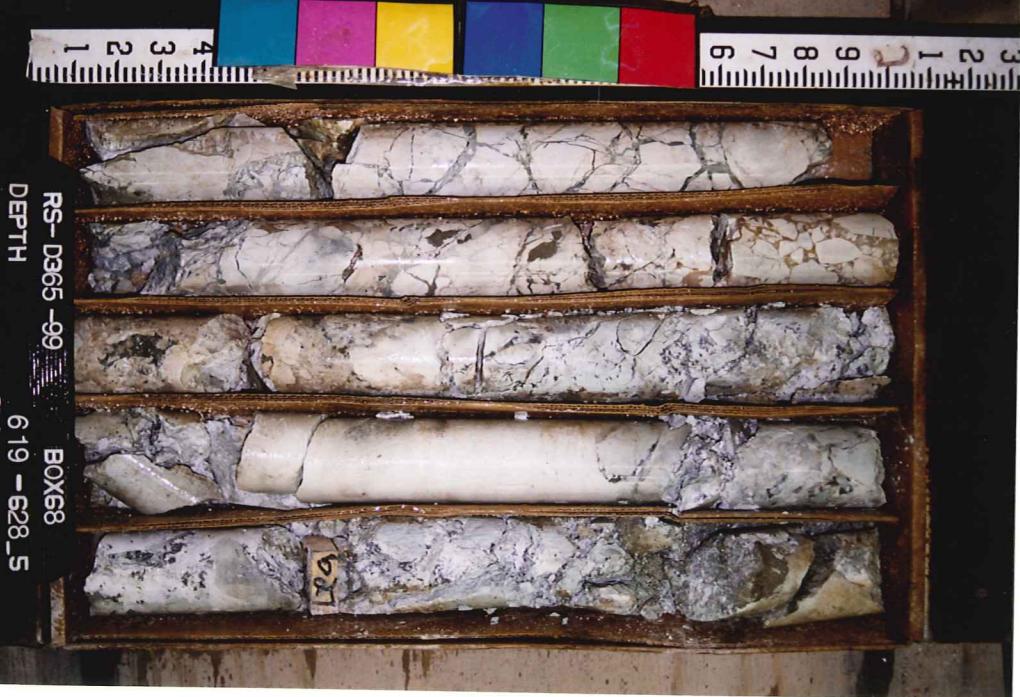








3 2 1  
9 8 7 6







RS-D365-99  
DEPTH  
676 - 686-5







3  
2  
1  
9  
8  
7  
6



RS-D365-99      BOX82  
DEPTH            748 - 757-1

3  
2  
1  
9  
8  
7  
6

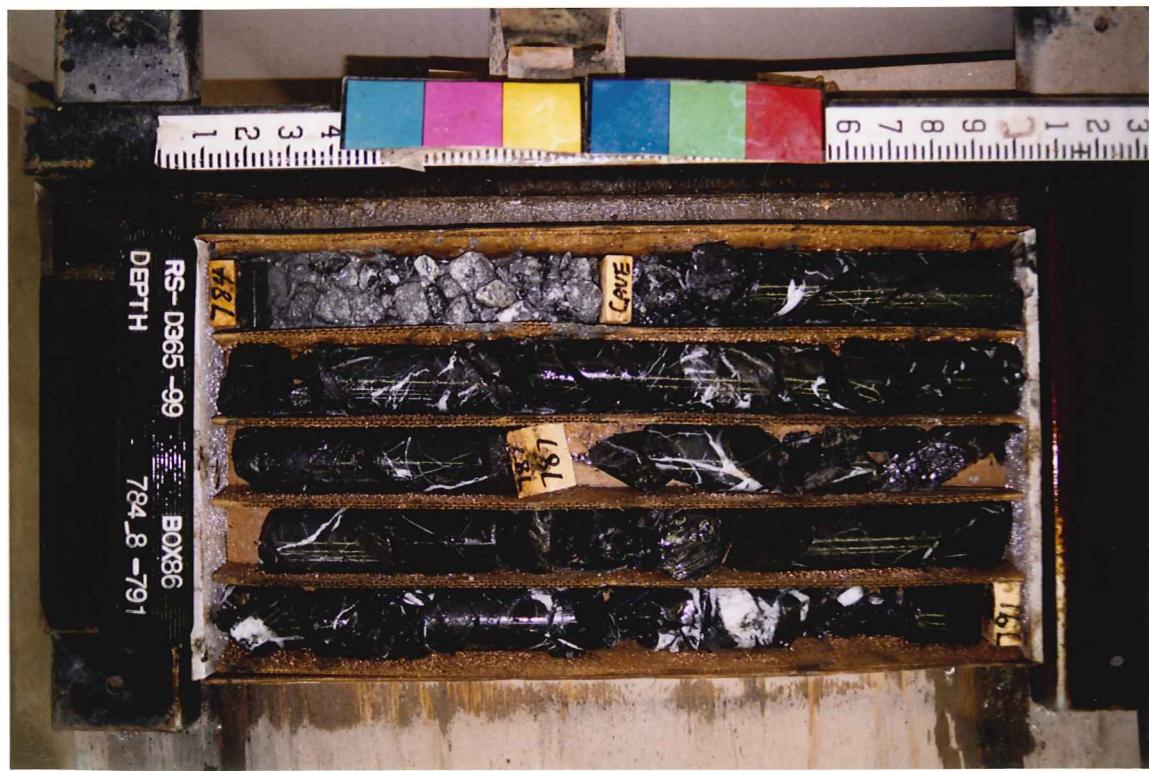
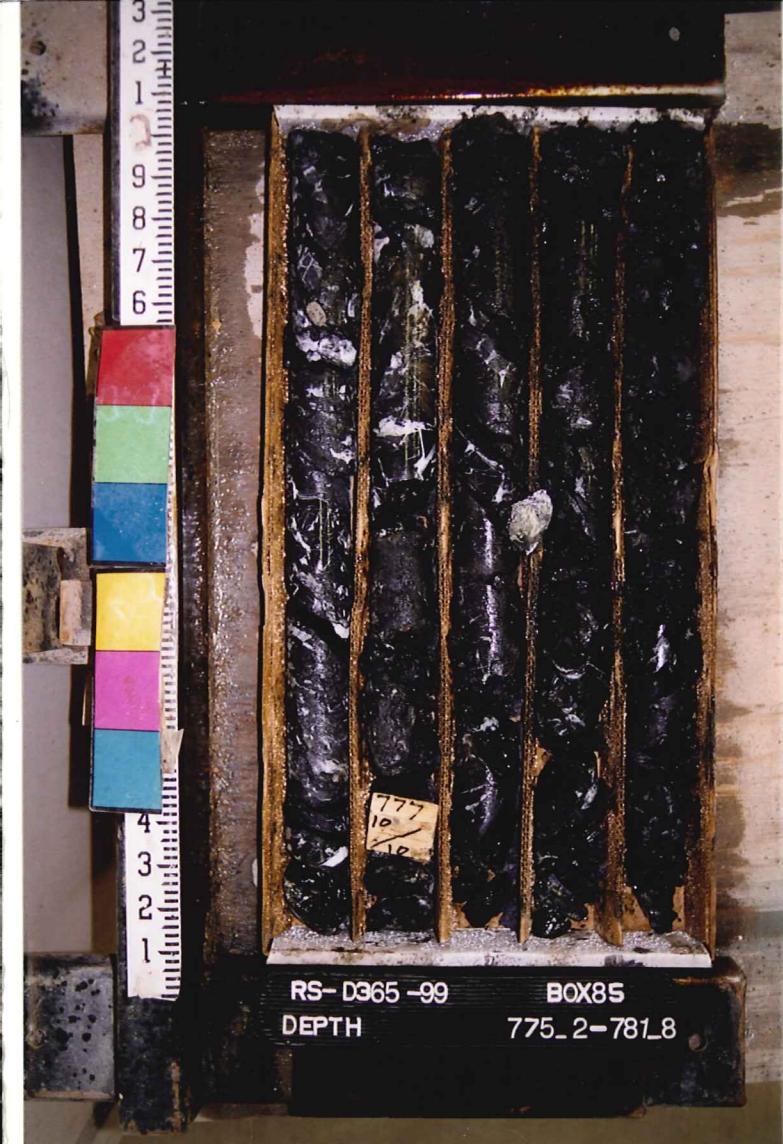


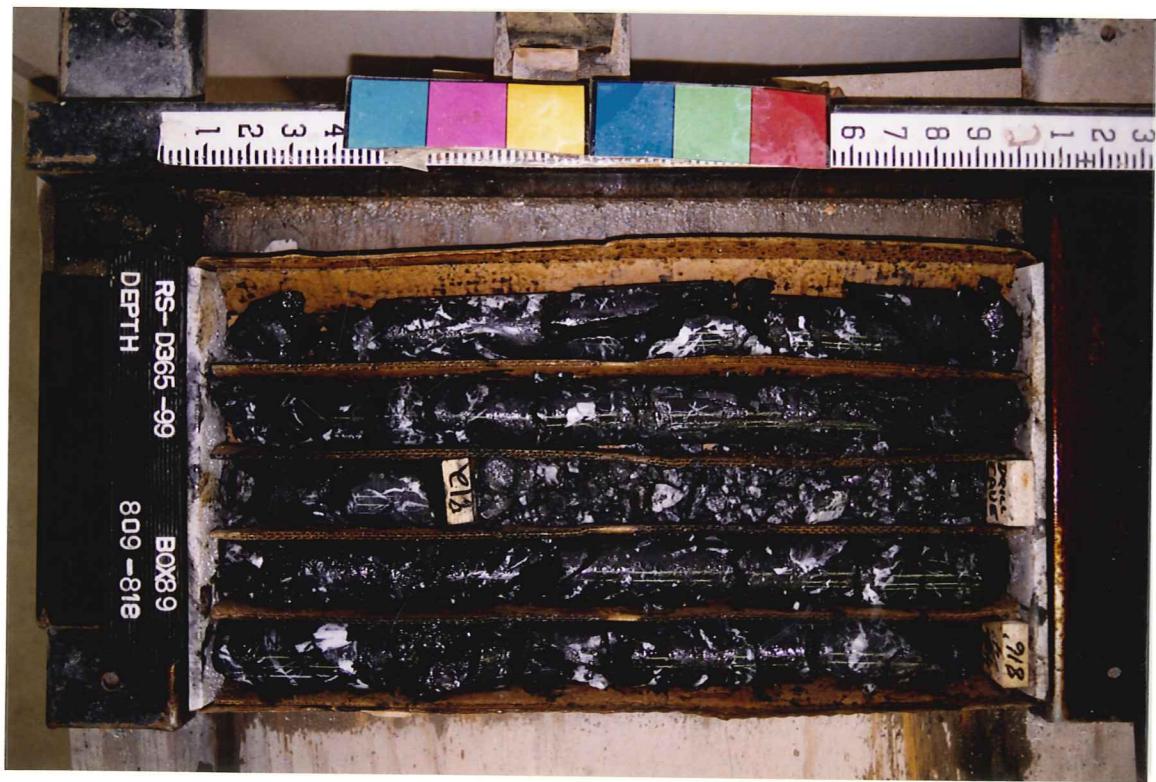
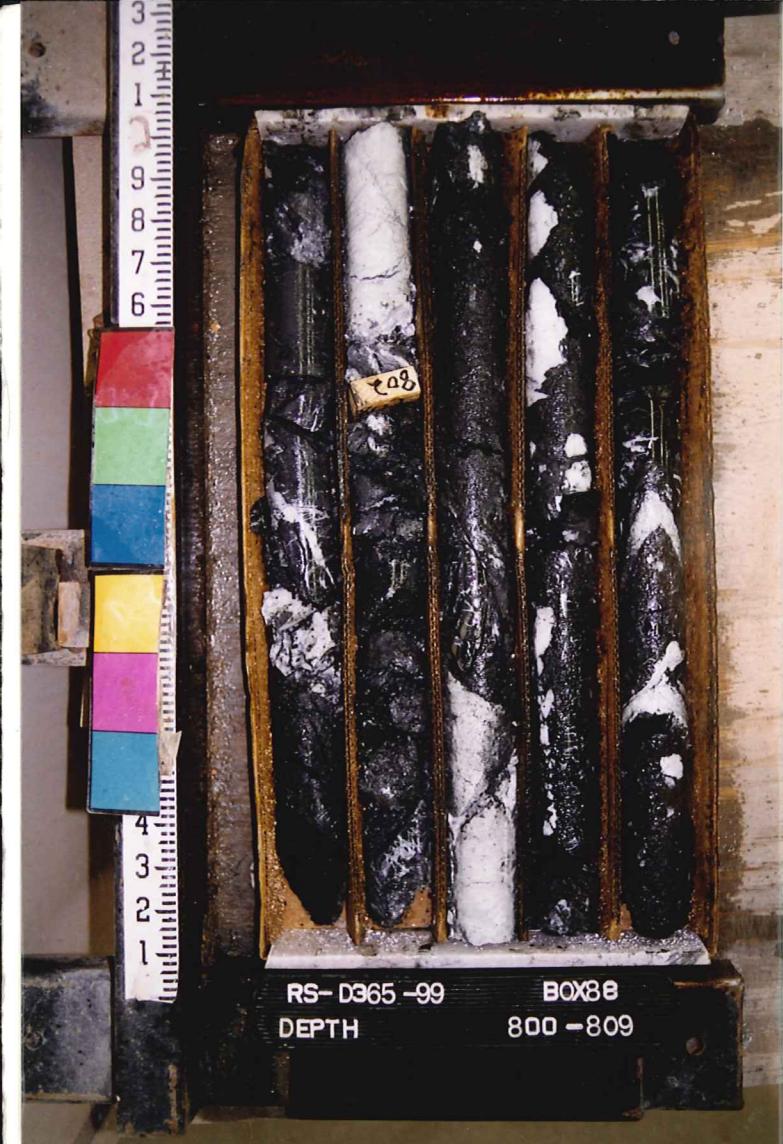
RS-D365-99      BOX81  
DEPTH            739-3-748

1  
2  
3  
4  
5  
6  
7  
8  
9  
1  
2  
3

RS-D365-99      BOX83  
DEPTH            757-1-766







2  
1  
3  
9  
8  
7  
6



RS-D365-99      BOX 92/91  
DEPTH            825 - 833.5

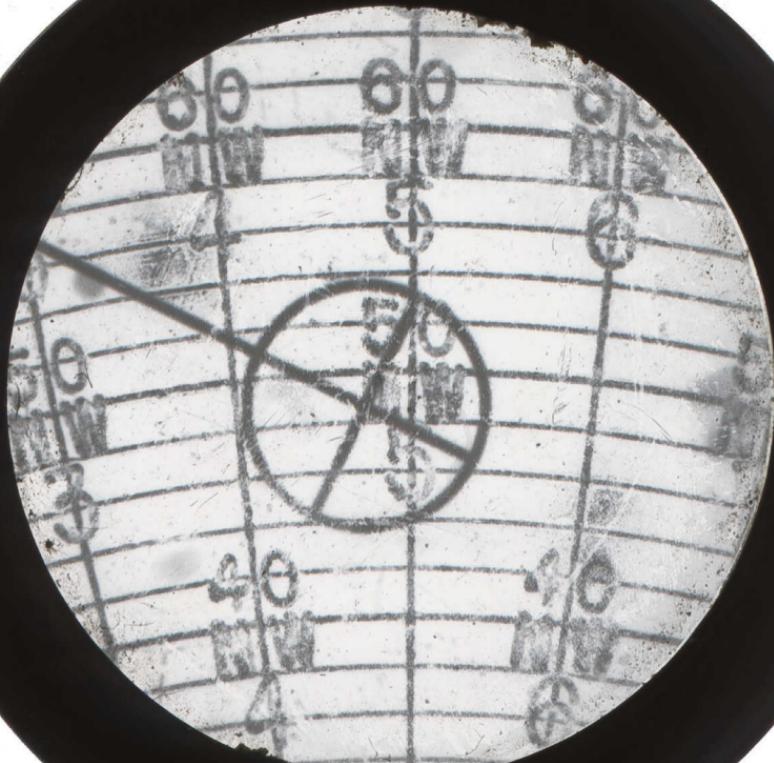
3  
2  
1  
9  
8  
7  
6



RS-D365-99      BOX 90  
DEPTH            810 - 825

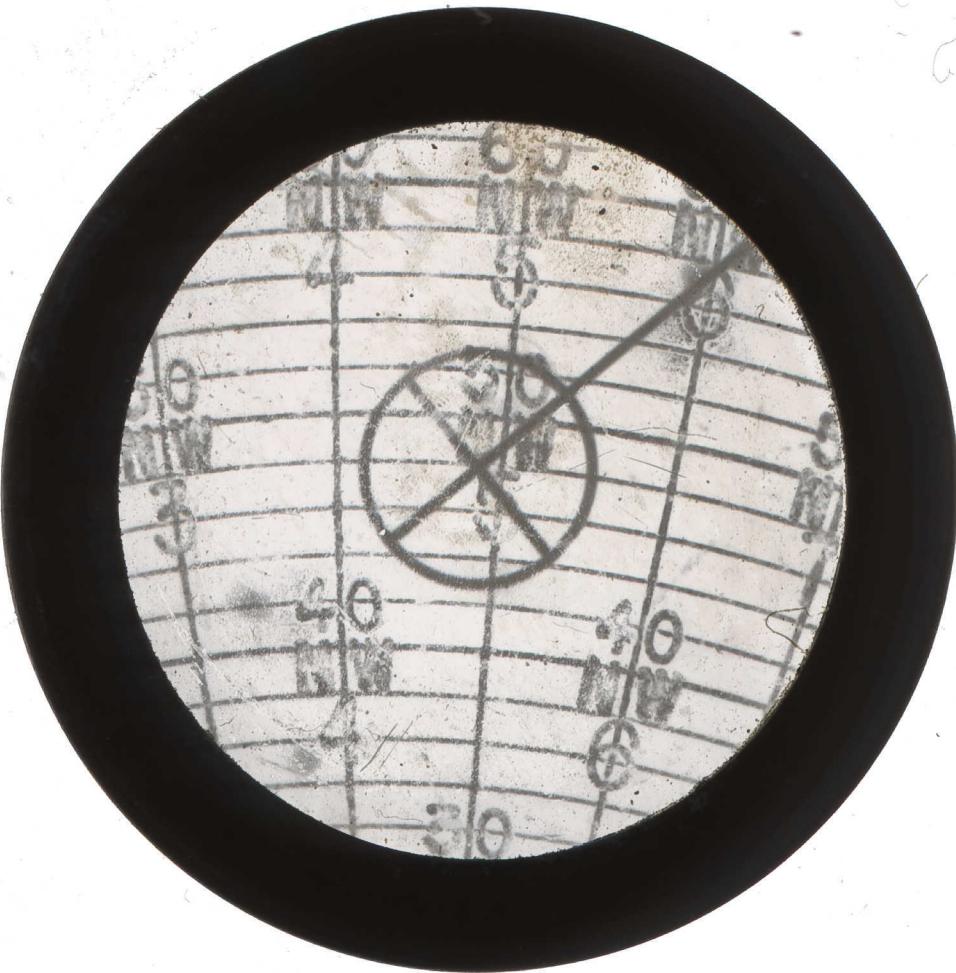
WELL RS-A365  
DEPTH 52'  
PICTURE NO. \_\_\_\_\_  
INCLINATION -42° 41.5  
OBS. DIR. N47W  
COR. DIR. \_\_\_\_\_  
TOOL FACE \_\_\_\_\_  
RUN BY G. GAADIE  
DATE 10-7-99  
CHECKED BY \_\_\_\_\_

**sperry-sun**  
DRILLING SERVICES



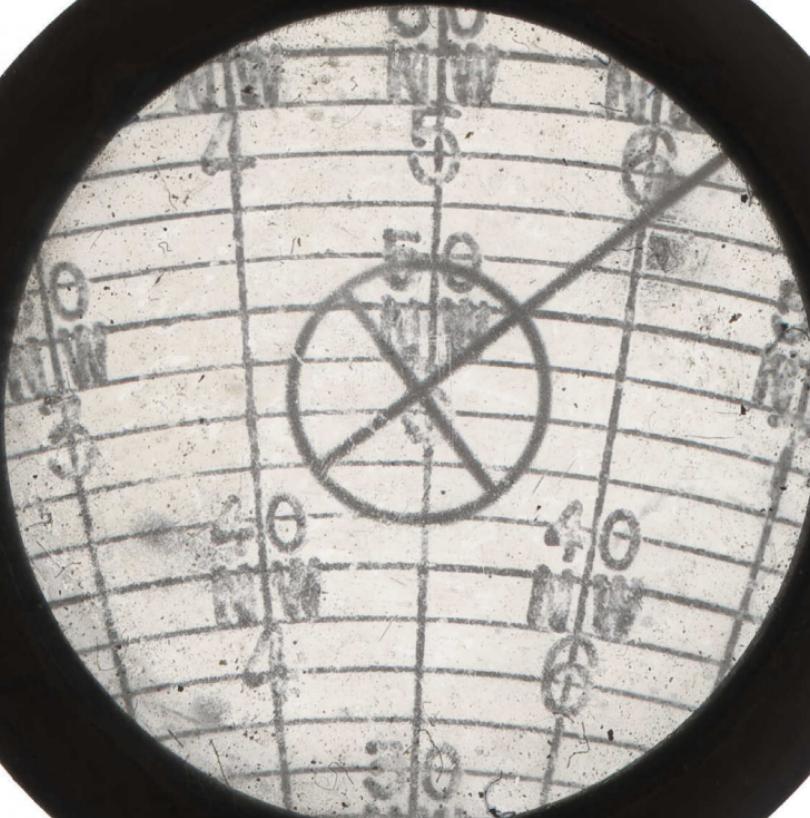
WELL RS-D365-99  
DEPTH 252  
PICTURE NO.  
INCLINATION -42°  
OBS. DIR.  
COR. DIR.  
TOOL FACE  
RUN BY Joe  
DATE 10.08.99  
CHECKED BY \_\_\_\_\_

**SPERRY-SUN**  
DRILLING SERVICES



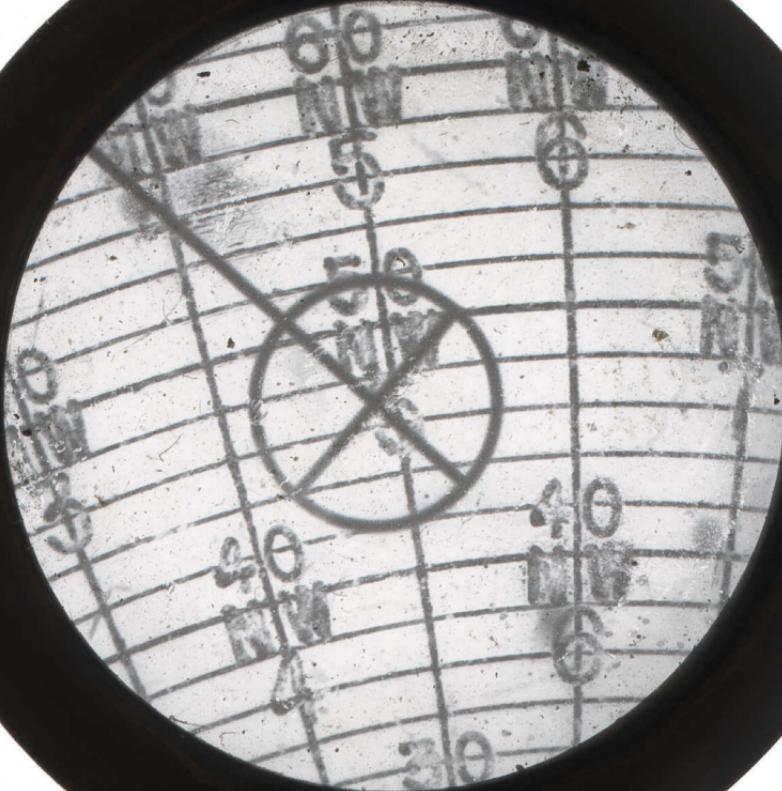
WELL BS-0365-99  
DEPTH 457'  
PICTURE NO. \_\_\_\_\_  
INCLINATION -42°  
OBS. DIR. \_\_\_\_\_  
COR. DIR. \_\_\_\_\_  
TOOL FACE \_\_\_\_\_  
RUN BY Joel  
DATE 10-09-99  
CHECKED BY \_\_\_\_\_

**SPERRY-SUN**  
**DRILLING SERVICES**



WELL RS-D 365  
DEPTH 652'  
PICTURE NO. \_\_\_\_\_  
INCLINATION ~42°  
OBS. DIR. \_\_\_\_\_  
COR. DIR. \_\_\_\_\_  
TOOL FACE \_\_\_\_\_  
RUN BY G. GADDIE  
DATE 10-10-99  
CHECKED BY \_\_\_\_\_

**SPERRY-SUN**  
**DRILLING SERVICES**



WELL RS-0365  
DEPTH 802'  
PICTURE NO.  
INCLINATION ~ 42°  
OBS. DIR.  
COR. DIR.  
TOOL FACE  
RUN BY G. GADDIE  
DATE 10-16-99  
CHECKED BY

**sperry-sun**  
**DRILLING SERVICES**

