60000529

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-422.1
AUTHOR	R. Vance; C. Ballew; S. King; M. Jex, V. Reid.
DATE OF DOC(S)	1998
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Newmont Gold Co. Newmont Exploration Ltd
COMMODITY If not obvious	gold; silver
NOTES	drill logs; assay; geology; photographs; geochemistry; total depth 2380'; invoices 71 p.

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 3/18/08
Initials Date
DB:
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

RS-422.1

C000 0529
4010

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6000529

Hole # 422 From 1130 To 1200

Area Lucky Boy Logged By R. Vance

NEL CORE

Page 1 of 5

Date 3/12/98

DEPTH	% REC	ASSAY Fire oz/st	ASSAY CN oz/st	LITHOLOGY ROCK TYPE	LITHOLOGY GRAPHIC	STRUCTURE GRAPHIC	STRUCTURE FAULT	STRUCTURE BRECCIA	STRUCTURE Vn	STRUCTURE GOUGE	ALTERATION Sil	ALTERATION Clay	ALTERATION ~~Chl~~	ALTERATION Prop	MINERALOGY METALLURGY FeOx	MINERALOGY CO3	MINERALOGY CARB	MINERALOGY Sulf	MINERALOGY MUD COLOR	RQD	COMMENTS
1100		Au	Ag																		RC Precollar
1110																					
1120																					Silicified bxa 1132–1138, w/ buckshot py and DBC in matrix. Open vugs w/ secondary encrustations of silica and ?.
1130	1130? 9.7/10 t.s. 97			Trp	void void	25 s.j. w/ clay; 25 pyritic bxa young jt.		3			2; 3	1		Tr.				3 py	Tan to brown w/ black bsp	6.9 69	Felsic porphyry (similar to BMB), possibly rhy. porph. Yellow feldspars. Rock seems fairly siliceous, but is also altered. Open-space bxa w/ orange pseudomorphs after quartz xtls. Py. is vfg. Local buckshot texture and soaking away from jts.
1140	5.8/6 97				PFF	20 sj w/ clay - py; 30 py					2					0				3.4 57	Feldspars up to 4 mm long, incr. in size to 1 cm. Black euhedral hbl? in matrix. Py selectively replaces lithic clasts. Porph is flow or intrusive. Freshest 1139-41, 1146-50'. Whole rock?
1146	8.7					40° jt w/ pyrat.														5.7	1147.5': 40° open jt w/ py-pyrarg ± mc unknown void-coating - not calc, or gyps.
1150	97				25 PFF	25 py vlt w/ clay												2		63	Feldspars preferentially replaced w/ clay + py. Green mafics → chl.
1155	7.8/8 98				45	35 clay - py s.j.														5.0 62	1155': 1-2 cm wide bxa'ted vein of silica - clay - py.
1160					PFF 40	25 py vlt; 20 py-clay jt					1							3			1161': clay filled fracture 5° to C.A.
1163	8.3 82				broken	20 yellow clay on jt; 40													tan w/ yellow DBC	0 0	
1167	5.8					30 jt; 25 py-clay jt		3			2	2								3.4 62	clast-supported 1167-70': Bxa w/ clay matrix. Sooty vfg py vlts and stringers.
t.s. 1170	105					40 s.j. w/ minor clay															1171.5': black silica-sulfide clast. vfg euhedral dodecahedrons of py, asp?
1172.5	4.9 98					15 ext. jt; 35 s.j.						1								2.5 50	1172-80': Trp is coarse grained, up to 1 cm phenos. (sanidine?)
1177.5	7.7																		Yellow Limonite	5.2	
1180	96			? check contact		20 py-mc DBC ext. jt; 35 DBC									2			1		65	Major sulfide-DBC veinlet 1181.3' and 1183.0'. Sulfide increases.
1185.5	4.6 102					20 py-mc clay; 10 Q-sulf vein												3	Gray	2.5 56	1185.7-1188': Q-py-mc-pyrargyrite w/ tan encrustation? Complex Q.V.-clay stkwk
1190	9.9/10 99			TcLt	35 PFF	30 py s.j.; 35 py-DBC mc jt; 25; 30 20 same(2) same; 35 s.j. w/ licks 20 TCP; 55 ext. jt						2							Grey, yellowish-grey	6.2 62	This rock is a crystal lithic lapilli tuff, not a flow. (TcLt). Outside chance they are alt. feldspar xtls.
1200																					yellow DBC on joints

Form 1

Hole # 422 From 1200 To 1300

Area Lucky Boy Logged By R. Vance

NEL CORE

Page 2 of 5

Date 3/16/98

DEPTH	% REC	Au ASSAY Fire oz/st	Ag CN oz/st	LITHOLOGY ROCK TYPE	LITHOLOGY GRAPHIC	STRUCTURE GRAPHIC	FAULT	BRECCIA	Vn	GOUGE	ALTERATION Ser	Clay	~~Chl~~	Prop Chl/Epi	MINERALOGY METALLURGY FeOx	CO_3	CARB	Sulf	MUD COLOR	RQD	COMMENTS
1200	6.3 95			TcLt	55 PFF; 45 PFF=50	0 dbc-py; Q-sooty black py; 1.5-2 cm wide Q-py mc-PBC-ba			25 Q; 15 Q-py; 20 Q		2	2				0		3	Gray	2.5 / 38	yellow or white clay on joints. One major clay ± py jt from 1200-1205'.
1206.6	5.4 100											1							brownish dk gray	4.7 / 87	py-mc-Qtz veinlet @ 1213.5' has open void space, bar. Good py flooding @ 1209'.
1210																			Light-gray gray. Sulfides →		py replacing Lithic fragments, pumice, and feldspars. Two types of py: yellow brassy cubic py in matrix (buckshot py.) and darker sooty py on joints and in vlts. Former is older, cut by clay seams.
1212	7.8																			4.7	
1214.1 →	98				60; 60 PFF=50						1									59	
1220	10.0				50 PFF	25 dbc py on s.j.												2	Light-gray whitish-gray	8.1 / 81	1214-1220': rock is fresher, but still altered and pyritic. 1221-25': complete py replacement of clasts. Rock becomes coarser-grained in matrix--almost sandy. Appears to be incr. ash content(?)
	100					25 py. s.j.					2										
1230	10.2				30; 45 PFF															8.9	dissem. sulfide, + replaced clots.
	102					1 cm Q-clay py-mc; clay ct; 35			20 Q		3							3		89	Siliceous rock around Q-py-mc vein. Hard to tell rock silica vs. introduced. 1238.5': thin section
t.s.																					
1240	9.8 98				55 PFF	py-clay 10 clay-py; 10 clay on jt.			10		2							2		7.6 / 76	1243'; single β-Qtz pheno. And 1247'
																					Major py-Q-clay vein @ 1248'. 1 cm wide Clay on salvage. py crushed + frax. in vein. Runs for 3.3' along C.A.
1250	10.1 101				55 PFF	15 2 clay-py jts; 20 conj. jts w/clay; 20 py vlt.													lt. brownish-gray	7.7 / 77	Abundant white pumice 1250-1290'. 1253.8: thin section
t.s.																					Pumice fragments, Lithics and feldsp. all show selective replacement by Pyrite.
1260	10.2 102					45 py vlt; 35 py vlt; 30 py clay jt.; 15 py-clay jt.					1									8.9 / 87	2 joints @ 1259.5 are ⊥ (90°) to one another; they look like conj.? joints
																					1268': clay for Pima
1270	10.0 100				PFF	65 py; 10 py-clay; 30 ext. jt.?												py + mc 2		8.1 / 81	Lithic frags are pyritized.
1280	8.5 98				40 PFF?	10 major clay-py jt; 20 clay py; clay py										3			Med to dk gray	4.8 / 55	1280.5': clay sample for PIMA 1287.9-1292.2': good stfn w/ local dk silica. vfg cubic py, rare octah. Silver gray sulfide may be asp?. Silica decreases. Minor open white clay. 1284': bladed Euhedral calcite on jt.
1287.9						20 sheared w/slicks													Light gray		FAULT: 1287.9' Major contact between TcLt and Tbud. Green "Bud"-like volc. bxa in footwall. Can't tell orientation of slicks.
1288.7	3.5 100	← 1289.2		Tbud		FAULT 30 black silica sulf vein; 20 py s.j.; py-asp? 15 s.j.	3			black 30 silica py	2	2		3					Medium green	1.0 / 29	
1292.2	7.4 95			epiclastic? →	50 BMB	15 py s.j.	2			2	1	2		2		3		2 py > mc		4.4 / 56	matrix-supported breccia; clasts are 2-3 cm. One 5 cm long x 2 cm wide clast of gray aphanitic matrix and faint phenocrysts shows 2 mm reaction rim and 0.75 cm py zoned around clast. BAKed clast? Many other clasts show the same.
1300		1300		TcLt?			2			2				1		2					

Newmont Gold Core Form

Hole# RS-422 **Az/Incl** -90 **Page** 3 of 5

Logged by R. VAnce **Area** Lucky Boy **Total Depth**

Date 3/20/98 **Coords** **Contractor**

Footer	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
1300	9.8	5.4	TCLt?	tuff	Lt. grn				20 py-mc s.j.	2				Glauconitic volc. bxa, matrix-supported. Clasts of dense porphyritic rock w/aphyric matrix. Possibly epiclastic horizons at 1298', 1302-1304'. Rock becomes more sheared and altered at 1306-1310'.	1	2	2					2	1	1	1	2	1
	98	54																									
			Tbud	tuff	Lt. to med. green						3			glauconitic tuff 1306-1313, overprinted by faulting. Locally sltd.	2	1	2			2	0	2	2	2	0	1
1310	9.8	7.8							55 FLT	3	2		3	Major Fault: 1313' Tbud in H.W; argillized white to pinkish tuff in F.W. (Adul?)	2	2	3			1	1		1		1	
	98	78	TCLt	tuff	Light gray pinkish gray									Probably xtl-lithic lapilli tuff. Fg, gritty feel. Looks fairly uniform in altered state. 1316': tiny euh proustite?								1-2	1	1			
1320 t.s.	10.2	9.7							35 s.j. sticks @ 35° TCA	1				1319': tiny euhedral pyrargyrite/proustite possible asp. Pink veinlets of adul? minor flt @ 1320'. 1321.5: adularia? Thin section: 1320'.	1	3	1				0		(1)		+ other vfg sulf.		
	102	97	Tvb	volc bxa					20 stringer frx brown					unknown volcanic bxa. Looks like it is autobx'd, but is tuff, not Tr flow. 1325-30': green clay veins and blebs, looks like chlorite, but isn't.													
					Pinkish gray to pinkish green				45 s.j. sticks @ 40° TCA					Greenish clay in matrix incr. @ 1330'.													
1330	9.2	7.7							5.j. 45					1340-45: greenish "Bud" color, but looks like a tectonic breccia.	1	3	1				2		1	1	1		
	92	77							50 s.j.																		
1340	10.1	3.9			Lt. green					2	1		2	Rock becomes sheared, bx'd and gougy 1340-1440'. Splotchy, sooty black mineral may be MnOx or sooty sulf?	0 wk?	3	3										
	101	39									3		1	Breccia and microbreccia from 1338-1440'. All FeOx is hematite, except for minor Limonite at 1355-61'. Looks like tectonic overprinting Tvb. Light green clay veins + joint-fillings are widespread from 1340-1384.							1 hm						
					Pinkish brown				50 sheared PFF?																		
1350	9.4	3.4							35 s.j.																		
	94	34							35 s.j.					Conj. s.jts w/ sulf. cut duck-butter clay (dbc) that is ~ 0° TCA.									1	2	0 ?	
					Gray to white																						
1360	9.5	5.6			Maroon to pinkish-green									Red hematitic matrix-supported volcanic bxa overprinted by tectonic shearing. Green clay veinlets continue. Clasts are white, argillized. Although hematitic, sulfide is present throughout. Py dominant. Other vfg sooty sulfides. Most py is vfg, cubic; some buckshot.							3 hm						
	95	56							35				1									2					
1370	9.5	7.8							35 sheared PFF (?)																		
	95	78							15 s.j. w/ clay; 5 s.j. w/ clay					Several 1-2 mm cal veinlets // to Core Axis.								3					
1380	9.3	3.7							5-10° s.j. w/ clay sticks are dip-slip					hm bxa begins to give way to green and gray rock @ 1380-1390'.		2	2				1 hm						
	93	37			Lt. greenish gray									Gradational contact with Green, glauconitic Bud-like pyroclastic rock. Strongly sheared and clay-altered.													
1390	10.2	7.5									microbxa 3			mineralized clast @ 1394': similar to BMB dike. Clasts are ½-2 cm. Aver. Sulfide reaction rims? Also matrix-supp.	1	1	2					1	2				
	102	75	Tbud	bxa										Clay becomes white instead of green. veins, locally.			3					3					
1400			?	bxa						3			2														

RECORPRT.DWG Revised 3/17/98

Newmont Gold Core Form

Hole# RS-422 **Logged by** R. Vance **Date** 4/6/98

Area Lucky Boy **Coords**

Az/Incl -90 **Total Depth** **Contractor** Longyear

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
1400	3.8		?	bxa	medium to Lt. gray, brownish gray, w/ white clay vnlet.								3	Major Fault: 1398-1435'. Long interval of microbxa (all tectonic).													
	78	10								3			2	Clay is white to tan, in matrix and as 1-5mm wide vnlts. Discontinuous, short vnlts and ext. jt fillings. Sulfide is py as blebs, vnlts, dissem. in gouge and bxa matrix.													
1410	5.8	0.8				Low recov.							3														
	58					Low recov.					microbxa 3					1	3						3	3	1		
1420	5.9	.4				Low recov.		PFF?	50 s.j. w/ minor wh. clay slicks 5 TCA; 30					1420.5': 3" of layered felsic rock. Could be a clast in flt. bxa.													
	5.7	0							ext. jt w/ clay				2	Clay incr. 1426-1434'.								2					
1430	7.4										2				1												
									60 s.j.				3														
				porph rhy. tuff?	med to dk gray, brownish-gray			Q.V.	20	2		3		1.5cm wide Q-cal-clay vein. Calcite is 0.75 cm, clay is narrow. Q. is brown, cherty.													
1440	10.0	7.3							75 s.j. 15 10		1	3		1cm brown cherty Q.V. cutting argillic + pyritic gray gougy tuff. Narrow (4mm) sulfide vnlet.	2		1					3	2	3			
	100								15 20					1438-1485': wavy white rhyolite, brown bx'd rhyolite, green to maroon porph. rhyolite. Distinctive color and texture @ 1455-1459.	2	1	1					2	2	2	2		
1450	9.8	8.8			Brownish-white and Brownish tan						2			1443-1450: 0.5-1cm wide Q-clay-calcite vnlts, w/mc in Qtz. DK gray sulfides. Show offset across vnlts (reverse?). Clay seams show dip slip. Vnlts cut bx'd rock; bxa origin unknown													
	98	88							10 sulf-adul. vnlt						0	1	2						1	1	1		
1460	9.8	6.2			Lt. brown to grey									Bx'n decreases													
	98	62							35 hm on frx.					1464-70: relatively unaltered comp. to above. Qtz phenos.		1							1				
1470	6.7	2.7			Greenish brown to Grnish gray				40 s.j.																		
					med to dk gray, brownish gray, greenish gray				40 70 jt w/sulfide 20							0							2				
	4.3	1.0							40 18																		
1480	7.0	1.4							50 Q-adul? 50 FLT 45 FLT	3				1479: 1/2 cm Q-cal-adul? veinlet w/ bladed mc, 40 TCA; hairline sulf. vnlet 18 TCA. 1482: brown adul?-Q vnlt 50 TCA													
			?	volc bxa	Pale pinkish green, pink matrix									Green to pale pinkish-green, coarse volcanic bxa. Matrix-supp. Clasts vary from mm to +5cm, aver. 1-4 cm. See comments. Clast are light green to med green, porphyr. w/ "birdseye" texture. Some are tan to pink w/ diss. sulfides. lesser common are gray clasts.	2	2						2	1				
1488.3	1.8	1.6																									
1490	9.9	5.3							50 Cal vnlt																		
	99								70 green chlor s.j.					epiclastic textures @ 1498'													
1500																											

Newmont Gold Core Form

Hole# RS-422 H core
Logged by Vance
Date 4/8/98
Area Lucky Boy
Coords
Az/Incl
Total Depth
Contractor

Footage	% Rec	RQD	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: Attitudes	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite	Met.: FEOX	Met.: CO3	Mineralogy: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
1500		51		volc bxa	Green									volc bxa, contin.		2	2										
	95								25 FLT	2				1507: FAULT: 20-25° TCA. clay seam, contrasting rock types									1				
				porphyry tuff bxa	Pinkish-brown									Tuff unit is bx'd, argillized, and sheared. Local gouge. Brown color may be adularia. IF so, abundant 1507-1513. shearing ⊥ TCA.													
T.S? 1510		5.0			Brownish white				35 s.j. w/ clay						1	3	2										
	99				Gray to whitish gray, locally dk gray				70 vnlts 75				2	gray veinlets of silica-clay-sulfide in gougy rock									2				
1520														3cm wide calcite vein @ 1518.5' at the end of dk gray rock.													
														One contact @ 1507' seems to be @ 1511' in the NQ wedge part of the hole. Another spot at 1518.5' (calcite vein) seems to match up to 1521'													
1530																											
1540																											
1550																											
1560																											
1570																											
1580																											
1590																											
1600																											

Additional Logging Notes for **RS-422:** R. B. Vance, 5/98

1130-1140: Peculiar open-space breccia with 1 x 8 cm voids, lined with fg silica. Breccia matrix is locally sulfide-rich, dominantly vfg py, but also probable Ag sulfosalts or other species--perhaps naumannite? Orange pseudomorphs of unknown mineral after quartz crystals (not calcite). Rock shows a distinctive pyrite soaking texture away from veinlets, shears, and joints.

Yellow "duck butter" clay is weakly present from 1130-1140, but increases from 1164-1170', where it is up to 0.5 cm wide. Locally the yellow color is in contact with white clay across the same vein, so the "yellow" part may simply be limonite stain on white clay.

Rock is a felsic porphyry, similar to BMB (according to Kurt Allen).

Thin section 1132: (see Dr. Sid Williams full descriptions). Rhyodacite representing a chilled hypabyssal porphyry (supporting Kurt's BMB interpretation of a sill). Plag to sericite, sericite in matrix, some sanidine is perfectly fresh but corroded by dolomite, mafites to q-leucoxene-celadonite (K-Ca-Na aluminum silicate). Flow directions defined by alignment of phenocrysts.

Thin section 1169.3: rhyodacite porphyry. Large phenos of sanidine, small phenos of plag. Strong epizonal alteration followed by intense shearing and brecciation. Plag to sericite, mostly fresh sanidine, crush zones with kaol+ser, or clays+qtz. Sulfides cut clay + chalcedony. Large pyrite grains are though to represent mt or other minerals in mafite sites. No other sulfides.

1190: No pumice fragments, in contrast to my suggestions on the log.

Thin section 1238.5: same rhyodacite granophyre. A few round eyes of beta quartz. Plag to sericite, sanidine to siderite + qtz (or only rimmed with sericite). Vein of cherty qtz + siderite + sulfides is contemporaneous with wallrock alteration, and displays no envelope. Pyrite is the only sulfide in polished section.

Thin section 1253.8: rhyodacite porphyry. Leucocratic. Qtz developed by devitrification. Plag to sericite, some sericite to kaolinite. No pumice, no adularia.

Thin section 1321: intermediate vitrophyre originally. Matrix glass devitrified to small equant quartz grains embedded in paste-like illite. Leucoxene is only minor in the matrix, suggesting minor mafites. The wispy brown veinlets questioned are cherty quartz microveinlets with colloidal hematite/goethite along sinuous slip planes.

1438-1485: Wavy white porph. rhyolite may equal George's "lithic-crystal, lapilli-ash tuff"

1485: Fault contact with gray tuff (HW) vs. green volcanic breccia (FW). Clasts in bxa are lt. green to tan, porphyritic, but phenocrysts are anhedral, blotchy, and faded--possibly feldspar altered to green clay? Volcanic breccia clasts are argillized for 1.2 ft in FW, then are not argillized. Clasts are rimmed w/ sulfide (py?).

Newmont Gold Core Form

Hole# RS-422 **Logged by** G. Langstaff **Date** 5/18/98

Area Lucky Boy **Coords**

Az/Incl **Total Depth** 2380' **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite		FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay	
2000																													
2010																													
2020																													
2030																													
2040																													
2050																													
2060																													
2070																													
2080														box says 2082 but probably actually starts at 2082.5 core above lost to fire															
2090	20 / 3.9 / 113%	67 / 3.1 / 103%	Chocolate?	vitric ash tuff or flow	greenish grey	2089.0			<10 jt u/calc clay?, 20° slicks; 10 jt u/calc, clay?, 5° slicks; jt u/calc	0	0	0	0	Lith: 2082-2135.8 massive, apparently aphyric rock with sparse irregular black squiggles <1mm (fiamme?); irregular fine mottling could be devitr. texture but if black squiggles are shards rock isn't welded; could be vitric ash tuff or flow	0	0		0	0	1		0	2		0				
	20 / 9.9	90 / 9.3				2092.0																							
	99%	93%				2096.7			70 jt u/calc					Alt: 2082-2101.8 various shades of green suggest weak green clay alteration; minor calcite veins, locally with hematite													
2100	21	00																											

Newmont Gold Core Form

Hole# RS-422 **Logged by** G. Langstaff **Date** 5/18/98

Area Lucky Boy **Coords**

Az/Incl **Total Depth** 2380' **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
2100	9.9	9.3	Chocolate?	vitric ash tuff or flow	gm-grey	21	01.9			0	0	0	0	2101.8 — 2000.5	0	0		0	0	1	0	3		0			
	99%	93%			dark grey	21	06.9							Alt: 2101.8 - 2124.8 negligible alteration or dark color masks what alteration there is; probably some clay from devitrification (?); calcite common and may replace black squiggles locally (or just replace rock?); rare calcite veins ± hematite						0								
2110	21 10																										
	10.2	9.9				21	11.9		15 calc; 50 calc + hem																		
thinsection	102%	99%																									
						21	16.8																				
2120	21 20																										
	9.9	8.8				21	22.0		80 jt?																		
	99%	88%							calc					2124.8						tr							
					medium grey with minor green mottling	21	27.0																				
2130	21 30																										
	9.9	9.1				21	31.7																				
	99%	91%							jt/calc + hem 68; 25° slickens					2135.8													
						21	37.1							2137.3													
2140	21 40													Lith: 2135.8 - 2312.5 massive, apparently aphyric rock with more common irregular black squiggles up to 2 mm; in gradual transition from rock above; less mottling and denser appearance at 2137.3-2142 may be because of less devitrification; may be some crystals but can't distinguish all white specks from qtz or calcite after black squiggles or all black squiggles from mafic crystals. Pete R. says this looks like andesite sills at Midas and found possible mafic phenocrysts						0		2							
thinsections whole rock	10.0	10.0				21	42.0																				
	100%	100%			brownish-grey																						
						21	46.4		65 calc breccia vein																		
2150	21 50																					3					
	10.2	9.9				21	50.9																				
	102%	99%				21	54.9							2154.4						tr							
					medium to dark greenish-grey to brownish-grey									Alt: 2137.3-2154.4 negligible alteration; minor fine mottling may be just devitrification; lacks green tints and bleaching; white irregular and cuspate squiggles may have replaced black squiggles or could have different origin - either quartz or calcite or calcite cores with quartz rims; very rare calcite veins														
2160	21 60					21	59.4		25 jt/calc, hem; 45; 80 jt													hi 2					
	10.0	9.7																									
	100%	97%				21	64.9		30 calc vn; 45 calc vn																		
2170	21 70													Alt: 2154.4 - 2173 local hints of green mottling suggest possible traces green clay alteration; 2173.0 white cusps of calcite or quartz or both may have replaced black squiggles as some have black selvages (clay?); rare calcite veins ± hem														
	9.9	9.5				21	70.5		≤10 qtz? + calc + hem vn													2		tr			
	99%	95%				21	75.6		≤10 calc, qtz?, + py + hem vn											1							
					greyish green				qtz rim, calc core																		
2180	21 80					21	80.0		35 qtz + calc vn																		
	9.8	9.5																									
	98%	95%				21	84.9		70-80 fracts w/ grn clay; 20 jt w/ calc; 35 grn clay w/ jt w/ grn clay? calc; 20 jt w/ calc grn clay					"grn clay" on joints is blue-green													
														2185													
					pale greenish-grey									Alt: 2173-2185 various shades of green and paler color than above suggest weak green clay alteration; black squiggles mostly dark clay but some have calcite; more black squiggles along green fracture; some fractures have blue-green color; thicker calcite veins some with hem + py + qtz, some with quartz														
2190	21 90					21	90.0																				
	10.0	9.7																									
						21	94.9		25 jts; 25 white clay + qtz + calc + mafic + py vns													lo 2					
	100%	97%																									
						21	97.3		≤10 qtz + clay + mafic + py veins													0					
2200	22 00																										

Newmont Gold Core Form

Hole# RS-422 **Logged by** G. Langstaff **Date** 5/18/98

Area Lucky Boy **Coords**

Az/Incl **Total Depth** 2380' **Contractor**

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	FeOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
2200	9.9	8.9	Chocolate?	Hbl-phyric(?) flow or ash tuff	pale greyish-green	2201.2			20 qtz+calc+marc+py+clay?	0	0	0	0	Alt: 2185-2249 still weak green clay but rock not as green as above and may be paler; thin breccias (<1") with rounded clasts and qtz ± calcite matrix; significant veins of quartz+py+marc ±calcite ± white clay(?); black squiggles still dark clay but also very rare chalcedony filling or even rarer calcite filling; rare patches of fine pyrite; earlier 2213= calc+qtz+marc vn cuts grn clay+qtz+py veins of microcrystalline quartz, pyrite, green clay (cut by qtz+marc+calc veins); drusy quartz in vugs of qtz+calc+marc+py vein at 2112 qtz generally not in calc+marc veins below	0	0		0	0	1	0	0		tr				
	99%	89%				2203.0			60-70 calc vn 45 ½" bx w/py qtz, calc													2					
						2207.6			calc+qtz+pyrite+marc+clay?																		
2210	22	10				2209.2			20													1					
	9.9	9.3							5-20 calc+qtz+pyr+marc ~30% grn clay+qtz+py																		
	99%	93%				2213.2			35													2					
						2217.4			50 jt w/grn clay 15 calc vn																		
2220	22	20																						0?			
	10.1	10.1				2222.7								Lith: there are zones above 2312.5 (at least up to 2200') with visible, euhedral hornblende and possibly rare biotite phenocrysts, generally ~1 mm or less, apparently replaced by green to dark green clay or chlorite; in same rock as black squiggles; black squiggles may be entirely secondary; locally have distinct layering of all green clay(?) or with quartz or calcite interiors; rarely with minute, white hemispheres of chalcedony (?)															
	101%	101%				2226.7			calc follows <15 and cuts grn clay+py+hem+calc 20 jt w/grn clay cut by calc vn at 20°																		
2230	22	30																				1					
	9.5	8.2				2231.9			10-15 jt w/grn clay+calc+marc+py 20° slicks 20 jt															tr			
	95%	82%				2237.5			calc+marc veins jt w/calc, grn clay, py 10 0° slicks																		
2240	22	40												Alt: 2249-2324.5 weak green clay (except moderate due to more abundant clay or chl-filled squiggles at 2265-2273.8); various shades of greenish and brownish grey; calcite veins with rare marcasite or rarely with green clay on margins; green clay veins with green selvedges in wall rock; rare green clay or chl+microcrystalline qtz+py may also have green selvedges in wall rock; black squiggles may have chalcedony or calcite in addition to green clay; one cavity with chalcedony and calcite; calcite veins generally younger than green clay or chlorite veins but some may be contemporaneous															
	10.1	8.4				2242.9			50 grn clay+qtz+py vn 20 jt w/calc, grn clay+py 15° slicks																		
	101%	84%				2246.7			jt w/grn clay 50 calc+py 15° slicks 20 jt w/grn clay calc grn clay selvedges													2					
2250	22	50																									
	9.9	8.5				2251.0			65 jt w/calc 25 jt w/calc, grn clay, py 20 25° slicks																		
	99%	85%				2256.3			5 35 0 35 chalcedony 35° slicks 70 40 chl, py qtz vn 35 jt w/chl, calc 60° slicks jt along chl (?) qtz vn w/30° slicks cuts calc 60 jt																		
2260	22	60																									
	9.9	8.4				2261.5			20 calc+grn clay+py vn																		
	99%	84%				2265.2			calc+py+marc vn 25 jt w/calc, clay+marc 20° slicks					2265						2							
									jt w/calc, clay, soft marc 45																		
2270	22	70				2270.5			40 30 jt w/ calc, clay, marc 0, 30° slicks 25 jt w/calc jt w/calc, clay 0° slicks																		
	10.0	8.8																									
	100%	88%				2275.6			65 jt w/black green clay 50 jt w/calc 70° slicks					2273.8						1							
																								0?			
2280	22	80				2280.4			50 grn clay+py+qtz vn 20 calc vn																		
	10.0	9.7							40 calc vn 15 jt																		
	100%	89%				2285.2			25 calc vn																		
2290	22	90				2290.0			calc+marc vn																		
	10.1	9.4							30 35 calc vn													hi 2					
	101%	94%				2294.9			65 jt w/calc chl 5, 10° slicks															tr			
2300	23	00				2299.7			10 vn w/calc, marc <10° slicks													2					

Newmont Gold Core Form

Hole# RS-422 **Logged by** G. Langstaff **Date** 5/18/98

Area Lucky Boy **Coords** _____

Az/Incl _____ **Total Depth** 2380' **Contractor** _____

Footage	% Rec	RQD	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Attitudes	fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite		FeOx	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
2300	8.9	8.9	Chocolate?	flow or tuff?	grayish-green	2302.0				0	0	0	0	Lith: 2312.5–2373.8 gradational with rock above and probably not distinct unit; black squiggles rare or absent (some at top and bottom); has <1 to 5%, euhedral hornblende and possibly rare biotite phenocrysts generally replaced by green clay or chlorite, no foliation; aphanitic matrix is locally mottled due to	0	0		0	0	1		0	2						
	89%	89%																										
						2306.1																						
2310	23 10																											
	23 11																											
	1.5%	0%																										
	150%	0%				2313.3								2312.5 devitrification or weak alteration; absence of banding may be significant														
	8.9	7.3																										
	99%	81%				2317.4								Lith: 2373.8–2380 probably same unit as above but with minor black squiggles and possibly rarer mafic phenocrysts														
thin section whole rock &																												
2320	23 20																											
	10.1	7.6			brownish-grey	2321.7																						
	101%	76%		hornblende-phyric flow		2326.1								2324.5 Alt: 2324.5–2375.5 negligible to very weak green clay alteration with medium greenish gray to dark gray colors; generally abundant calcite and little or no disseminated sulfide; rare green clay or chlorite veins (principally at top or bottom of interval), rare green clay or chlorite + microcrystalline quartz + pyrite; rare calcite veins, all thin and rarely with pyrite or marcasite but one at 2371.6 may have base-metal sulfides; very rare cavities filled with chalcedony ± calcite (in core)						tr			1? 2				0?		
2330	23 30				medium-grey	2330.8																						
qtz-py-chl? vein	9.7	8.1																										
	97%	81%				2337.2																	3					
2340	23 40													2340.5														
	9.8	9.1																		0?								
						2344.0								2344.5														
	98%	91%																		tr					tr			
					brownish-greenish-grey									Alt: 2375.5–2380 weak green clay; rare, thin calcite veins rarely with marcasite; rare green clay or chlorite veins; rare green clay or chlorite + microcrystalline quartz + pyrite veins									2					
						2349.0																						
2350	23 50																											
	10.1	7.2																					3					
	101%	72%				2354.9								2356.7: 20° segment with dip slicks; calcite vein in fractures; 10-40°; <10°														
																							2		0?			
2360	23 60																											
	10.0	7.4																										
	100%	74%				2365.0																						
																							3		tr			
2370	23 70					2370.0								2371.6 – possibly other sulfides in calcite vein without green selvedge – cpy, gn, tet?									2					
	10.0	8.6																					1					
	100%	86%				2375.2								2375.5											0?			
					greenish-grey															1								
2380	23 80					2380.0								T.D. 2380'														
2390																												
2400																												

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

(702) 356-0606

INVOICE NO: SP 0048789-IN
INVOICE DATE: 05/26/98

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RS-422.1	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
24	SAMPLES RECEIVED	.00	.00
24	JAW CRUSHING CHARGE	1.30	31.20
24	SPLITTING CHARGE	.60	14.40
24	FINE MILLING CHARGE	2.00	48.00
24	Au (1 A.T. FIRE ASSAY)	8.00	192.00
24	HYDROCHLORIC/NITRIC DIGESTION	2.00	48.00
24	Ag ANALYSES	1.00	24.00
24	COMPOSITE CHARGE	1.00	24.00
6	MULTI-ELEMENT ICP PACKAGE	9.80	58.80
6	Se ANALYSES	7.15	42.90

NET INVOICE:	483.30
LESS DISCOUNT:	169.16
FREIGHT:	.00
INVOICE TOTAL:	314.14

COPY

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ANALYSIS REPORT SP048712

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW
: R. VANCE
:
:

CLIENT REFERENCE No: RS-422.1 RECEIVED : 30 APR 1998

No. SAMPLES : 32 REPORTED : 30 APR 1998

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 : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048712

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-422.1

REPORTED : 30 APR 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-422.1 1501-1506	<5		<0.001		<0.5	<0.02
RS-422.1 1506-1511	44		0.001		1.1	0.03
RS-422.1 1511-1516	40		0.001		3.0	0.09
RS-422.1 1516-1519	50		0.001		8.4	0.25
RS-422.1 1519.0-1522.5	156	145	0.005	0.004	24.6	0.72
RS-422.1 1522.5-1526.0	164	162	0.005	0.005	7.4	0.22
RS-422.1 1526-1531	72		0.002		1.9	0.06
RS-422.1 1531-1536	12		<0.001		0.5	<0.02
RS-422.1 1536-1541	19		<0.001		0.7	0.02
RS-422.1 1541-1546	13		<0.001		0.8	0.02
RS-422.1 1546-1551	18		<0.001		1.1	0.03
RS-422.1 1551-1556	44		0.001		1.2	0.04
RS-422.1 1556-1561	17		<0.001		1.0	0.03
RS-422.1 1561-1566	182	163	0.005	0.005	5.6	0.16
RS-422.1 1566-1571	32		<0.001		1.2	0.04
RS-422.1 1571-1576	5		<0.001		<0.5	<0.02
RS-422.1 1576-1581	<5		<0.001		<0.5	<0.02
RS-422.1 1581-1586	6		<0.001		<0.5	<0.02
RS-422.1 1586-1591	<5		<0.001		<0.5	<0.02
RS-422.1 1591-1594	<5		<0.001		<0.5	<0.02
RS-422.1 1594-1598	<5		<0.001		<0.5	<0.02
RS-422.1 1598-1603	<5		<0.001		<0.5	<0.02
RS-422.1 1603-1608	<5		<0.001		<0.5	<0.02
RS-422.1 1608-1613	<5		<0.001		<0.5	<0.02
RS-422.1 1613-1618	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048712

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-422.1

REPORTED : 30 APR 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-422.1 1618-1623	<5		<0.001		<0.5	<0.02
RS-422.1 1623-1628	<5		<0.001		<0.5	<0.02
RS-422.1 1628-1634	<5		<0.001		<0.5	<0.02
RS-422.1 1634.0-1636.2	67	60	0.002	0.002	3.0	0.09
RS-422.1 1636.2-1640.0	19		<0.001		0.6	<0.02
RS-422.1 1640-1645	<5		<0.001		<0.5	<0.02
RS-422.1 1645-1650	5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	0.2	1	2	0.01	5	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

CLIENT:	***NEWMONT GOLD COMPANY***
CLIENT REF:	**ROSEBUD EXPLORATION**
AAL REF:	**SP048712**
METHOD:	**AAL 01-2 + Se**

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RS-422.1 1501-1519	2.5	0.73	53	< 3	82	< 3	1.81	0.3	1	3	6	1.88	195	0.35	13	0.03	519	9	0.01	2	0.017	30	11	6.2	80	5	< .01	< 8	1	< 2	91
RS-422.1 1519-1536	7	0.52	179	< 3	41	< 3	1.19	0.2	1	2	6	1.47	135	0.29	16	0.02	686	6	0.01	1	0.016	19	12	9.9	70	6	< .01	< 8	1	< 2	58
RS-422.1 1536-1556	1.1	0.71	40	< 3	52	< 3	0.22	0.3	1	2	7	2	85	0.38	21	0.02	89	4	0.01	2	0.014	30	11	7.2	55	8	< .01	< 8	1	< 2	53
RS-422.1 1556-1576	2.3	0.56	115	< 3	34	< 3	0.59	< .2	1	2	7	1.55	100	0.33	17	0.02	258	4	0.01	2	0.019	26	11	9.6	68	7	< .01	< 8	1	< 2	34
RS-422.1 1576-1594	< .3	0.68	36	< 3	48	< 3	1.53	< .2	1	1	5	1.54	15	0.33	14	0.03	610	4	0.01	1	0.018	24	6	0.5	106	5	< .01	< 8	1	< 2	40
RS-422.1 1594-1613	< .3	0.69	5	< 3	62	< 3	1.9	0.2	1	2	5	1.49	15	0.35	14	0.03	515	4	0.01	1	0.018	24	5	< .1	125	5	0.01	< 8	2	< 2	29
RS-422.1 1613-1634	< .3	0.71	25	< 3	57	< 3	0.94	< .2	1	1	5	1.3	80	0.32	10	0.04	562	3	0.01	1	0.019	27	8	0.1	97	5	< .01	< 8	1	< 2	43
RS-422.1 1634-1650	1	0.63	95	< 3	95	< 3	0.97	0.2	1	1	4	1.45	60	0.34	15	0.03	594	18	0.01	1	0.023	32	15	2.3	105	7	< .01	< 8	< 1	< 2	50
STANDARD C3	5.7	1.87	54	20	149	24	0.57	22.9	13	167	61	3.28	890	0.16	18	0.58	748	25	0.04	35	0.086	31	19	1.2	31	19	0.1	20	81	21	169

American Assay Laboratories

INVOICE

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Reno, Nevada 89510
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Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431

(702) 356-0606

INVOICE NO: SP 0048712-IN
INVOICE DATE: 05/12/98

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

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CUSTOMER P.O.	PROJECT	TERMS
RS-422.1	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
32	SAMPLES RECEIVED	.00	.00
32	JAW CRUSHING CHARGE	1.30	41.60
32	SPLITTING CHARGE	1.20	38.40
32	FINE MILLING CHARGE	2.00	64.00
32	Au (1 A.T. FIRE ASSAY)	8.00	256.00
32	HYDROCHLORIC/NITRIC DIGESTION	2.00	64.00
32	Ag ANALYSES	1.00	32.00
32	COMPOSITE CHARGE	1.00	32.00
8	MULTI-ELEMENT ICP PACKAGE	9.80	78.40

COPY

NET INVOICE:	606.40
LESS DISCOUNT:	212.24
FREIGHT:	.00
INVOICE TOTAL:	394.16

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ANALYSIS REPORT SP048789

American Assay Laboratories

PO BOX 11530
RENO NV,USA
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NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW

: R. VANCE

:

:

CLIENT REFERENCE No: RS-422.1 RECEIVED : 8 MAY 1998

No. SAMPLES : 24 REPORTED : 8 MAY 1998

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

9536 95-3615-477
OK -RBV

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048789

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-422.1

REPORTED : 8 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-422.1 1650-1654	9		<0.001		<0.5	<0.02
RS-422.1 1654.0-1656.5	10		<0.001		0.5	<0.02
RS-422.1 1656.5-1658.0	57	54	0.002	0.002	1.7	0.05
RS-422.1 1658.0-1660.2	27		<0.001		1.7	0.05
RS-422.1 1660.2-1662.6	57		0.002		2.6	0.08
RS-422.1 1662.6-1665.0	60		0.002		2.9	0.08
RS-422.1 1665-1670	18		<0.001		0.6	<0.02
RS-422.1 1670-1675	36		0.001		<0.5	<0.02
RS-422.1 1675-1680	<5		<0.001		<0.5	<0.02
RS-422.1 1680-1684	25		<0.001		1.1	0.03
RS-422.1 1684.0-1688.1	152		0.004		2.5	0.07
RS-422.1 1688.1-1691.0	80		0.002		5.1	0.15
RS-422.1 1688.1-1691.0B		SAMPLE NOT RECEIVED				
RS-422.1 1691-1694	18		<0.001		0.6	<0.02
RS-422.1 1694-1695	110		0.003		21.3	0.62
RS-422.1 1695-1700	31		<0.001		1.7	0.05
RS-422.1 1700-1705	76	66	0.002	0.002	1.3	0.04
RS-422.1 1705.0-1709.4	30		<0.001		1.4	0.04
RS-422.1 1709.4-1714.6	54		0.002		2.3	0.07
RS-422.1 1714.6-1719.5	21		<0.001		2.2	0.06
RS-422.1 1719.5-1722.4	18	22	<0.001	<0.001	1.8	0.05
RS-422.1 1722.4-1725.0	105	120	0.003	0.004	4.1	0.12
RS-422.1 1725-1730	59		0.002		2.4	0.07
RS-422.1 1730-1735	315		0.009		5.7	0.17
RS-422.1 1735-1740	165		0.005		5.1	0.15

1556 75-3615-477
IK -RTSV

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ANALYSIS REPORT SP048890

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW

: R. VANCE

:

:

CLIENT REFERENCE No: RS-422.1 (1740-1819)

No. SAMPLES : 21

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 15 MAY 1998

REPORTED : 15 MAY 1998

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

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048890

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-422.1

REPORTED : 15 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-422.1 1740-1745	89		0.003		3.9	0.11
RS-422.1 1745.0-1746.6	90		0.003		2.3	0.07
RS-422.1 1746.6-1751.6	91		0.003		2.2	0.06
RS-422.1 1751.6-1755.0	136		0.004		2.4	0.07
RS-422.1 1755-1759	104		0.003		1.4	0.04
RS-422.1 1759-1762	135	142	0.004	0.004	1.4	0.04
RS-422.1 1759-1762B	741	1076	0.022	0.031	<0.5	<0.02
RS-422.1 1762-1766	191		0.006		2.6	0.08
RS-422.1 1766-1769	76		0.002		1.6	0.05
RS-422.1 1769-1770	480	472	0.014	0.014	6.6	0.19
RS-422.1 1770-1774	116		0.003		2.4	0.07
RS-422.1 1774-1778	221	222	0.006	0.006	2.4	0.07
RS-422.1 1778.0-1779.4	96		0.003		3.1	0.09
RS-422.1 1779.4-1784.0	<5		<0.001		0.5	<0.02
RS-422.1 1784-1789	14		<0.001		2.4	0.07
RS-422.1 1789-1794	49	74	0.001	0.002	2.1	0.06
RS-422.1 1794-1799	17		<0.001		0.6	<0.02
RS-422.1 1799.0-1804.1	58	106	0.002	0.003	3.0	0.09
RS-422.1 1804.1-1809.0	20		<0.001		1.4	0.04
RS-422.1 1809-1814	11		<0.001		0.5	<0.02
RS-422.1 1814-1819	5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	0.2	1	2	0.01	5	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP048890
METHOD: AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RS-422.1 1740-1755	2.7	0.62	149	< 3	58	< 3	2.19	0.3	< 1	2	4	2.37	30	0.33	9	0.03	669	26	0.01	1	0.018	21	15	8.2	136	2	< .01	< 8	1	< 2	31
RS-422.1 1755-1769	1.9	0.38	176	< 3	75	< 3	2.64	< .2	< 1	3	5	1.59	60	0.24	10	0.03	744	13	0.01	1	0.007	12	11	12.9	141	2	< .01	< 8	1	< 2	25
RS-422.1 1769-1779.4	3.5	0.36	322	< 3	92	< 3	1.05	0.4	< 1	3	14	1.9	40	0.25	14	0.02	428	20	0.01	2	0.013	17	15	14.9	112	2	< .01	< 8	1	< 2	23
RS-422.1 1779.4-1799.0	1	0.69	30	< 3	37	< 3	0.77	1	< 1	4	6	1.84	35	0.36	37	0.03	452	2	0.04	2	0.006	32	< 3	5.7	100	10	< .01	< 8	1	< 2	83
RS-422.1 1799-1819	1.2	0.62	15	< 3	43	< 3	0.44	0.2	< 1	3	4	1.34	25	0.36	38	0.02	231	1	0.07	1	0.006	28	< 3	2.9	79	11	< .01	< 8	1	< 2	74

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

(702) 356-0606

INVOICE NO: SP 0048890-IN
INVOICE DATE: 06/03/98

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RS-422.1	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
21	SAMPLES RECEIVED	.00	.00
20	JAW CRUSHING CHARGE	1.30	26.00
20	SPLITTING CHARGE	1.20	24.00
20	FINE MILLING CHARGE	2.00	40.00
21	Au (1 A.T. FIRE ASSAY)	8.00	168.00
21	HYDROCHLORIC/NITRIC DIGESTION	2.00	42.00
21	Ag ANALYSES	1.00	21.00
20	COMPOSITE CHARGE	1.00	20.00
5	MULTI-ELEMENT ICP PACKAGE	9.80	49.00
5	Se ANALYSES	7.15	35.75

#276.74

COPY

NET AMOUNT:	425.75
LESS DISCOUNT:	149.01
FREIGHT:	.00
INVOICE TOTAL:	276.74

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ANALYSIS REPORT SP048908

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW
: R. VANCE
:
:

CLIENT REFERENCE No: RS-422.1 (1819-1930)
No. SAMPLES : 25
MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 18 MAY 1998
REPORTED : 18 MAY 1998

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 : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048908

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-422.1

REPORTED : 18 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-422.1 1819-1824	<5		<0.001		1.0	0.03
RS-422.1 1824-1829	18	20	<0.001	<0.001	<0.5	<0.02
RS-422.1 1829-1834	<5		<0.001		<0.5	<0.02
RS-422.1 1834-1839	26		<0.001		0.6	<0.02
RS-422.1 1839.0-1843.3	6		<0.001		0.6	<0.02
RS-422.1 1843.3-1847.0	15		<0.001		1.0	0.03
RS-422.1 1847-1852	13	5	<0.001	<0.001	0.7	0.02
RS-422.1 1852-1856	14	16	<0.001	<0.001	0.9	0.03
RS-422.1 1856-1860	13		<0.001		0.7	0.02
RS-422.1 1860.0-1863.4	25		<0.001		1.2	0.04
RS-422.1 1863.4-1868.0	54		0.002		0.7	0.02
RS-422.1 1868.0-1872.8	35		0.001		0.7	0.02
RS-422.1 1872.8-1875.6	81	58	0.002	0.002	1.6	0.05
RS-422.1 1875.6-1880.0	13		<0.001		1.2	0.04
RS-422.1 1880-1885	15		<0.001		0.7	0.02
RS-422.1 1885-1890	138		0.004		7.8	0.23
RS-422.1 1890-1895	840	994	0.025	0.029	47.4	1.38
RS-422.1 1895-1900	30		<0.001		1.1	0.03
RS-422.1 1900-1905	21		<0.001		0.9	0.03
RS-422.1 1905-1910	31		<0.001		0.5	<0.02
RS-422.1 1910-1915	5		<0.001		<0.5	<0.02
RS-422.1 1915-1919	6		<0.001		<0.5	<0.02
RS-422.1 1919.0-1922.3	<5		<0.001		<0.5	<0.02
RS-422.1 1922.3-1926.2	18	26	<0.001	<0.001	1.0	0.03
RS-422.1 1926.2-1930.0	48	47	0.001	0.001	0.8	0.02

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	0.2	1	2	0.01	5	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

CLIENT:	*NEWMONT GOLD COMPANY*
CLIENT REF:	ROSEBUD EXPLORATION
AAL REF:	SP048908
METHOD:	AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RS-422.1 1819-1839	0.7	0.63	12	< 3	49	< 3	0.68	0.2	< 1	3	2	1.3	30	0.39	35	0.02	305	1	0.07	2	0.005	23	< 3	1.8	81	11	< .01	< 8	< 1	< 2	80
RS-422.1 1839-1856	< .3	0.63	13	< 3	25	< 3	1.5	0.2	< 1	2	2	0.8	30	0.45	32	0.02	537	1	0.03	1	0.004	23	< 3	3.4	154	10	< .01	< 8	< 1	< 2	60
RS-422.1 1856.0-1872.8	< .3	0.63	17	< 3	33	< 3	0.14	0.2	< 1	2	3	1.21	40	0.41	31	0.02	64	< 1	0.02	1	0.006	24	< 3	4.9	88	11	< .01	< 8	< 1	< 2	69
RS-422.1 1872.8-1875.6	1	0.49	53	< 3	41	< 3	0.13	0.9	1	2	3	3.99	95	0.29	23	0.01	77	1	0.02	2	0.006	26	8	16.5	85	7	< .01	< 8	< 1	< 2	288
RS-422.1 1875.6-1895.0	11.5	0.49	31	< 3	35	< 3	1.42	< .2	< 1	2	5	1.33	125	0.34	26	0.01	1335	1	0.02	3	0.004	23	4	17.6	101	7	< .01	< 8	< 1	< 2	54
RS-422.1 1895-1915	< .3	0.42	6	< 3	48	< 3	0.28	< .2	< 1	4	5	1.17	35	0.33	38	0.01	238	1	0.02	3	0.005	19	< 3	3.9	87	12	< .01	< 8	1	< 2	55
RS-422.1 1915-1930	< .3	0.81	3	< 3	99	< 3	0.56	0.3	< 1	2	3	0.93	15	0.49	38	0.03	259	5	0.03	2	0.005	28	< 3	3.1	179	8	< .01	< 8	< 1	< 2	66

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

(702) 356-0606

INVOICE NO: SP 0048908-IN
INVOICE DATE: 06/03/98

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RS-422.1	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
25	SAMPLES RECEIVED	.00	.00
25	JAW CRUSHING CHARGE	1.30	32.50
25	SPLITTING CHARGE	1.20	30.00
25	FINE MILLING CHARGE	2.00	50.00
25	Au (1 A.T. FIRE ASSAY)	8.00	200.00
25	HYDROCHLORIC/NITRIC DIGESTION	2.00	50.00
25	Ag ANALYSES	1.00	25.00
24	COMPOSITE CHARGE	1.00	24.00
7	MULTI-ELEMENT ICP PACKAGE	9.80	68.60
7	Se ANALYSES	7.15	50.05

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NET INVOICE:	530.15
LESS DISCOUNT:	185.55
FREIGHT:	.00
INVOICE TOTAL:	344.60

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ANALYSIS REPORT SP048927

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

NEWMONT GOLD COMPANY

COPIES TO : C. BALLEW
: R. VANCE
:
:

CLIENT REFERENCE No: RS-422.1 (1930 - 2091.7)
No. SAMPLES : 25
MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 20 MAY 1998
REPORTED : 20 MAY 1998

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 : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048927

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : RS-422.1

REPORTED : 20 MAY 1998

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
RS-422.1 1930.0-1935.1	94	80	0.003	0.002	11.6	0.34
RS-422.1 1935.1-1938.8	8		<0.001		0.7	0.02
RS-422.1 1938.8-1942.8	6		<0.001		<0.5	<0.02
RS-422.1 1942.8-1946.4	24		<0.001		<0.5	<0.02
RS-422.1 1946.4-1952.7	<5		<0.001		<0.5	<0.02
RS-422.1 1952.7-1956.2	<5		<0.001		<0.5	<0.02
RS-422.1 1956.2-1961.3	7		<0.001		1.2	0.04
RS-422.1 1961.3-1962.2	<5		<0.001		<0.5	<0.02
RS-422.1 1962.2-1964.0	<5		<0.001		<0.5	<0.02
RS-422.1 1964.0-1967.2	<5		<0.001		<0.5	<0.02
RS-422.1 1967.2-1971.9	<5		<0.001		<0.5	<0.02
RS-422.1 1971.9-1976.4	<5		<0.001		<0.5	<0.02
RS-422.1 1976.4-1981.2	<5		<0.001		<0.5	<0.02
RS-422.1 1981.2-1985.9	<5		<0.001		<0.5	<0.02
RS-422.1 1990.7-1996.5	13		<0.001		1.8	0.05
RS-422.1 1996.5-2002.3B	112		0.003		<0.5	<0.02
RS-422.1 2002.3-2008.6	<5		<0.001		<0.5	<0.02
RS-422.1 2017.3-2023.2	<5		<0.001		<0.5	<0.02
RS-422.1 2033.9-2039.0	<5		<0.001		<0.5	<0.02
RS-422.1 2049.0-2052.2	5		<0.001		<0.5	<0.02
RS-422.1 2052.2-2054.6	28	32	<0.001	<0.001	1.5	0.04
RS-422.1 2054.6-2058.4	5		<0.001		<0.5	<0.02
RS-422.1 2058.4-2063.6	<5		<0.001		<0.5	<0.02
RS-422.1 2071.8-2076.6	<5		<0.001		<0.5	<0.02
RS-422.1 2086.6-2091.7	<5		<0.001		<0.5	<0.02

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

(702) 356-0606

INVOICE NO: SP 0048927-IN
INVOICE DATE: 06/03/98

INVOICE TO:
NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

NEWMONT EXPLORATION LTD.
861 W. 6TH STREET
WINNEMUCCA NV 89445

CUSTOMER P.O.	PROJECT	TERMS
RS-422.1	ROSEBUD EXPLOR.	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
25	SAMPLES RECEIVED	.00	.00
24	JAW CRUSHING CHARGE	1.30	31.20
24	SPLITTING CHARGE	1.20	28.80
24	FINE MILLING CHARGE	2.00	48.00
25	Au (1 A.T. FIRE ASSAY)	8.00	200.00
25	HYDROCHLORIC/NITRIC DIGESTION	2.00	50.00
25	Ag ANALYSES	1.00	25.00
12	COMPOSITE CHARGE	1.00	12.00
13	MULTI-ELEMENT ICP PACKAGE	9.80	127.40
13	Se ANALYSES	7.15	92.95

NET INVOICE:	615.35
LESS DISCOUNT:	215.37
FREIGHT:	.00
INVOICE TOTAL:	399.98

COPY

AMERICAN ASSAY LABORATORIES

AAL 01-2 ICP PACKAGE DETECTION LIMITS

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	5	0.01	1	0.01	2	1	0.01	1	0.001	3	2	0.2	1	2	0.01	5	1	2	1

0.500 GRAMS OF PULP IS DIGESTED WITH HYDROCHLORIC AND NITRIC ACID AT 95 DEGREE CENTIGRADE FOR ONE HOUR.
DIGEST IS PARTIAL FOR B, Ba, Ca, Cr, Fe, La, Mg, Mn, Sr, Ti AND W.
DIGEST IS LIMITED FOR Al, K AND Na.

CLIENT: *NEWMONT GOLD COMPANY*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP048927
METHOD: AAL 01-2 + Se

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Th	Ti	U	V	W	Zn
SAMPLES	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RS-422.1 1930.0-1935.1	11.2	1.22	12	< 3	103	< 3	0.9	0.3	9	4	28	1.42	235	0.53	34	0.11	303	< 1	0.06	22	0.042	19	3	2.6	423	2	< .01	< 8	8	< 2	75
RS-422.1 1935.1-1956.2	0.6	1.43	2	3	267	< 3	2.16	0.4	10	16	28	2.18	40	0.46	33	0.26	934	< 1	0.07	23	0.058	13	< 3	0.2	417	2	< .01	< 8	23	< 2	71
RS-422.1 1956.2-1961.3	4.8	0.68	3	< 3	115	< 3	2.56	0.2	3	6	14	2.18	35	0.22	32	0.15	1292	1	0.08	12	0.098	11	< 3	0.1	213	< 2	0.03	< 8	19	< 2	29
RS-422.1 1961.3-1962.2	< .3	1.06	2	< 3	1407	< 3	1.74	0.3	4	3	11	1.32	10	0.37	37	0.18	435	< 1	0.08	6	0.134	18	< 3	< .1	296	2	0.01	< 8	18	< 2	37
RS-422.1 1964.0-1985.9	0.7	1.05	5	< 3	202	< 3	1.39	< .2	6	4	10	2.14	210	0.22	31	0.3	452	6	0.08	7	0.092	18	< 3	0.1	155	2	< .01	< 8	13	< 2	59
RS-422.1 1990.7-1996.5	2	1.87	2	< 3	352	< 3	2	1	21	122	30	3.84	25	0.25	24	0.83	1051	< 1	0.09	65	0.151	5	< 3	< .1	213	< 2	0.01	< 8	62	< 2	103
RS-422.1 2002.3-2008.6	< .3	1.75	< 2	4	234	< 3	0.92	0.9	16	34	41	3.66	< 10	0.42	30	0.51	422	< 1	0.09	83	0.078	9	< 3	< .1	293	3	0.03	< 8	54	< 2	60
RS-422.1 2017.3-2023.2	1.2	1.68	4	4	567	< 3	2.07	0.8	23	125	31	3.69	15	0.19	22	0.57	750	< 1	0.1	86	0.111	11	< 3	0.1	149	2	0.04	< 8	66	< 2	69
RS-422.1 2033.9-2039.0	< .3	1.57	4	< 3	865	< 3	2.19	0.9	29	117	31	3.84	25	0.19	21	0.44	690	< 1	0.09	94	0.114	9	< 3	< .1	177	< 2	0.01	< 8	77	< 2	65
RS-422.1 2052.2-2054.6	1.1	1.62	38	< 3	118	3	3.39	0.8	19	93	26	3.03	60	0.18	18	0.4	407	1	0.07	75	0.116	12	< 3	3	365	< 2	< .01	< 8	42	< 2	64
RS-422.1 2054.6-2063.6	0.5	1.8	4	< 3	135	< 3	3.4	0.6	22	146	29	3.4	30	0.18	20	0.6	813	2	0.1	97	0.12	11	< 3	0.2	300	< 2	< .01	< 8	57	< 2	68
RS-422.1 2071.8-2076.6	< .3	1.72	< 2	< 3	318	< 3	2.78	0.6	17	138	27	3.56	< 10	0.16	19	0.78	675	< 1	0.09	88	0.104	3	< 3	0.1	201	< 2	< .01	< 8	50	< 2	68
RS-422.1 2086.6-2091.7	< .3	1.8	< 2	< 3	213	< 3	3.2	0.8	23	156	25	3.82	< 10	0.12	22	1.14	727	< 1	0.11	103	0.106	5	< 3	< .1	213	< 2	0.01	< 8	74	< 2	59
STANDARD C3	5.4	1.86	58	19	151	25	0.54	24.2	12	166	61	3.21	915	0.16	20	0.59	756	25	0.04	36	0.089	33	16	0.8	29	20	0.08	21	76	16	151
STANDARD G-2	< .3	0.89	< 2	< 3	215	< 3	0.57	< .2	4	68	2	1.78	< 10	0.44	8	0.54	478	1	0.07	7	0.089	< 3	< 3	< .1	69	3	0.11	< 8	36	2	37

SP

SUBMITTAL FORM

American Assay Laboratories

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Mazatlan Office
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011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold Co

Address: 861 W. 6th St

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: ( ) 625-5655

Project Name: Rosebud Explor. Purchase Order Number:

Date Submitted: 4-29-98 Number of Samples: 32

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-422.1:		
1501-1650'	Core	Au, Ag FA30 (Ag D210)
(see attached List)		and
		ICP Pkg (AAL 1/2+Se)
		on 4 sample composites
		As marked.

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:

Charlotte Ballew
Winnemucca

Results to:

Randy Vance
Winnemucca

Comments:

Newmont Rosebud Sample Prep

CLIENT FILE COPY

NGC Copy

Assays and Geochem

Hole No	from depth	to depth	Interval	
RS-422.1	1501	1506	5	
NQ core	1506	1511	5	
	1511	1516	5	1
	1516	1519	3	
	1519	1522.5	3.5	
	1522.5	1526	3.5	
	1526	1531	5	2
	1531	1536	5	
	1536	1541	5	
	1541	1546	5	
	1546	1551	5	3
	1551	1556	5	
	1556	1561	5	
	1561	1566	5	
	1566	1571	5	4
	1571	1576	5	
	1576	1581	5	
	1581	1586	5	
	1586	1591	5	5
	1591	1594	3	
	1594	1598	4	
	1598	1603	5	6
	1603	1608	5	
	1608	1613	5	
	1613	1618	5	
	1618	1623	5	7
	1623	1628	5	
	1628	1634	6	
	1634	1636.2	2.2	
	1636.2	1640	3.8	
	1640	1645	5	8
	1645	1650	5	

NGC Copy

Rosebud
Assays and Geochem

5/7/98

	RS-422.1	[redacted]		
1		1650	1654	4
		1654	1656.5	2.5
		1656.5	1658	1.5
		1658	1660.2	2.2
5		1660.2	1662.6	2.4
		1662.6	1665	2.4
		1665	1670	5
		1670	1675	5
		1675	1680	5
10		1680	1684	4
11		1684	1688.1	4.1
12		1688.1	1691	2.9
3 → 14		1691	1694	3
15		1694	1695	1
		1695	1700	5
		1700	1705	5
		1705	1709.4	4.4
		1709.4	1714.6	5.2
20		1714.6	1719.5	4.9
		1719.5	1722.4	2.9
		1722.4	1725	2.6
		1725	1730	5
		1730	1735	5
25		1735	1740	5

ICP Composite

"

"

plus 1688.1 – 1691 B (NO ICP)

"

"

25 TOTAL

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Telephone/Fax
011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold Co.

Address: 861 W. 6th St

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: (702) 625-5655

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 5-7-98 Number of Samples: 25

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-422.1	Core	Au, Ag FA30 (Ag D210)
1650-1740' (see attached List)		and
		ICP AAL 1/2 + Se
		on composites As shown (6)
		(No ICP on 1688.1-1691 B)

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:

Charlotte Ballew
Winn

Results to:

Randy Vance
Winn.

Comments:

Newmont Rosebud Sample Prep

CLIENT FILE COPY

SP

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City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: (702) 625-5655

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 5/14/98 Number of Samples: 21

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-422.1:	Core	Au FA30, Ag DZ10
1740-1819' as shown		and
on attached sheet		ICP PKg: AAL 1/2 + Se
		on composites as shown (5)
		Do not ICP "B" sample

PEEL HERE

MS-3
MS-3
1759-1762 B

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:

Charlotte Ballew
Winn.

Results to:

Randy Vance
Winn.

Comments:

Newmont Rosebud Standard Prep

CLIENT FILE COPY

ICP Composites

RS-422.1	1740	1745	5	1
	1745	1746.6	1.6	
	1746.6	1751.6	5	
	1751.6	1755	3.4	
	1755	1759	4	5
	1759	1762	3	
	1759	1762	**B**	NO COMPOSITE (Leave out)
	1762	1766	4	
	1766	1769	3	
	1769	1770	1	10
	1770	1774	4	
	1774	1778	4	
	1778	1779.4	1.4	
	1779.4	1784	4.6	
	1784	1789	5	15
	1789	1794	5	
	1794	1799	5	
	1799	1804.1	5.1	
	1804.1	1809	4.9	
	1809	1814	5	
	1814	1819	5	21

1 2 3 4 5

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Santiago, Chile
Mendoza, Argentina

Company: Newmont Gold Co

Address: 861 W. 6th St

City Winnemucca State NV Zip 89445

Telephone Number: ( ) Fax Number: ( )

Project Name: Rosebud Expl Purchase Order Number:

Date Submitted: 5-16-98 Number of Samples: 25

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-422.1:	Core	Au FA 30 Ag D210
		and
1819 - 1930		ICP Pkg AAL 1/2 + Se
See attached List		on composites as marked

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:

Charlotte Ballew
Winn

Results to:

Randy Vance
Winn.

Comments:

Newmont Rosebud Sample Prep

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ICP Composites

	RS-422.1	1819	1824	5	1
		1824	1829	5	
		1829	1834	5	
		1834	1839	5	
5		1839	1843.3	4.3	2
		1843.3	1847	3.7	
		1847	1852	5	
		1852	1856	4	
		1856	1860	4	3
10		1860	1863.4	3.4	
		1863.4	1868	4.6	
		1868	1872.8	4.8	
		1872.8	1875.6	2.8	separate ICP
		1875.6	1880	4.4	4
15		1880	1885	5	
		1885	1890	5	
		1890	1895	5	
		1895	1900	5	5
		1900	1905	5	
20		1905	1910	5	
		1910	1915	5	
		1915	1919	4	6
		1919	1922.3	3.3	
		1922.3	1926.2	3.9	
25		1926.2	1930	3.8	

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Address: 861 W. 6th Street

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623-3493 Fax Number: (702) 625-5655

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 5-19-98 Number of Samples: 25

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
RS-422.1: 1930-2100'	Core	AuFA30 & Ag D210 each sample
see attached list		
		AAL 1/2 + Se on composites or
		individual samples as shown
		on attached list

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month

[ ] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

Charlotte Ballew
Newmont Gold
Winnemucca

Results to:

Randy Vance
Newmont Gold
Winnemucca

Comments:

Newmont Rosebud Standard Prep

RS-422.1
MS-1
(RMG1)
1996.5-2002.3B

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RS-422.1

ICP analyses:

1930	1935.1	- individual sample
1935.1	1938.8	composite
1938.8	1942.8	
1942.8	1946.4	
1946.4	1952.7	
1952.7	1956.2	
1956.2	1961.3	- individual sample
1961.3	1962.2	- individual sample
1962.2	1964	- no ICP analyses
1964	1967.2	composite
1967.2	1971.9	
1971.9	1976.4	
1976.4	1981.2	
1981.2	1985.9	
1990.7	1996.5	- individual sample
1996.5	2002.3B	- no ICP analyses
2002.3	2008.6	- individual sample
2017.3	2023.2	- individual sample
2033.9	2039	- individual sample
2049	2052.2	- no ICP analyses
2052.2	2054.6	- individual sample
2054.6	2058.4	composite
2058.4	2063.6	
2071.8	2076.6	- individual sample
2086.6	2091.7	- individual sample

25 Au+Ag analyses 13 AAL1/2+Se analyses

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT EXPLORATION LTD. *
****

JOB NUMBER: 29-0521-311

WELL NAME: RS-422.1

LOCATION: ROSEBUD MINE

SURVEY DATE: 02/18/98

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: TRUE NORTH

TIE-ON COORDINATES AT: 0 M.D.
TAKEN FROM: COLLAR
WATER CONTACT= 54'

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

COMMENTS: ** BOART LONGYEAR **
***** MIKE JEX *****

PROJECTED F/2067' T/2100'.

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

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-422.1

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	-88.75	250.22	0.00 N	0.00 E	0.00		0.00	AT 000.00
50.0	49.95	1.89	-0.905	-86.45	252.11	0.66 S	1.99 W	4.60	2.30	2.09	AT 251.62
100.0	99.79	5.72	-2.171	-84.24	263.18	1.43 S	5.95 W	4.75	2.38	6.12	AT 256.46
150.0	149.44	11.50	-3.006	-82.30	273.37	1.53 S	11.79 W	4.54	2.27	11.89	AT 262.58
200.0	198.94	18.53	-3.486	-81.49	273.29	1.13 S	18.82 W	1.62	0.81	18.86	AT 266.58
250.0	248.35	26.15	-4.045	-80.95	272.78	0.72 S	26.45 W	1.09	0.55	26.46	AT 268.43
300.0	297.74	33.95	-4.697	-81.03	272.12	0.39 S	34.27 W	0.26	0.13	34.27	AT 269.35
350.0	347.15	41.57	-5.379	-81.36	272.12	0.10 S	41.92 W	0.66	0.33	41.92	AT 269.86
400.0	396.63	48.69	-6.041	-82.19	271.70	0.14 N	49.07 W	1.66	0.83	49.07	AT 270.16
450.0	446.21	55.16	-6.704	-82.86	271.03	0.29 N	55.57 W	1.35	0.68	55.57	AT 270.30
500.0	495.84	61.22	-7.341	-83.16	271.42	0.42 N	61.65 W	0.61	0.30	61.65	AT 270.39
550.0	545.49	67.02	-7.959	-83.43	270.88	0.54 N	67.49 W	0.55	0.28	67.49	AT 270.46
600.0	595.17	72.63	-8.648	-83.58	269.57	0.56 N	73.14 W	0.42	0.21	73.15	AT 270.44
650.0	644.87	78.12	-9.346	-83.72	270.39	0.56 N	78.67 W	0.33	0.17	78.68	AT 270.41
700.0	694.57	83.55	-9.910	-83.73	272.23	0.68 N	84.14 W	0.40	0.20	84.14	AT 270.47
750.0	744.27	89.01	-10.464	-83.68	270.64	0.82 N	89.62 W	0.36	0.18	89.62	AT 270.53
800.0	793.97	94.38	-11.190	-83.86	268.40	0.78 N	95.04 W	0.60	0.30	95.05	AT 270.47
850.0	843.68	99.73	-11.900	-83.75	270.90	0.75 N	100.44 W	0.58	0.29	100.44	AT 270.43
900.0	893.36	105.37	-12.380	-83.25	273.73	0.98 N	106.09 W	1.19	0.59	106.09	AT 270.53
950.0	943.02	111.17	-12.631	-83.41	275.80	1.46 N	111.88 W	0.58	0.29	111.89	AT 270.75
1000.0	992.66	117.13	-12.828	-82.89	274.91	2.02 N	117.81 W	1.06	0.53	117.83	AT 270.98
1050.0	1042.30	123.14	-12.700	-83.27	282.18	2.90 N	123.76 W	1.91	0.95	123.80	AT 271.34
1100.0	1091.96	128.90	-11.820	-83.33	289.70	4.50 N	129.36 W	1.76	0.88	129.44	AT 271.99
1150.0	1141.63	134.51	-10.596	-83.47	289.35	6.42 N	134.78 W	0.29	0.15	134.93	AT 272.73
1200.0	1191.30	140.12	-9.524	-83.42	286.78	8.19 N	140.20 W	0.60	0.30	140.44	AT 273.34
1250.0	1240.97	145.73	-8.475	-83.47	288.88	9.93 N	145.63 W	0.49	0.24	145.97	AT 273.90
1300.0	1290.65	151.29	-7.421	-83.53	287.03	11.68 N	151.02 W	0.44	0.22	151.47	AT 274.42
1350.0	1340.34	156.81	-6.456	-83.58	287.24	13.33 N	156.38 W	0.11	0.06	156.95	AT 274.87
1400.0	1390.00	162.51	-5.466	-83.14	286.94	15.03 N	161.91 W	0.88	0.44	162.60	AT 275.30
1450.0	1439.64	168.42	-4.456	-83.08	286.91	16.78 N	167.65 W	0.12	0.06	168.48	AT 275.71
1500.0	1489.34	173.78	-3.623	-84.48	285.04	18.28 N	172.85 W	2.83	1.41	173.81	AT 276.04
1550.0	1539.11	178.57	-3.125	-84.46	281.30	19.37 N	177.54 W	0.72	0.36	178.59	AT 276.23
1600.0	1588.88	183.36	-2.637	-84.48	284.79	20.46 N	182.23 W	0.67	0.34	183.38	AT 276.41
1650.0	1638.65	188.08	-1.978	-84.58	285.58	21.71 N	186.83 W	0.25	0.13	188.09	AT 276.63
1700.0	1688.43	192.70	-1.420	-84.73	282.60	22.84 N	191.35 W	0.63	0.32	192.70	AT 276.81
1750.0	1738.22	197.31	-1.080	-84.66	280.31	23.76 N	195.88 W	0.45	0.22	197.31	AT 276.92
1800.0	1788.00	201.96	-0.811	-84.64	280.76	24.61 N	200.46 W	0.09	0.05	201.96	AT 277.00

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-422.1

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
1850.0	1837.79	206.57	-0.562	-84.77	279.89	25.44 N	205.00 W	0.31	0.15	206.57	AT 277.07
1900.0	1887.58	211.10	-0.392	-84.83	278.86	26.18 N	209.47 W	0.22	0.11	211.10	AT 277.12
1950.0	1937.38	215.58	-0.195	-84.87	280.64	26.94 N	213.89 W	0.33	0.16	215.58	AT 277.18
2000.0	1987.17	220.13	-0.061	-84.68	277.25	27.64 N	218.39 W	0.72	0.36	220.13	AT 277.21
2050.0	2036.96	224.76	-0.066	-84.69	277.08	28.22 N	222.98 W	0.04	0.02	224.76	AT 277.21
2067.0	2053.89	226.32	-0.053	-84.81	278.34	28.43 N	224.53 W	0.98	0.17	226.32	AT 277.22
2100.0	2086.76	229.26	-0.004	-84.97	278.03	28.85 N	227.44 W	0.49	0.16	229.26	AT 277.23

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*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  2100.0 FEET EQUALS    229.26    FEET AT   277.23         *
*                          ********                         *
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redrilled
1450-2100'

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT EXPLORATION LTD. *
****

JOB NUMBER: 29-0521-311

WELL NAME: RS-422.1 / VS 035.00

LOCATION: ROSEBUD MINE

SURVEY DATE: 02/18/98

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: TRUE NORTH

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

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 125.00
WATER CONTACT= 54'

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

COMMENTS: ** BOART LONGYEAR **
***** MIKE JEX *****

PROJECTED F/2067' T/2100'.

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

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-422.1 / VS 035.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	-88.75	250.22	0.00 N	0.00 E	0.00		0.00	AT 000.00
50.0	49.95	-1.25	1.680	-86.45	252.11	0.66 S	1.99 W	4.60	2.30	2.09	AT 251.62
100.0	99.79	-4.05	4.588	-84.24	263.18	1.43 S	5.95 W	4.75	2.38	6.12	AT 256.46
150.0	149.44	-8.78	8.018	-82.30	273.37	1.53 S	11.79 W	4.54	2.27	11.89	AT 262.58
200.0	198.94	-14.77	11.720	-81.49	273.29	1.13 S	18.82 W	1.62	0.81	18.86	AT 266.58
250.0	248.35	-21.25	15.761	-80.95	272.78	0.72 S	26.45 W	1.09	0.55	26.46	AT 268.43
300.0	297.74	-27.85	19.974	-81.03	272.12	0.39 S	34.27 W	0.26	0.13	34.27	AT 269.35
350.0	347.15	-34.28	24.129	-81.36	272.12	0.10 S	41.92 W	0.66	0.33	41.92	AT 269.86
400.0	396.63	-40.27	28.033	-82.19	271.70	0.14 N	49.07 W	1.66	0.83	49.07	AT 270.16
450.0	446.21	-45.69	31.634	-82.86	271.03	0.29 N	55.57 W	1.35	0.68	55.57	AT 270.30
500.0	495.84	-50.74	35.017	-83.16	271.42	0.42 N	61.65 W	0.61	0.30	61.65	AT 270.39
550.0	545.49	-55.59	38.269	-83.43	270.88	0.54 N	67.49 W	0.55	0.28	67.49	AT 270.46
600.0	595.17	-60.24	41.494	-83.58	269.57	0.56 N	73.14 W	0.42	0.21	73.15	AT 270.44
650.0	644.87	-64.77	44.667	-83.72	270.39	0.56 N	78.67 W	0.33	0.17	78.68	AT 270.41
700.0	694.57	-69.31	47.698	-83.73	272.23	0.68 N	84.14 W	0.40	0.20	84.14	AT 270.47
750.0	744.27	-73.88	50.730	-83.68	270.64	0.82 N	89.62 W	0.36	0.18	89.62	AT 270.53
800.0	793.97	-78.30	53.877	-83.86	268.40	0.78 N	95.04 W	0.60	0.30	95.05	AT 270.47
850.0	843.68	-82.70	56.997	-83.75	270.90	0.75 N	100.44 W	0.58	0.29	100.44	AT 270.43
900.0	893.36	-87.47	60.048	-83.25	273.73	0.98 N	106.09 W	1.19	0.59	106.09	AT 270.53
950.0	943.02	-92.48	62.973	-83.41	275.80	1.46 N	111.88 W	0.58	0.29	111.89	AT 270.75
1000.0	992.66	-97.66	65.924	-82.89	274.91	2.02 N	117.81 W	1.06	0.53	117.83	AT 270.98
1050.0	1042.30	-103.04	68.612	-83.27	282.18	2.90 N	123.76 W	1.91	0.95	123.80	AT 271.34
1100.0	1091.96	-108.54	70.515	-83.33	289.70	4.50 N	129.36 W	1.76	0.88	129.44	AT 271.99
1150.0	1141.63	-114.08	72.048	-83.47	289.35	6.42 N	134.78 W	0.29	0.15	134.93	AT 272.73
1200.0	1191.30	-119.54	73.711	-83.42	286.78	8.19 N	140.20 W	0.60	0.30	140.44	AT 273.34
1250.0	1240.97	-124.99	75.396	-83.47	288.88	9.93 N	145.63 W	0.49	0.24	145.97	AT 273.90
1300.0	1290.65	-130.40	77.054	-83.53	287.03	11.68 N	151.02 W	0.44	0.22	151.47	AT 274.42
1350.0	1340.34	-135.75	78.776	-83.58	287.24	13.33 N	156.38 W	0.11	0.06	156.95	AT 274.87
1400.0	1390.00	-141.25	80.554	-83.14	286.94	15.03 N	161.91 W	0.88	0.44	162.60	AT 275.30
1450.0	1439.64	-146.95	82.415	-83.08	286.91	16.78 N	167.65 W	0.12	0.06	168.48	AT 275.71
1500.0	1489.34	-152.07	84.172	-84.48	285.04	18.28 N	172.85 W	2.83	1.41	173.81	AT 276.04
1550.0	1539.11	-156.54	85.963	-84.46	281.30	19.37 N	177.54 W	0.72	0.36	178.59	AT 276.23
1600.0	1588.88	-161.01	87.764	-84.48	284.79	20.46 N	182.23 W	0.67	0.34	183.38	AT 276.41
1650.0	1638.65	-165.49	89.379	-84.58	285.58	21.71 N	186.83 W	0.25	0.13	188.09	AT 276.63
1700.0	1688.43	-169.84	91.040	-84.73	282.60	22.84 N	191.35 W	0.63	0.32	192.70	AT 276.81
1750.0	1738.22	-174.08	92.887	-84.66	280.31	23.76 N	195.88 W	0.45	0.22	197.31	AT 276.92
1800.0	1788.00	-178.32	94.817	-84.64	280.76	24.61 N	200.46 W	0.09	0.05	201.96	AT 277.00

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-422.1 / VS 035.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
1850.0	1837.79	-182.52	96.743	-84.77	279.89	25.44 N	205.00 W	0.31	0.15	206.57	AT 277.07
1900.0	1887.58	-186.60	98.703	-84.83	278.86	26.18 N	209.47 W	0.22	0.11	211.10	AT 277.12
1950.0	1937.38	-190.66	100.617	-84.87	280.64	26.94 N	213.89 W	0.33	0.16	215.58	AT 277.18
2000.0	1987.17	-194.75	102.619	-84.68	277.25	27.64 N	218.39 W	0.72	0.36	220.13	AT 277.21
2050.0	2036.96	-198.85	104.781	-84.69	277.08	28.22 N	222.98 W	0.04	0.02	224.76	AT 277.21
2067.0	2053.89	-200.23	105.494	-84.81	278.34	28.43 N	224.53 W	0.98	0.17	226.32	AT 277.22
2100.0	2086.76	-202.85	106.820	-84.97	278.03	28.85 N	227.44 W	0.49	0.16	229.26	AT 277.23

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*                          ********                         *
*       THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF         *
*                          ********                         *
*  2100.0 FEET EQUALS      229.26    FEET AT   277.23       *
*                          ********                         *
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WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT EXPLORATION LTD. *
****

JOB NUMBER: 29-0521-311

WELL NAME: RS-422.1 / VS 305.00

LOCATION: ROSEBUD MINE

SURVEY DATE: 02/18/98

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: TRUE NORTH

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

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 035.00
WATER CONTACT= 54'

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

COMMENTS: ** BOART LONGYEAR **
***** MIKE JEX *****

PROJECTED F/2067' T/2100'.

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

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-422.1 / VS 305.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	-88.75	250.22	0.00 N	0.00 E	0.00		0.00	AT 000.00
50.0	49.95	-1.68	-1.249	-86.45	252.11	0.66 S	1.99 W	4.60	2.30	2.09	AT 251.62
100.0	99.79	-4.59	-4.053	-84.24	263.18	1.43 S	5.95 W	4.75	2.38	6.12	AT 256.46
150.0	149.44	-8.02	-8.775	-82.30	273.37	1.53 S	11.79 W	4.54	2.27	11.89	AT 262.58
200.0	198.94	-11.72	-14.775	-81.49	273.29	1.13 S	18.82 W	1.62	0.81	18.86	AT 266.58
250.0	248.35	-15.76	-21.249	-80.95	272.78	0.72 S	26.45 W	1.09	0.55	26.46	AT 268.43
300.0	297.74	-19.97	-27.849	-81.03	272.12	0.39 S	34.27 W	0.26	0.13	34.27	AT 269.35
350.0	347.15	-24.13	-34.277	-81.36	272.12	0.10 S	41.92 W	0.66	0.33	41.92	AT 269.86
400.0	396.63	-28.03	-40.271	-82.19	271.70	0.14 N	49.07 W	1.66	0.83	49.07	AT 270.16
450.0	446.21	-31.63	-45.687	-82.86	271.03	0.29 N	55.57 W	1.35	0.68	55.57	AT 270.30
500.0	495.84	-35.02	-50.745	-83.16	271.42	0.42 N	61.65 W	0.61	0.30	61.65	AT 270.39
550.0	545.49	-38.27	-55.593	-83.43	270.88	0.54 N	67.49 W	0.55	0.28	67.49	AT 270.46
600.0	595.17	-41.49	-60.239	-83.58	269.57	0.56 N	73.14 W	0.42	0.21	73.15	AT 270.44
650.0	644.87	-44.67	-64.767	-83.72	270.39	0.56 N	78.67 W	0.33	0.17	78.68	AT 270.41
700.0	694.57	-47.70	-69.314	-83.73	272.23	0.68 N	84.14 W	0.40	0.20	84.14	AT 270.47
750.0	744.27	-50.73	-73.882	-83.68	270.64	0.82 N	89.62 W	0.36	0.18	89.62	AT 270.53
800.0	793.97	-53.88	-78.300	-83.86	268.40	0.78 N	95.04 W	0.60	0.30	95.05	AT 270.47
850.0	843.68	-57.00	-82.701	-83.75	270.90	0.75 N	100.44 W	0.58	0.29	100.44	AT 270.43
900.0	893.36	-60.05	-87.466	-83.25	273.73	0.98 N	106.09 W	1.19	0.59	106.09	AT 270.53
950.0	943.02	-62.97	-92.482	-83.41	275.80	1.46 N	111.88 W	0.58	0.29	111.89	AT 270.75
1000.0	992.66	-65.92	-97.664	-82.89	274.91	2.02 N	117.81 W	1.06	0.53	117.83	AT 270.98
1050.0	1042.30	-68.61	-103.042	-83.27	282.18	2.90 N	123.76 W	1.91	0.95	123.80	AT 271.34
1100.0	1091.96	-70.51	-108.543	-83.33	289.70	4.50 N	129.36 W	1.76	0.88	129.44	AT 271.99
1150.0	1141.63	-72.05	-114.082	-83.47	289.35	6.42 N	134.78 W	0.29	0.15	134.93	AT 272.73
1200.0	1191.30	-73.71	-119.541	-83.42	286.78	8.19 N	140.20 W	0.60	0.30	140.44	AT 273.34
1250.0	1240.97	-75.40	-124.993	-83.47	288.88	9.93 N	145.63 W	0.49	0.24	145.97	AT 273.90
1300.0	1290.65	-77.05	-130.404	-83.53	287.03	11.68 N	151.02 W	0.44	0.22	151.47	AT 274.42
1350.0	1340.34	-78.78	-135.746	-83.58	287.24	13.33 N	156.38 W	0.11	0.06	156.95	AT 274.87
1400.0	1390.00	-80.55	-141.247	-83.14	286.94	15.03 N	161.91 W	0.88	0.44	162.60	AT 275.30
1450.0	1439.64	-82.42	-146.949	-83.08	286.91	16.78 N	167.65 W	0.12	0.06	168.48	AT 275.71
1500.0	1489.34	-84.17	-152.073	-84.48	285.04	18.28 N	172.85 W	2.83	1.41	173.81	AT 276.04
1550.0	1539.11	-85.96	-156.543	-84.46	281.30	19.37 N	177.54 W	0.72	0.36	178.59	AT 276.23
1600.0	1588.88	-87.76	-161.010	-84.48	284.79	20.46 N	182.23 W	0.67	0.34	183.38	AT 276.41
1650.0	1638.65	-89.38	-165.494	-84.58	285.58	21.71 N	186.83 W	0.25	0.13	188.09	AT 276.63
1700.0	1688.43	-91.04	-169.844	-84.73	282.60	22.84 N	191.35 W	0.63	0.32	192.70	AT 276.81
1750.0	1738.22	-92.89	-174.081	-84.66	280.31	23.76 N	195.88 W	0.45	0.22	197.31	AT 276.92
1800.0	1788.00	-94.82	-178.324	-84.64	280.76	24.61 N	200.46 W	0.09	0.05	201.96	AT 277.00

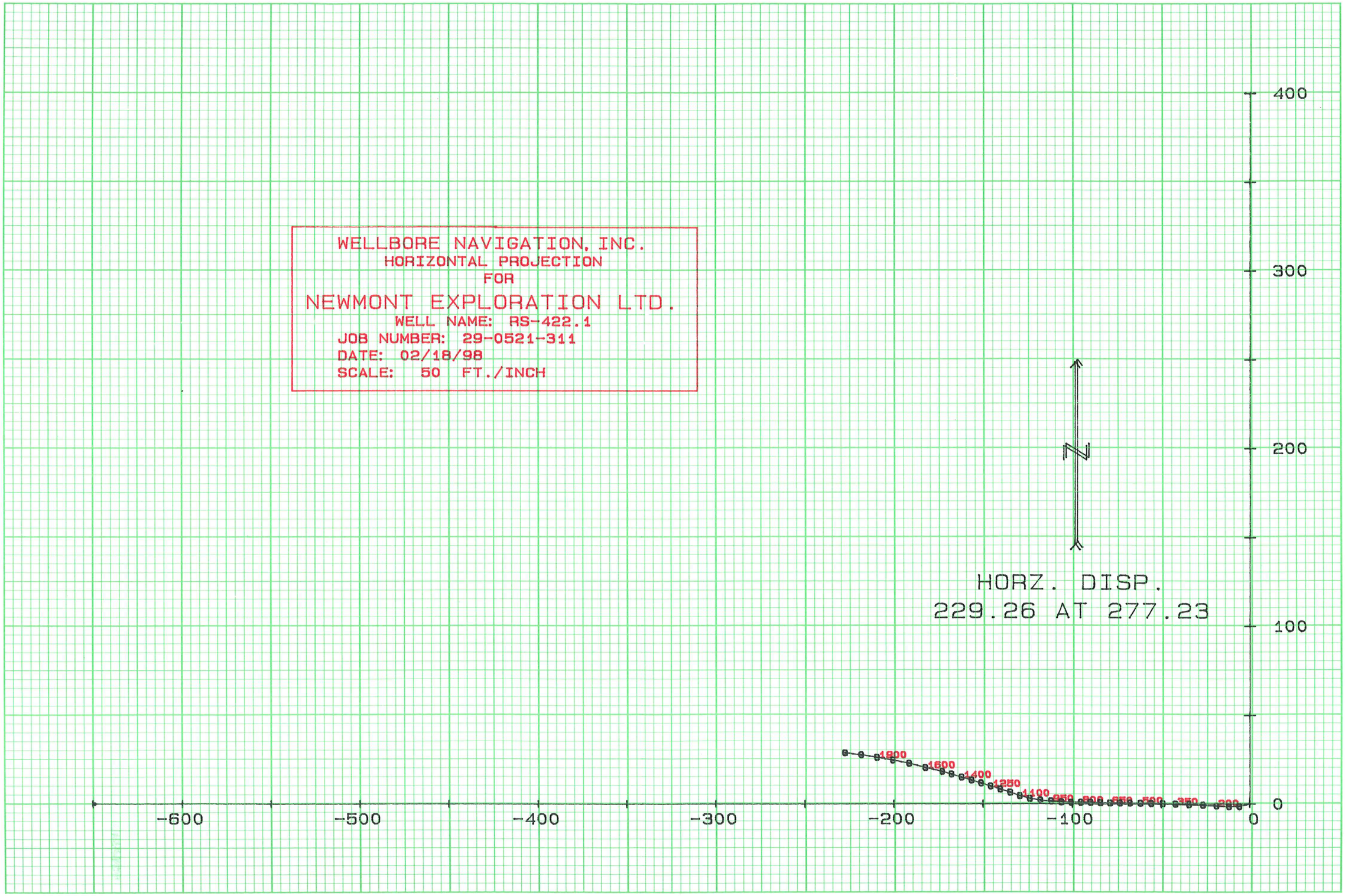
WELLBORE NAVIGATION,INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: RS-422.1 / VS 305.00

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL HORZ	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
1850.0	1837.79	-96.74	-182.517	-84.77	279.89	25.44 N	205.00 W	0.31	0.15	206.57	AT 277.07
1900.0	1887.58	-98.70	-186.603	-84.83	278.86	26.18 N	209.47 W	0.22	0.11	211.10	AT 277.12
1950.0	1937.38	-100.62	-190.662	-84.87	280.64	26.94 N	213.89 W	0.33	0.16	215.58	AT 277.18
2000.0	1987.17	-102.62	-194.750	-84.68	277.25	27.64 N	218.39 W	0.72	0.36	220.13	AT 277.21
2050.0	2036.96	-104.78	-198.845	-84.69	277.08	28.22 N	222.98 W	0.04	0.02	224.76	AT 277.21
2067.0	2053.89	-105.49	-200.227	-84.81	278.34	28.43 N	224.53 W	0.98	0.17	226.32	AT 277.22
2100.0	2086.76	-106.82	-202.851	-84.97	278.03	28.85 N	227.44 W	0.49	0.16	229.26	AT 277.23

```
*************************************************************
*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  2100.0 FEET EQUALS    229.26    FEET AT   277.23         *
*                          ********                         *
*************************************************************
```



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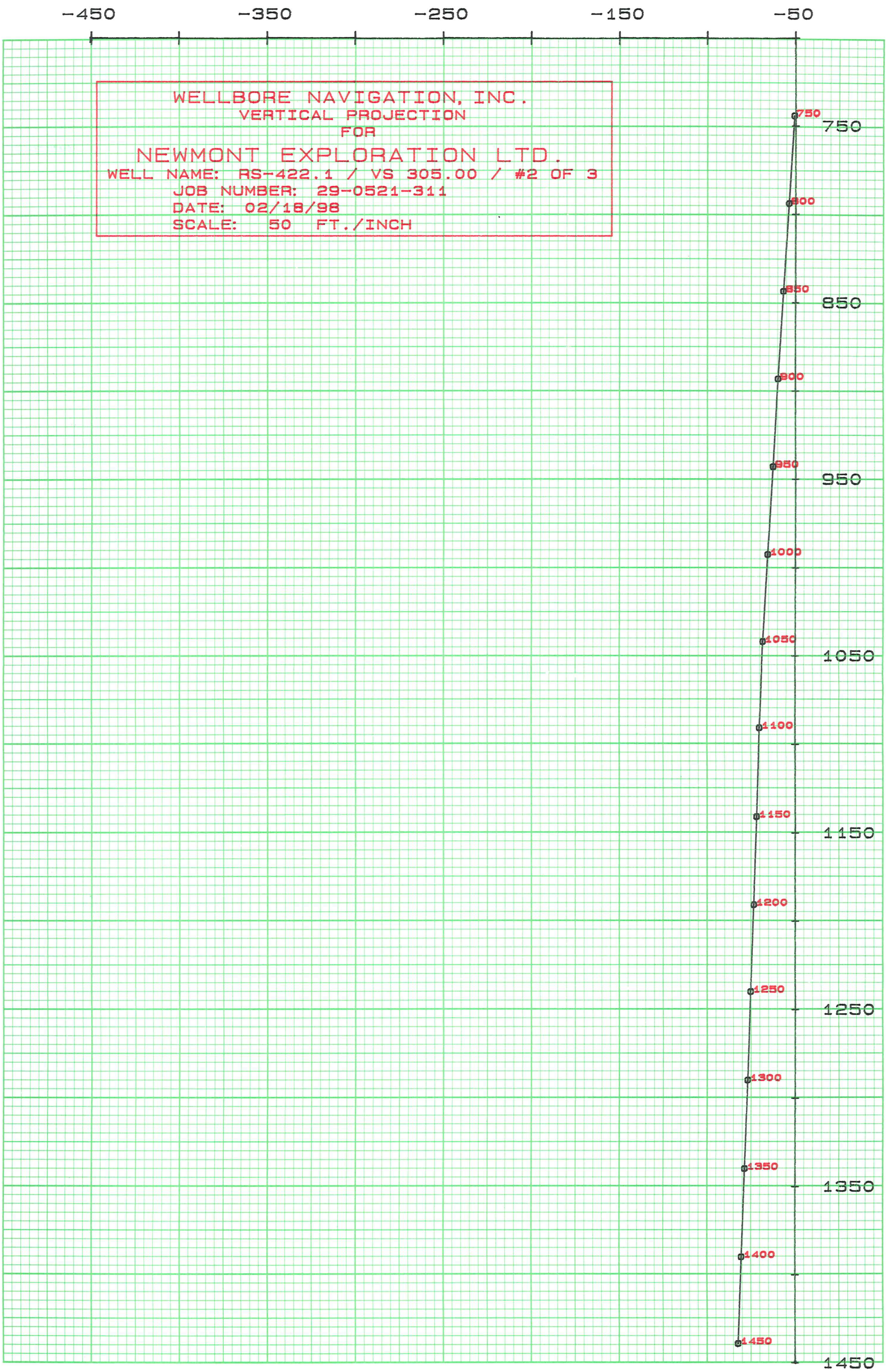
STARLIGHT PRINTING (801) 467-2841

STARLIGHT PRINTING (801) 467-2841



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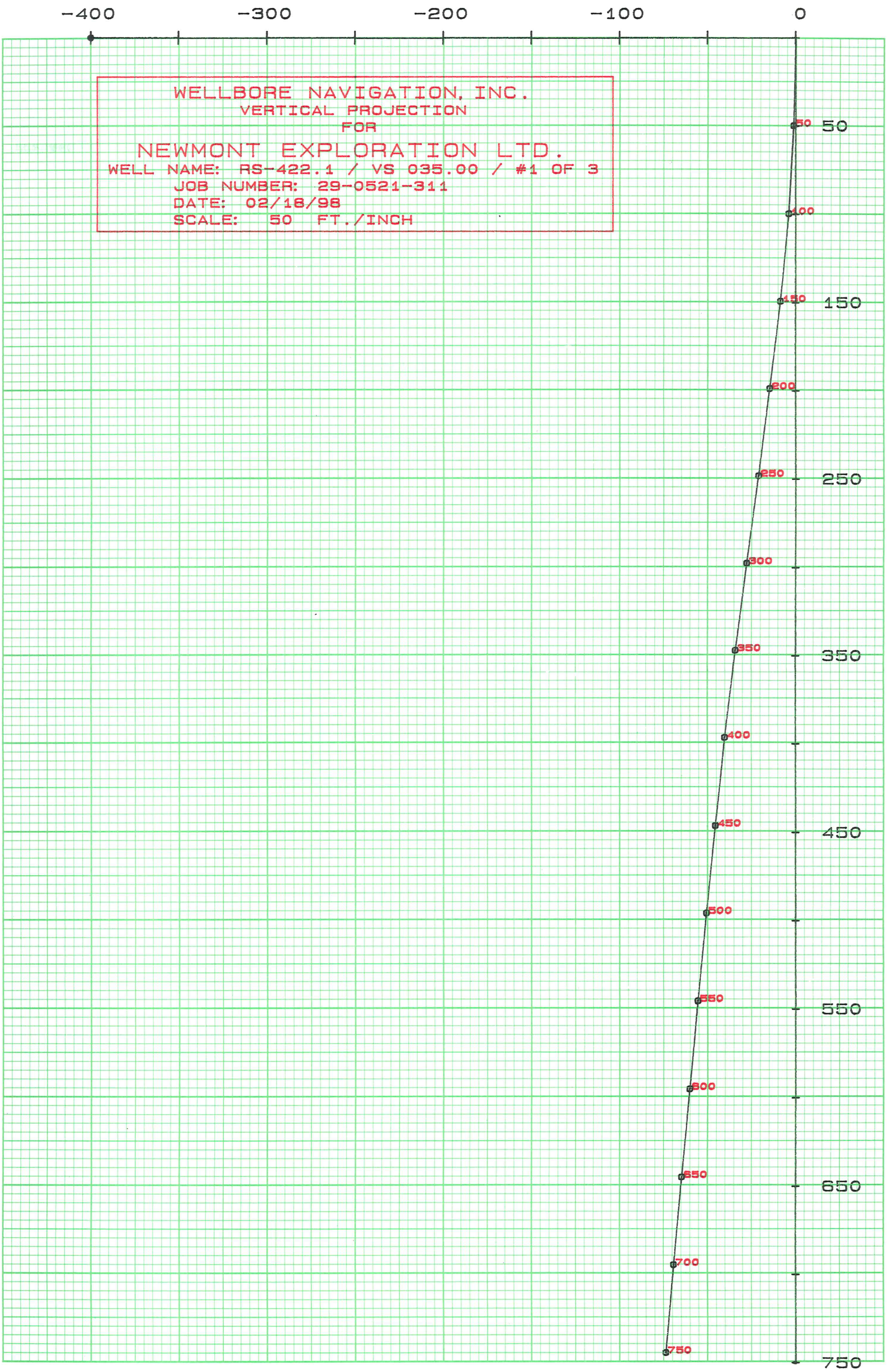

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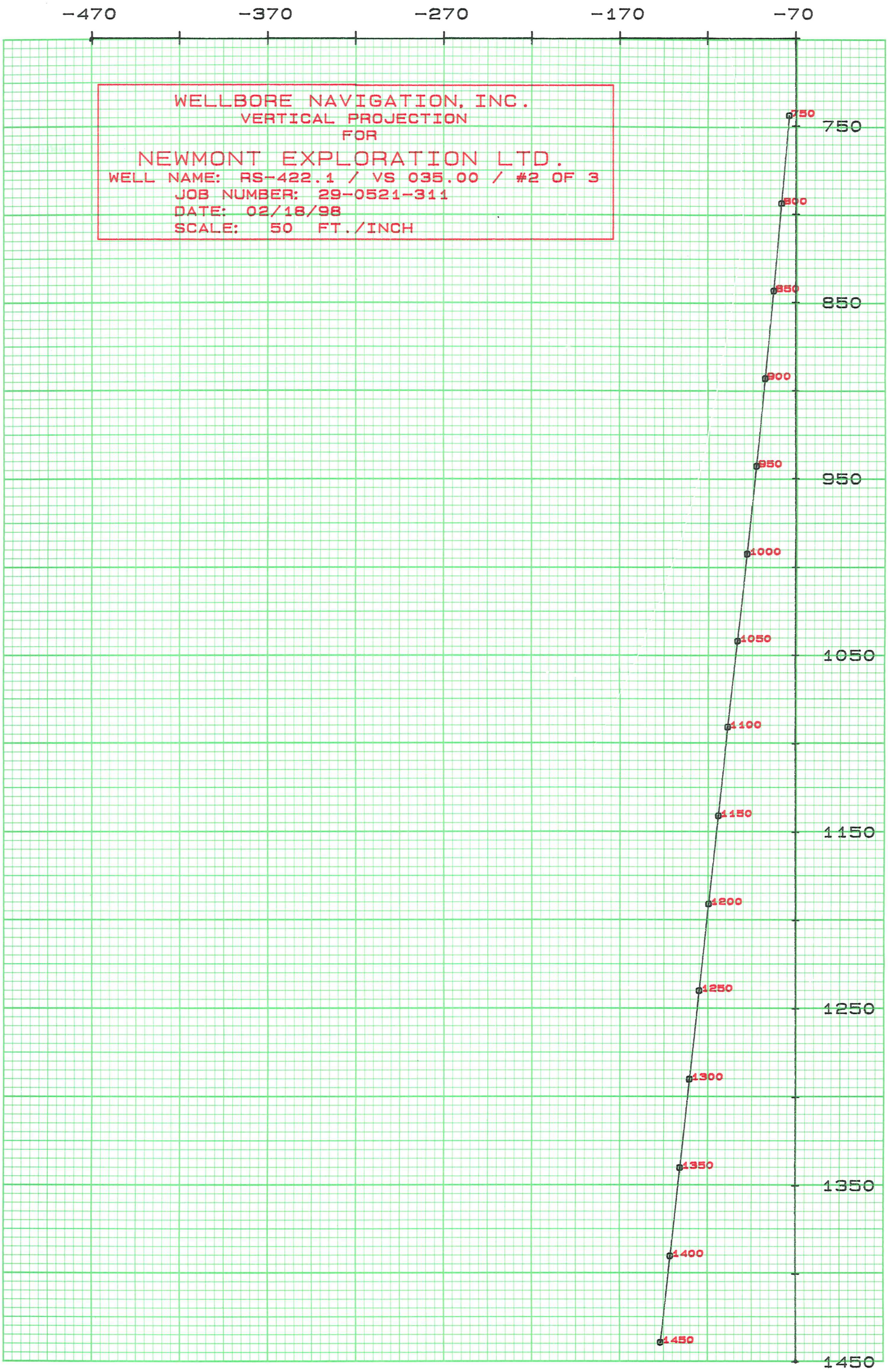
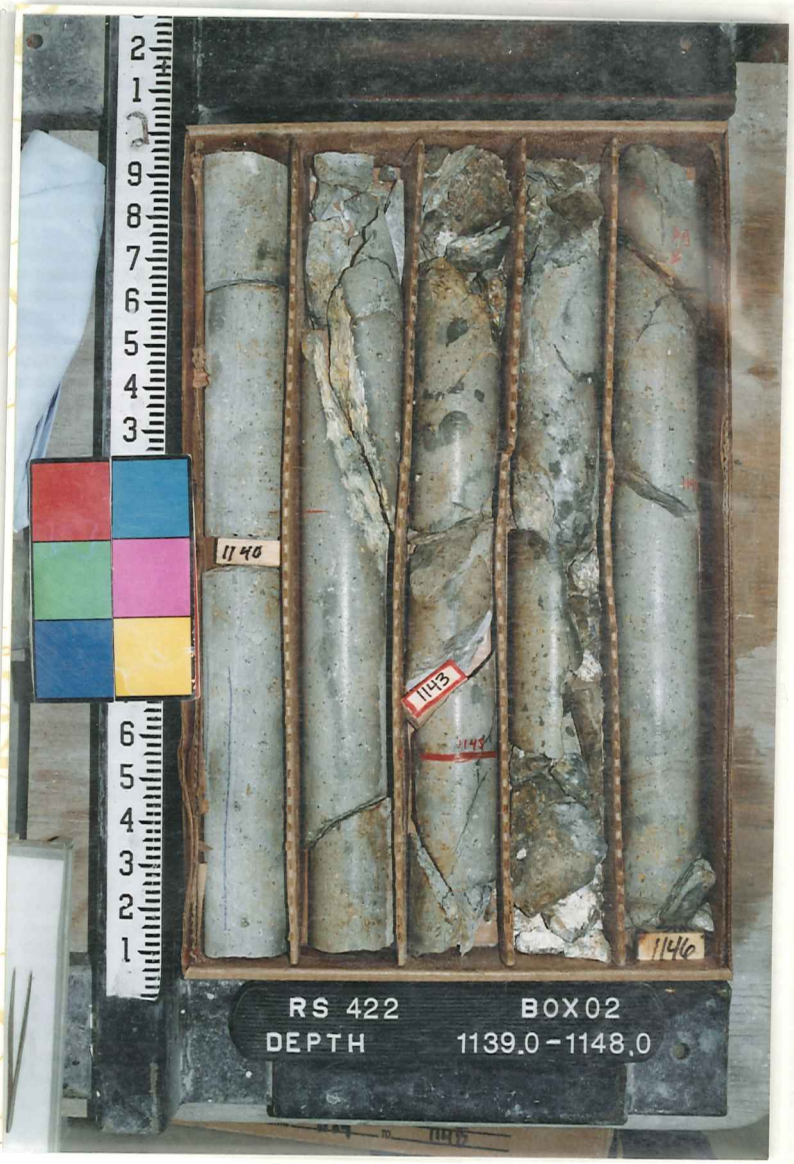


STARLIGHT PRINTING (801) 467-2841

1139.0
1133
1136
1130
RS 422
BOX01
DEPTH
1130.0-1139.0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BOX02
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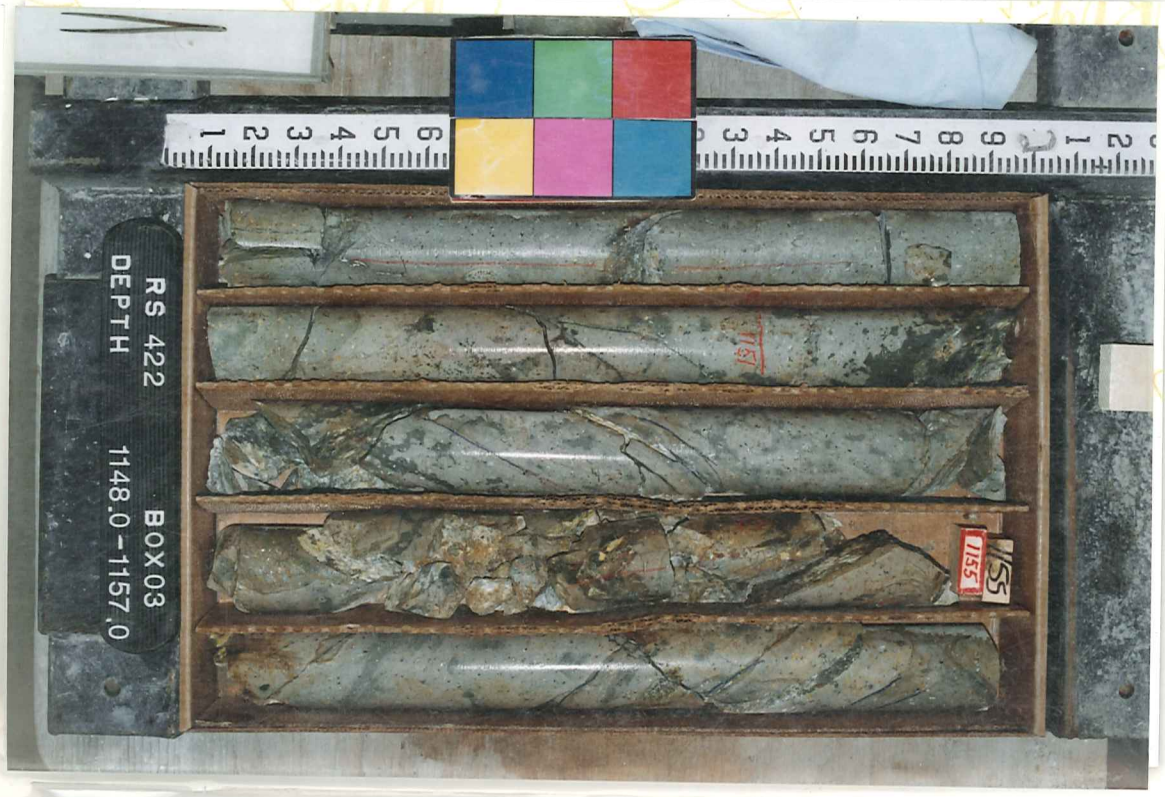
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RS 422
BOX03
DEPTH
1148.0-1157.0

1163
1163
RS 422
BOX04
DEPTH
1157.0-1165.0

1172.5
1171.5
1167
1167
RS 422
BOX05
DEPTH
1165.0-1173.0

1175
1177.5
1180
RS 422
BOX06
DEPTH
1173.0-1182.0

1185
1190
1188
RS 422
BOX07
DEPTH
1182.0-1190.5

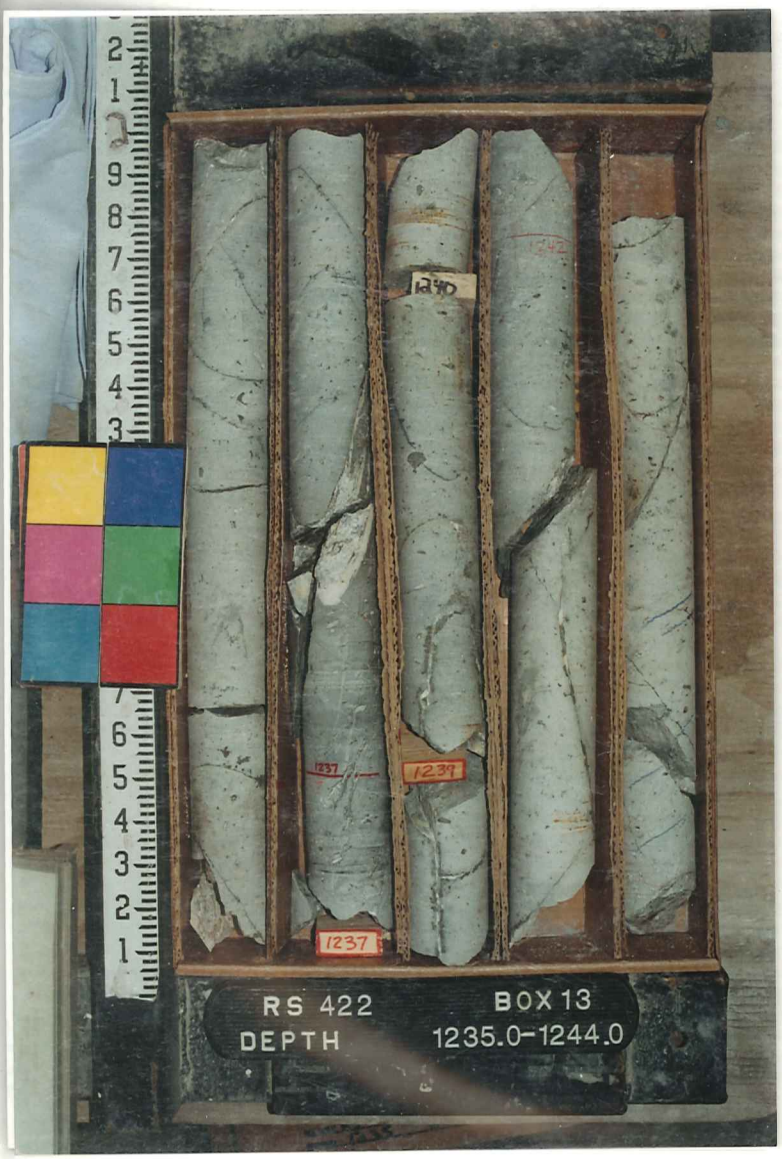
1192
RS 422
BOX08
DEPTH
1190.5-1200.0

1200
1202
1204
1207
RS 422
BOX09
DEPTH
1200.0-1208.0

1214.1
1212
1212
RS 422
DEPTH
BOX 10
1208.0-1217.0

1224
1220
1217.0
RS 422
DEPTH
BOX 11
1217.0-1226.0

1223
1230
1234
RS 422
DEPTH
BOX 12
1226.0-1235.0


RS 422
DEPTH
BOX 13
1235.0-1244.0
1237
1239
1240

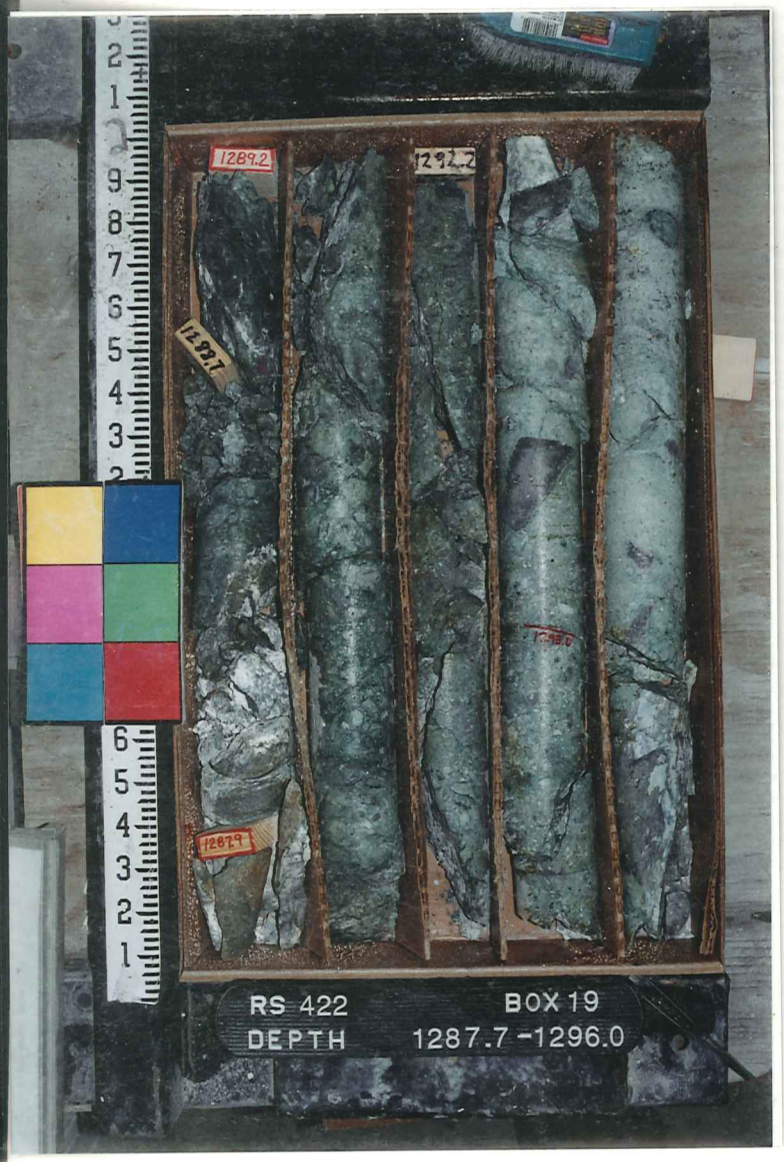
RS 422
DEPTH
BOX 14
1244.0-1253.0
1251
1250
1248
1244

RS 422
DEPTH
BOX 15
1253.0-1262.0
1256
1260
1261

1270
1266
RS 422
DEPTH
BOX 16
1262.0-1270.5

RS 422
DEPTH
BOX 17
1270.5-1279.4

1286
1281
1281
RS 422
DEPTH
BOX 18
1279.4-1287.7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1287.7
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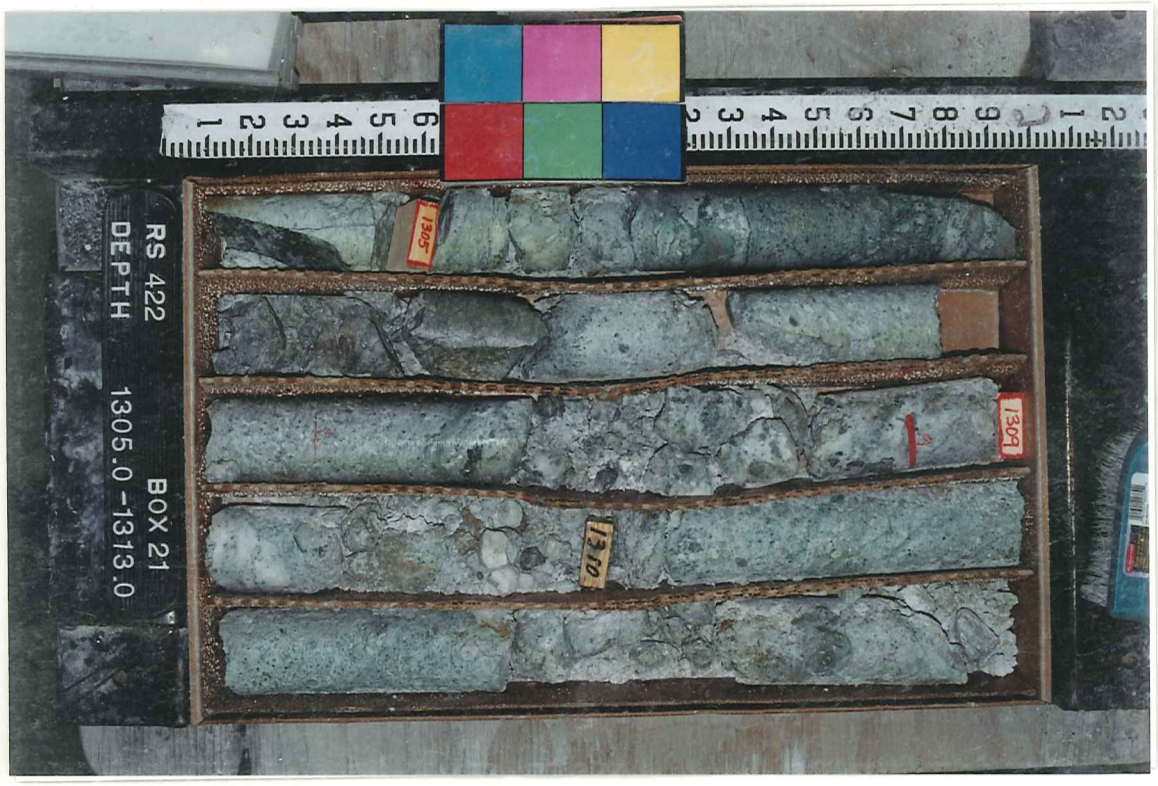
BOX 19
DEPTH
1287.7 -1296.0

1299
1300
RS 422
BOX 20
DEPTH
1296.0 -1305.0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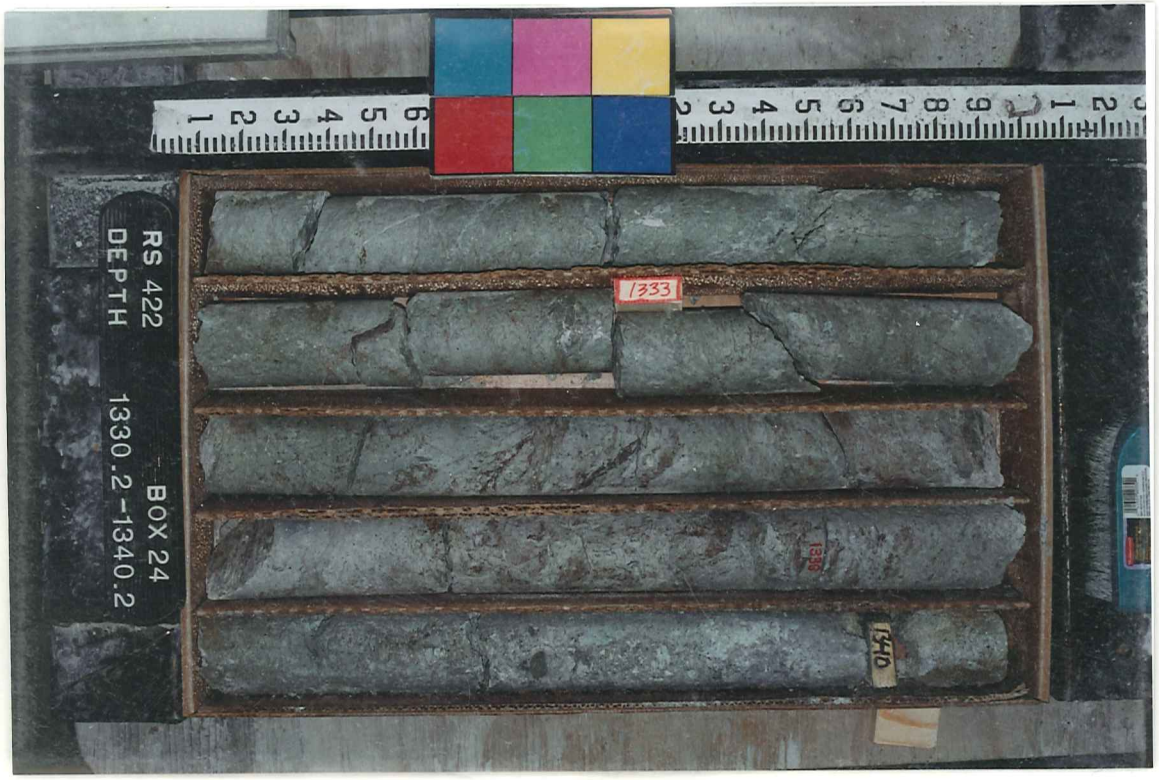
RS 422
BOX 21
DEPTH
1305.0 -1313.0

1320
1318
1313
1313
RS 422
BOX 22
DEPTH
1313 .0 -1322.0

1330
1328
1323
1323
RS 422
BOX 23
DEPTH
1322.0 -1330.2


RS 422
BOX 24
DEPTH
1330.2 -1340.2
1333
1339
1340

1343
RS 422
BOX 25
DEPTH
1340.2 -1349.0

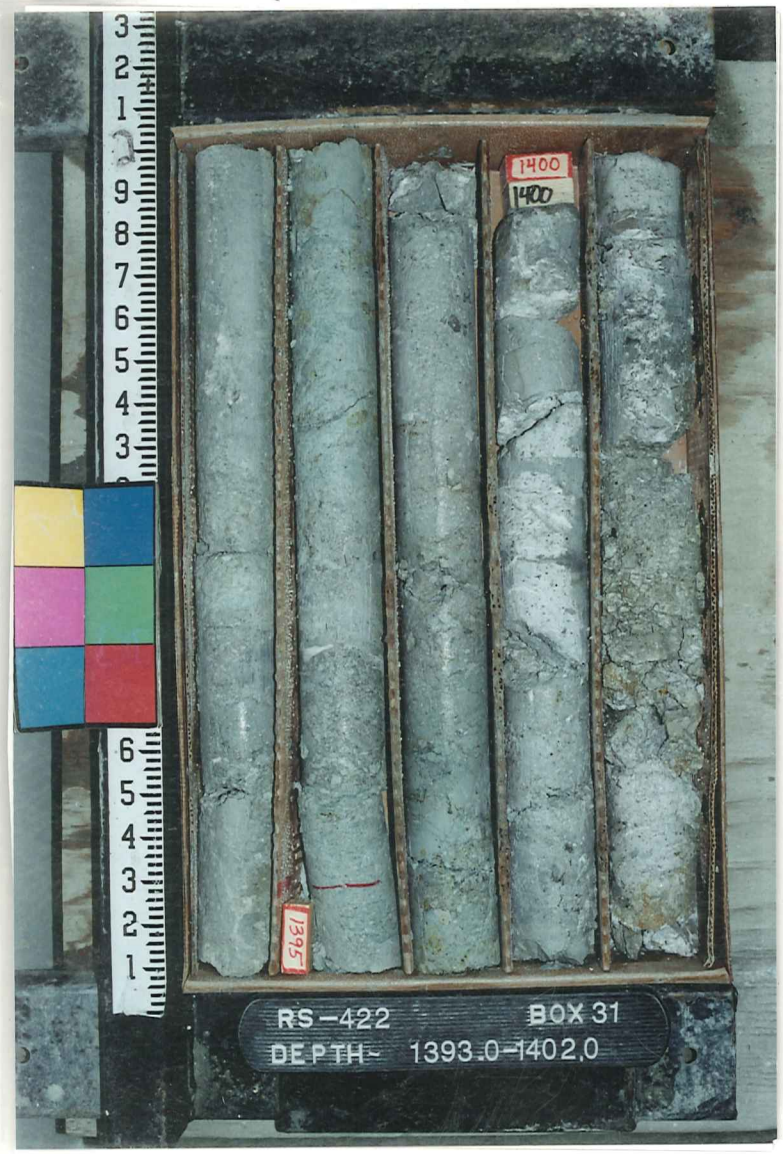
1350
1355
RS 422
BOX 26
DEPTH
1349.0 -1358.0

RS 422
DEPTH
BOX 27
1358.0 -1366.0
1360
1365

1370
RS 422
DEPTH
BOX28
1366.0 -1375.0

1380
1380
1375
RS 422
DEPTH
BOX29
1375.0 -1384.0

1385
1390
RS 422
DEPTH
BOX 30
1384.0 -1393.0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1400
1395
RS-422
BOX 31
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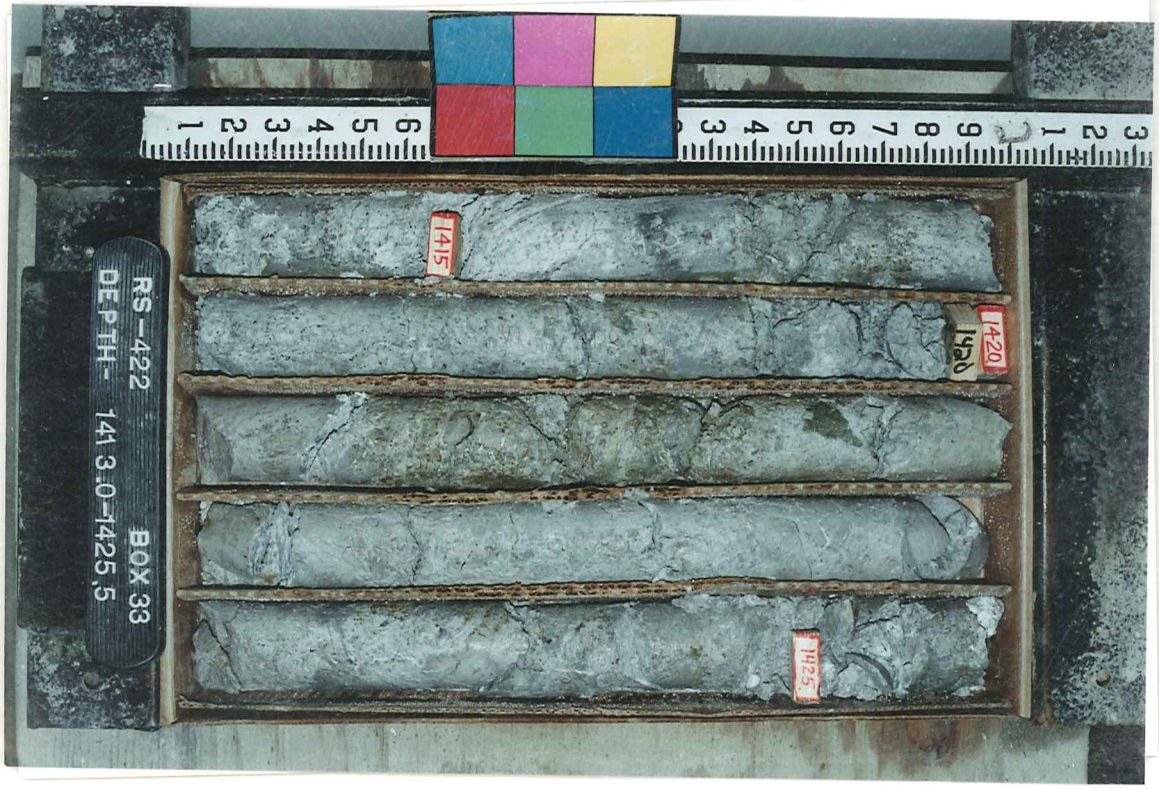
1410
1405
RS-422
BOX 32
DEPTH- 1402.0-1413.0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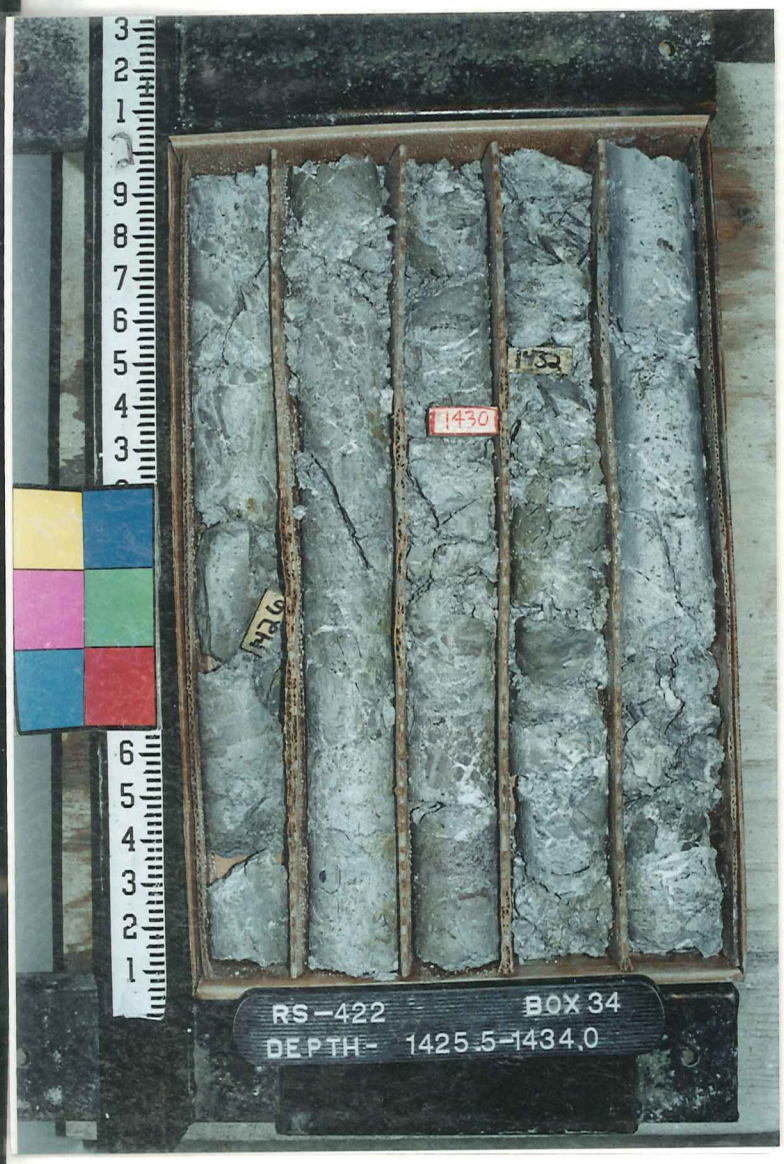
BOX 33
DEPTH- 1413.0-1425.5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RS-422
BOX 34
DEPTH- 1425.5-1434.0

1435
HALT
1440
RS-422
BOX 35
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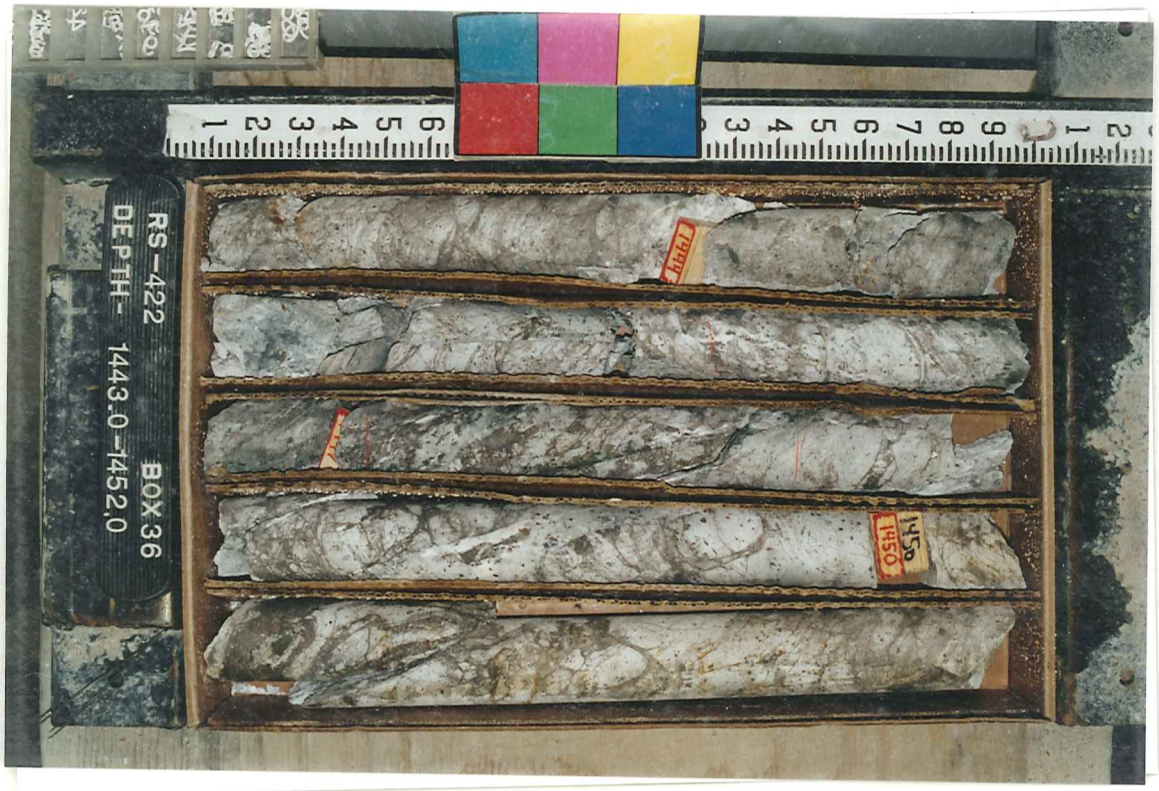
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RS-422
BOX 36
DEPTH- 1443.0-1452.0

1455
1460
1460
RS-422 BOX 37
DEPTH- 1452.0-1461.0

1470
1470
1465
RS-422 BOX 38
DEPTH- 1461.0-1470.0

1475
1477
RS-422 BOX 39
DEPTH- 1470.0-1479.0

1480
1481
1485
RS-422
BOX 40
DEPTH- 1479.0-1487.5

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1490
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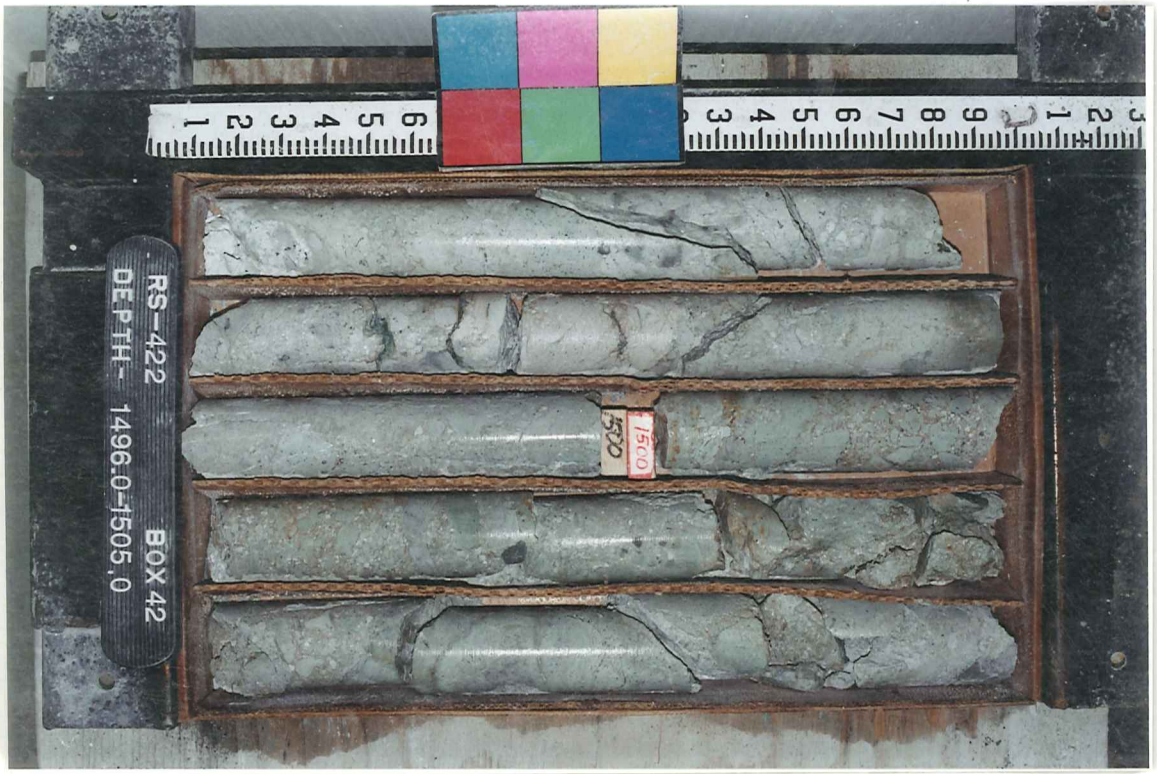
RS-422
BOX 41
DEPTH- 1487.5-1496.0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BOX 42
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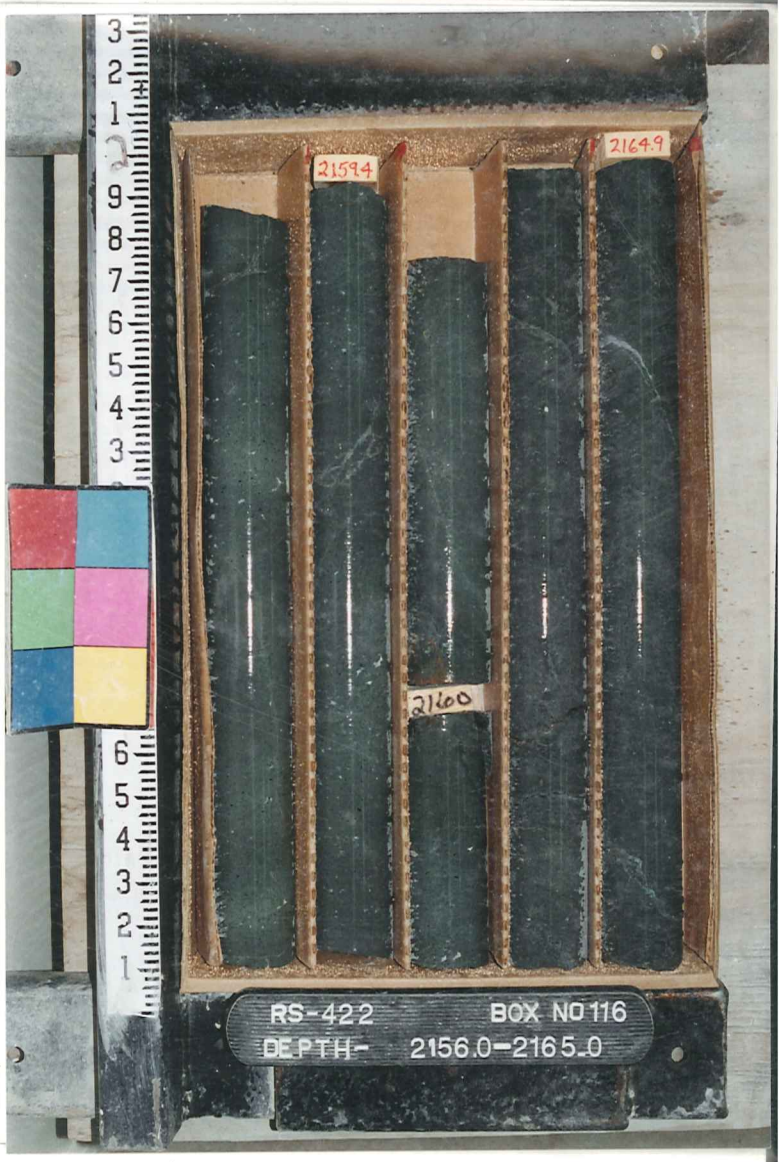
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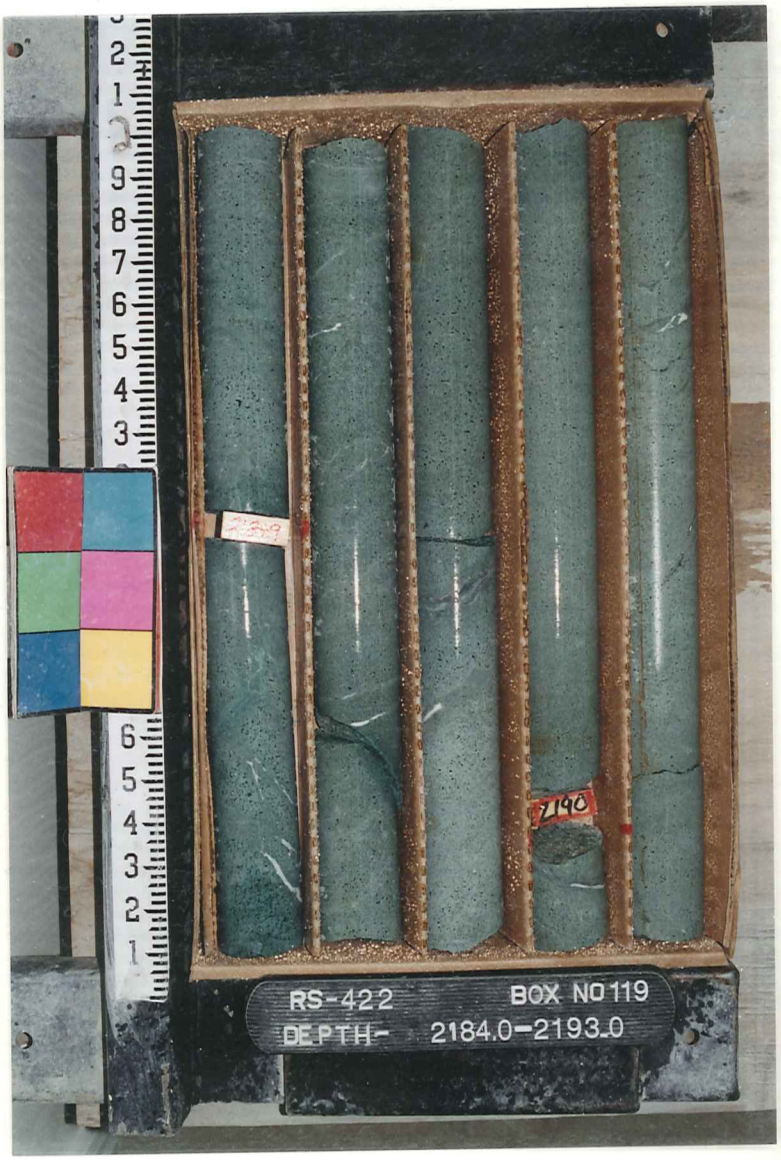
2160
RS-422
BOX NO 116
DEPTH- 2156.0-2165.0

2170
2170.5
RS-422
BOX NO 117
DEPTH- 2165.0-2175.0

2186
2175.6
RS-422
BOX NO 118
DEPTH- 2175.0-2184.0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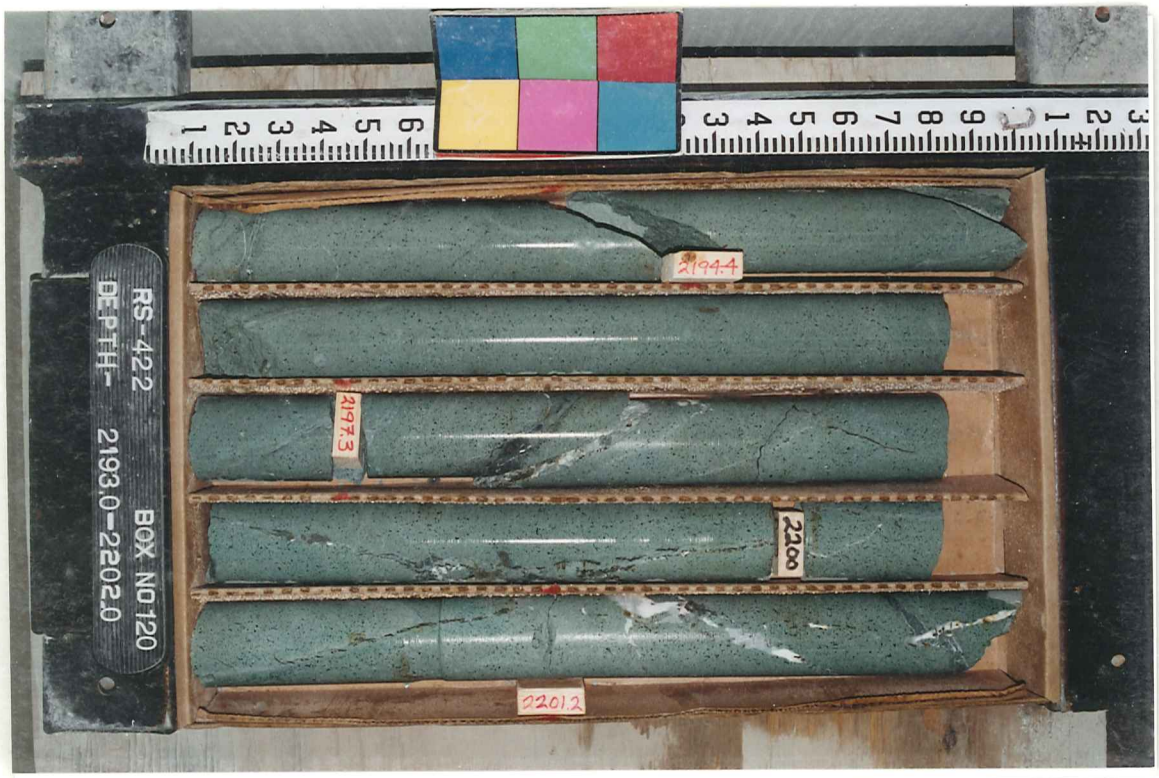
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2197.3
2200
2201.2
RS-422
BOX NO 120
DEPTH- 2193.0-2202.0

2203.0
2207.6
2209.2
2210
RS-422
BOX NO 121
DEPTH- 2202.0-2211.0

2213.3
2217.4
2220
RS-422
BOX NO 122
DEPTH- 2211.0-2221.0

2222.7
2224.7
RS-422
BOX NO 123
DEPTH- 2221.0-2230.0

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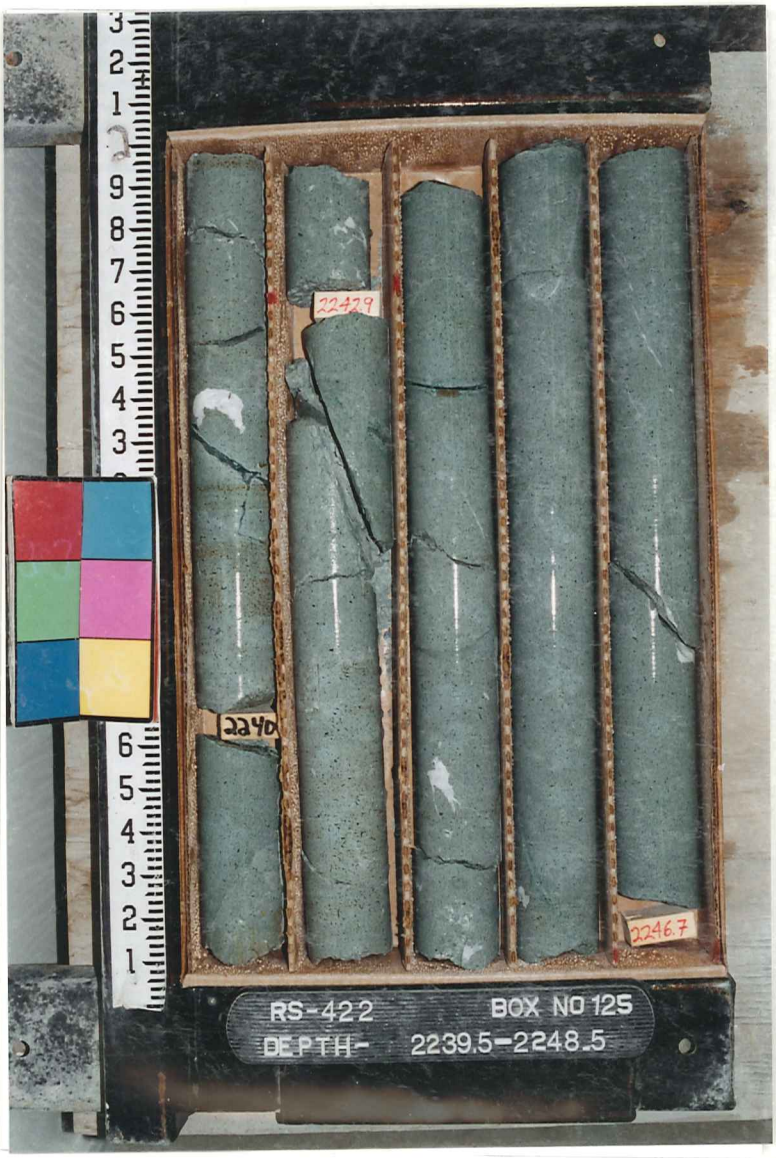
BOX NO 124
DEPTH- 2230.0-2239.5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2246.7
RS-422
BOX NO 125
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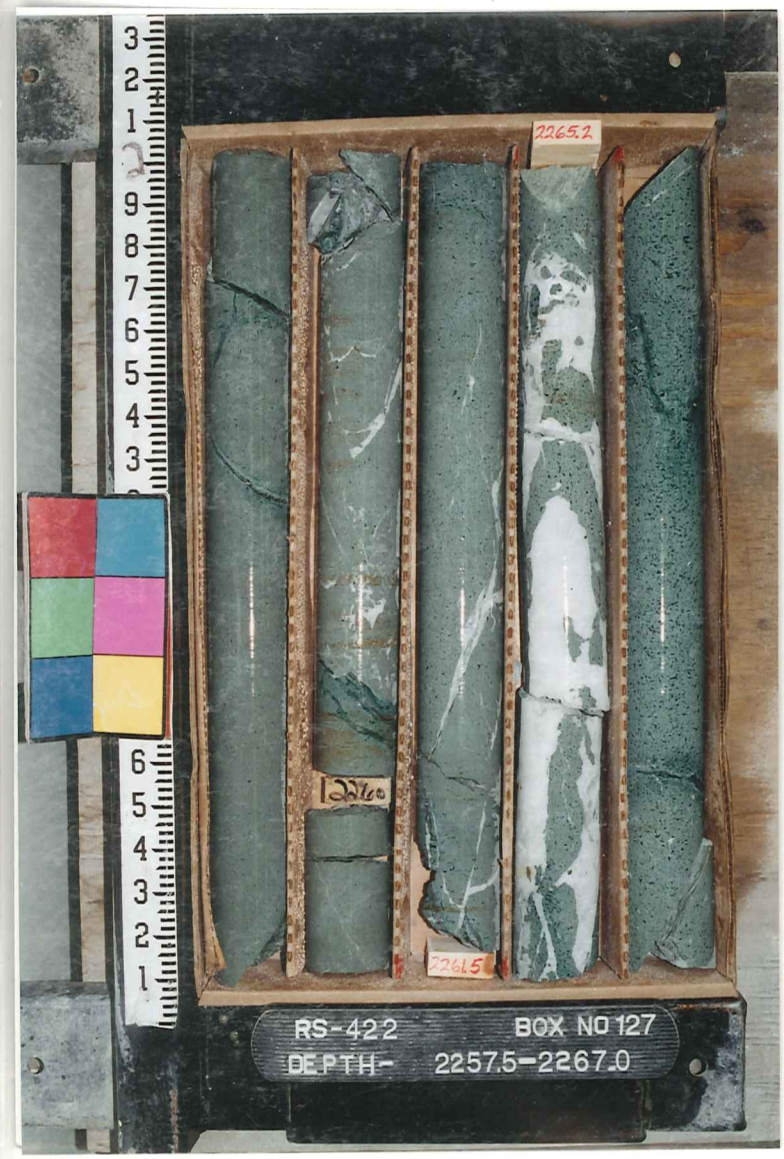
RS-422
BOX NO 126
DEPTH- 2248.5-2257.5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RS-422
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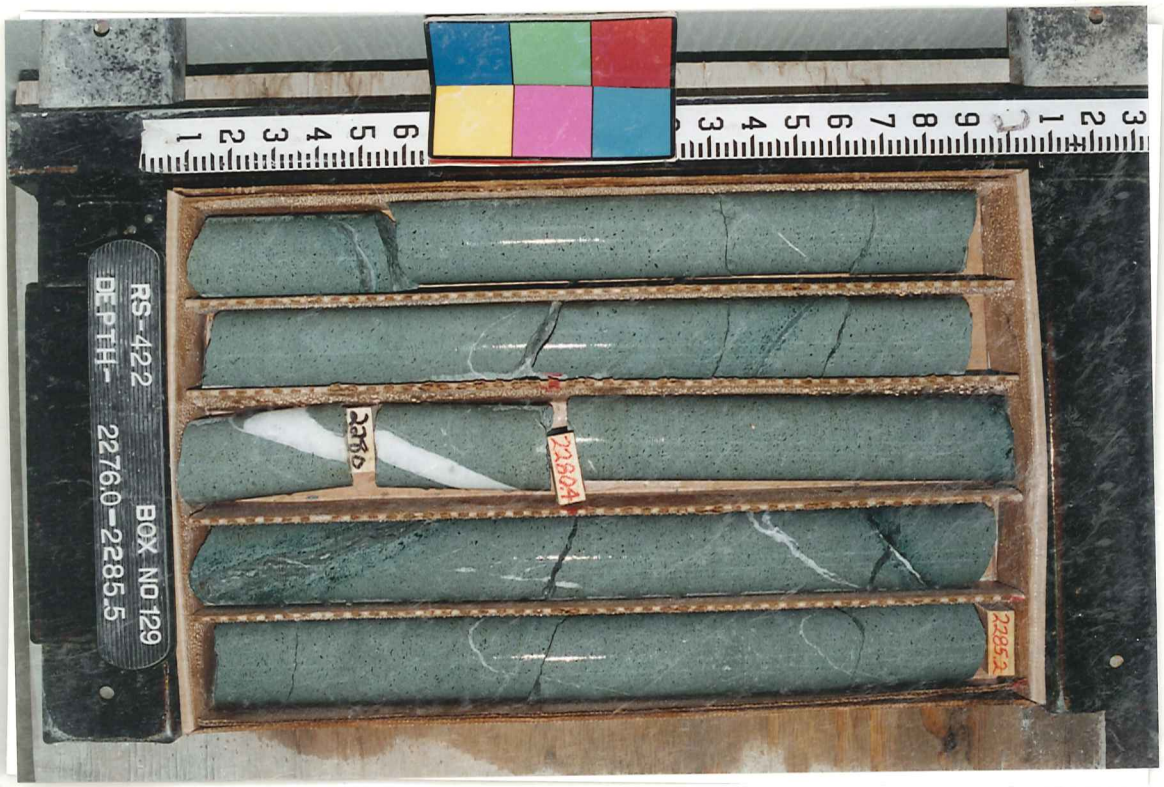
RS-422
BOX NO 128
DEPTH- 2267.0-2276.0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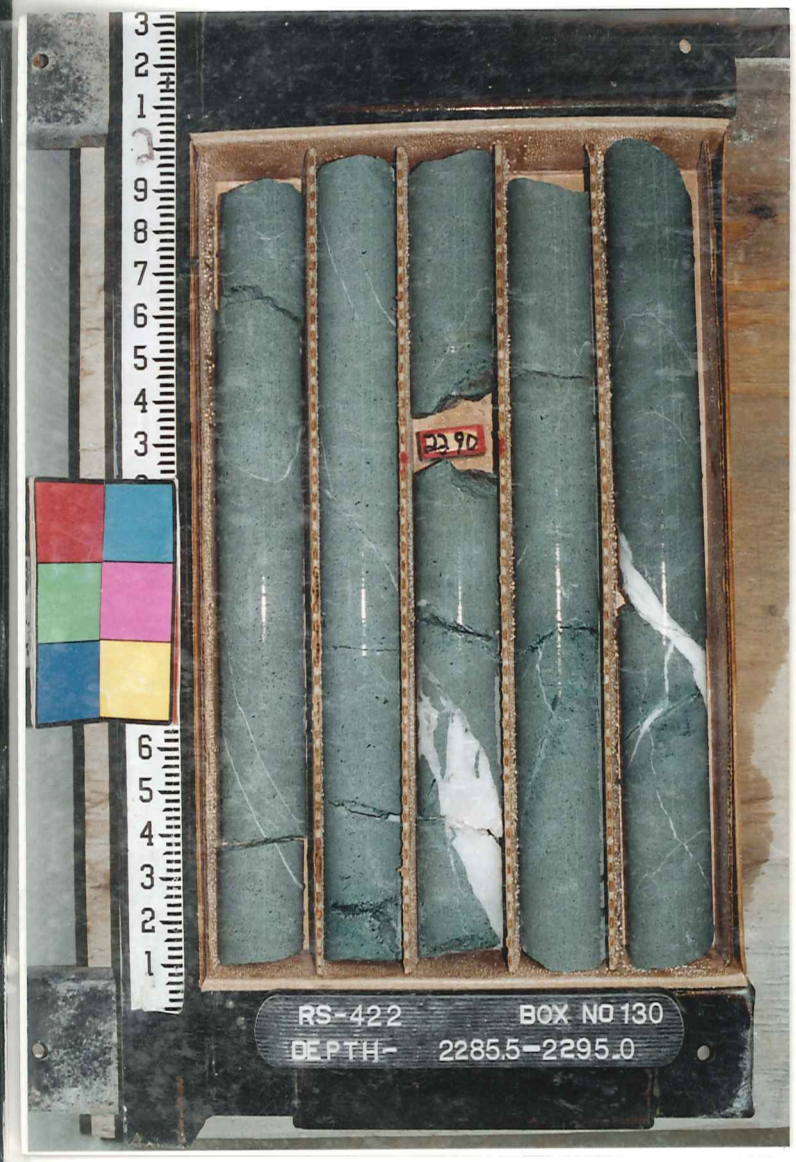
2285.2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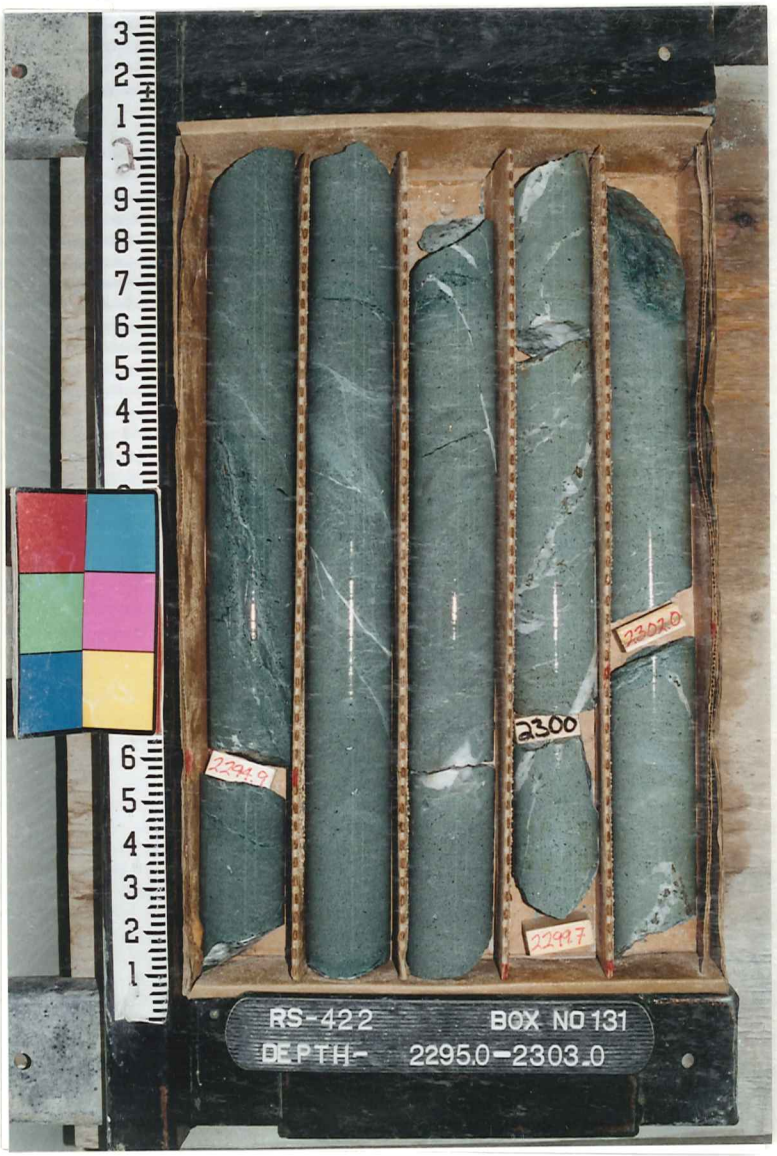
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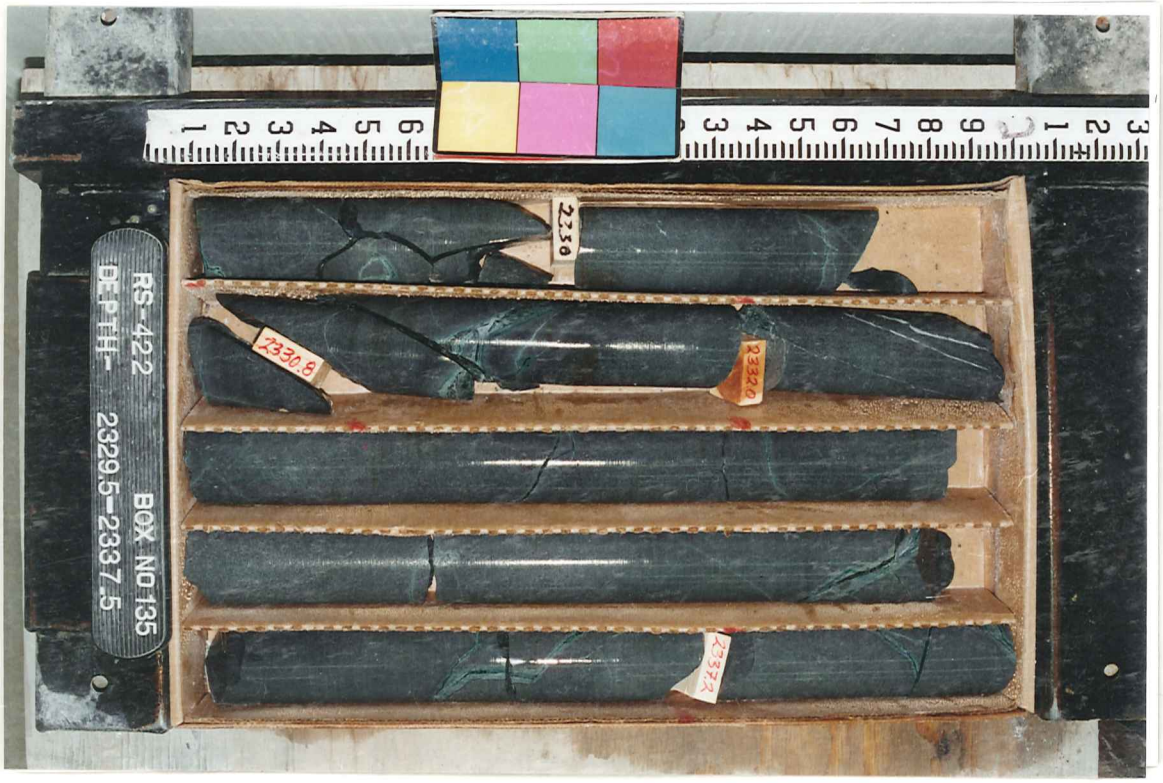
2310
2311
RS-422
BOX NO 132
DEPTH- 2303.0-2311.5

2313.3
2317.4
RS-422
BOX NO 133
DEPTH- 2311.5-2320.8

2321.7
2326.1
RS-422
BOX NO 134
DEPTH- 2320.8-2329.5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RS-422
BOX NO 136
DEPTH- 2337.5-2346.5

2350
2347.0
2354.9
RS-422
BOX NO 137
DEPTH- 2346.5-2356.0

2360
RS-422
BOX NO 138
DEPTH- 2356.0-2365.0

2365.0
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RS-422
BOX NO 139
DEPTH- 2365.0-2374.0

2375.2
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RS-422
BOX NO 140
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