60000 878

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. 97-398
AUTHOR	B. Kastelic; R. Lisle; S. King; C. Ballew; R. Vance; K. Allen; J. Welch; K. Child; V. Reid; B. Longyear; D. Keyser; B. Kurpis
DATE OF DOC(S)	1997
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Newmont Gold Co; Santa Fe Pacific Gold Corp.; Hecla-Rosebud Mine Newmont Exploration Ltd
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; geochemistry; total depth 1465' receipt; handwritten notes; drill hole summary directional survey; photographs 125 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: DP 5/5/08
Initials Date

DB:
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

97-398

60000878
4010

6000 0878

SANTA FE PACIFIC GOLD — DRILL HOLE SUMMARY

Project: Rosebud Location: Dozer Northwest Drill Hole No.: 97 - 398

State: NV Co.: Pershing T.: R.: S.:

Purpose: offset intercept in 96-356 Results: Co grade in target zone.

Date Started: 6/18/97 Rc 7/16/97 Core Date Finished: 6/25/97 Rc 7/23/97 Core

Grid System: State Northing: 2,204,780 Easting: 481,387 Elevation: 5244

Collar Az/Inc.: — / -90 Drill Site: Total Depth: 1465

Geologist(s): RDK Log Date(s): 7/26, 8/9/97 Laboratory: R.B. minesite

HOLE CONSTRUCTION AND HISTORY

CASING (INTERVAL): 0-1100

From	To	Hole Type/Size	Started	Completed	Contractor
0	1100	Rc / 5 3/4	6/18/97	6/25/97	Eklund - Welch
1100	1465	Core / HQ	7/16/97	7/23/97	Longyear - Keyser
		/			
		/			

LITHOLOGIC SUMMARY

From	To	Formation	Rock Type
0	420	choc(?)	Latite
420	715	"	Lith. Tuff
715	930	"	Latite
930	1418	DOZER	Rhyolite

ALTERATION/ MINERALIZATION

SIGNIFICANT ASSAYS

From	To	Width	Au oz/st	Cutoff
40	120	>100ppb Au up to 1000.		
140.	300	several anom zones		
1270	1445	anom. Au + trace elements		

Two distinct mineralized zones
Lower zone enriched Cu, Zn
Upper zone enriched Hg

DOWNHOLE SURVEYS

Directional Date:

Other

Depth (ft)	Azimuth	Inclination
	see Wetman Report	

Water Table Depth:

Water Flow Rate:

COMMENTS

Significant alteration, continues pattern in this area of a near surface mineral zone to one near JTRa contact/SRF.

Drilled 100' SW of intercept in -356.

Poject: ROSEBUD	State: Nevada	Northing: 2,204,785	Total Depth: 1100	Hole No. 97-398
Log'd by: RLK 7/25/97	County: Pershing	Easting: 481,390	Bearing: —	
UTM# NK 11-10-06	Sec. T. N, R.	Elevation: 5245	Inclination: -90	Page 1 of 7

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA flow	AUTOBXA	INTUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	chalcedony					FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
																																			Pilot Hole	
	Dk rd brn																																3		Gravel	
																																	3			
	Yell tan Gy																										2				4	3			Clay, sandstone + chalced.	
20																											2				4					20
																											2				4					
																											1				1	4			Gray silica + soft translu. chips, massive	
																											1				2	3			QZ sandst., soft clayey matrix	
40																											2		5		4				Weath. volc., QZ + clay. Silic. brx	40
	Red to yell tan																									2	3				3					
	or. Yell.																										4	1			3					
																											3				—	5			- mostly silica	
60																											3		5		1	4			— granular QZ	60
																											4				5	3			Clay w/ chips + chalced.	
	Pale Grn																											3			5	3			clay w/ arg. volc. chips, Py chips	
																												4			4	3			arg. volc. rk, prob latite (was)	
80																												4			3	2			- silic brx	80
																												4			4	4				
																												3			5	3				
																												3			5	2				
100																												4			5	1				100
	Lt Gy																											4			5			2	clay w/ py + arg. latite chips	
																												4			5					
																												2			1				bleach'd latite - chip py	
120																												2			3	3			- Silic matrix brx	120
																												2			2				- Smbx chips	
																												1								
																												2								
140																												2								140
																												2			2					
																												2			3					
																												2			3			1	Pyvalts + dissem	
160	Lt Pink Gy																											2			3					160
	Pale rn gy																											2			2	1				
																												2			2	2				
	+ Lt Pink																											2			3	3		2	Smbx	
180																												2			3	2		2		180

Assorm Au

1ppm

Rclog02.xls

Poject: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-398
Log'd by: RJK 7/26/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R.	Elevation:	Inclination:	Page 2 of 7

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA flow	AUTOBXA	INTUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Pale grn + Pink													/									2	5		3	2		2		Totally bleached rk, massive	
														/									3			3	2		2			
														/									3			2	2		2			
200														/									2			2	2		2			200
	Pale Grn													/									1			2	2		3			
														/																		
														/																		
														/																		
220														/																		220
														/																	- siliceous brx	
														/													3					
240														/						2			3								- bleached sulf. marc?	240
														/						1			2									
														/						2			3			4	1					
														/									2			4	2					
260	Pink Gry													/									2			3	3					260
														/									2			3	3					
														/						2			3			3	3				- marc.	
														/									3			2	3		1			
280														/									2			2	3					280
														/									2			1	2				Crackle brx	
														/							2		2			2	2					
														/							2		1			3	2					
300	Pink Tan													/							2		1			1	2				hem matrix brx	300
														/							2		1			1	2		2			
	Pale Grn													/									1			1	1					
														/									1	4		1	1					
320														/									1			1	1					320
														/									1								- poss. f.g. leucoxene	
														/									1									
														/									1	5								
340														/									1	4								340
														/									1	4								
	-darker													/									1	3								
	Mid Grn													/									-	2		2	-					
360	Green													/									-	2		2	-				- brx, flow origin?	360

Rclog02.xls

Poject: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-398
Log'd by: RAK 7/26/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R.	Elevation:	Inclination:	Page 3 of 7

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA flow	AUTOBXA	INTUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Dk Grn Gy													/							1			1					2		Leucocene-bear. aphanitic volc. rk	
380														/																		380
400														/																		400
	Pale Grn													/									2	4		3					white qvs. chips - Contam?	
	Dk Grn Gy													/																		
420														/																		420
	Dk rd brn							/																							massive f.g. brn volc. w/ Lithic Tuff brx med-coarse gr.	
								/															2									
440								/																								440
								/																					1			
460	Green							/																1							Lithic Tuff brx. clasts sometimes lighter color than matrix.	460
480								/																								480
								/																2								
500								/																							- flow banded clast	500
520								/																								520
540								/																								540

Poject: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-398
Log'd by: RPK 7/26/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R.	Elevation:	Inclination:	Page 4 of 7

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA flow	AUTOBXA	INTUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE	FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Green							//																2					1		Lithic tuff as above	
								/																					1			
	Grn Gy							/															1									
560								/																								560
								/																								
								/																								
								/																								
580								/																								580
								/																								
								/																								
								/																								
600								/																								600
								/																							Clasts of blk Shale	
								/																								
								/																								
620								/																								620
								/																	2							
								/																	2							
								/																								
640								/																								640
								/																								
								/																								
	Pale grn Gy							/																3								
660								/																4								660
								/																4								
								/																4					2			
	Grn Gy							/																1							Lots of blk Shale clasts	
680								/																1								680
	Lt Grn							/																3								
								/																3								
								/																3								
700								/																3								700
								//																								
								//																								
								//															1									
720								//						///																	F.G. Blck specks in rk	720

Rclog02.xls

Poject: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-398
Log'd by: RJL 7/25/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R.	Elevation:	Inclination:	Page 5 of 7

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA flow	AUTOBXA	INTUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE					STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Lt Grn																											3					1		massive f.g. RL w/tiny black diss. specks	
740																																				740
760																																				760
780	Med Gray																											2								780
800																																				800
820																																				820
840	+ rd brn ↓																							1 2												840
860	Pinkish White																											↓ 3 5							Totally Bleached out rock. mafics gone	860
880																																				880
900																																				900

Poject: ROSEBUD	State: Nevada	Northing:	Total Depth:	Hole No. 97-398
Log'd by: RAK 7/26/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R.	Elevation:	Inclination:	Page 6 of 7

DRILLING NOTES

DEPTH	COLOR	ALLUVIUM	SURG TUFF	ASH FLOW	LAVA flow	AUTOBXA	INTUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE					FAULT BXA	GOUGE	GRAPHIC	OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
920	Pale Pink																											5					1		Bleached out aphanitic volc. rk	920
940																																			DOZER(?) - some Qz grains barely visible	940
960	DK Red																								2			4							Some mafics visible	960
																									3			3								
980	+Grn Gy																?								1											980
																									2											
1000																									3											1000
																									2											
1020	Pale Grn																								2			2							F. G. volc. w/ poss. interstitial Qtz would make this DOZER Rhy.	1020
1040																																				1040
1060																																				1060
1080																																				1080

Poject: ROSEBUD	State: Nevada	Northing:	Total Depth: 1100	Hole No. 97-398
Log'd by: RJK 7/26/97	County: Pershing	Easting:	Bearing:	
UTM# NK 11-10-06	Sec. T. N, R.	Elevation:	Inclination:	Page 7 of 7

DRILLING NOTES

DEPTH	COLOR	LITHOLOGY: ALLUVIUM	SURG TUFF	ASH FLOW	LAVA flow	AUTOBXA	INTUSIVE	LITH TUFF	SANDSTONE	PHYLLITE	SHALE	BASALT	ANDESITE	LATITE	DACITE	RHYOLITE					STRUCT: FAULT BXA	GOUGE	GRAPHIC	ALTERATION & MIINERALIZATION: OTHR SULF	HEMATITE	LIMONITE	PYRITE	BLEACHED	PROPYL	ARGIL	REPL SIL	VEIN QTZ	CALCITE	GRAPHIC	DESCRIPTION	DEPTH
	Pale Grn																											2					1		Lith. as above. Qz barely visible.	
1100	↓																										1	↓					↓		↓	1100
1120																																			T.D. = 1100'	
1140																																				
11																																				

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING: 2,204,785	TOTAL DEPTH: 1465	STARTED: 7/16/97	PAGE: 1/8
LOGD BY: RAK	STATE: Nevada County Pershing	EASTING: 481,390	BEARING: —	COMPLETED: 7/23/97	HOLE #
DATE: 7/28/97	SEC. T. N., E.	ELEVATION: 5,245	ANGLE: -90	DRILLER: Longyear - Keyser, Kurpis	97-398c

SCALE: 1" = 10 ft

LITH. EXPLANATION:

MUD CGL	Mud matrix conglomerate
LITH TUF	Lithic clast dominant tuff
PUM TUF	Pumice rich tuff
SURGE TUF	Bedded matrix rich lithic tuff

RC Pre Collar to 1100 ft

DEPTH FT	DRILLING REC CUT	DRILLING REC CUT	DRILLING Q D	LITHOLOGY (ALLUVIUM, MUD, CG, LITHTUF, PUMTUF, SURGTUF, ASH, LAVA, LAUTO, INTRUSIV, BASALT, ANDESITE, RHYOLITE)	STRUCT (TEC, BRECCA, GOUGE, VOID)	ALTERATION/MINERALIZATION (Fe MIN: MNOX, HEMTIT, LIMONIT, PYRITE; PROP, ARG, ARG2, ARPL, SIL, QTZVNS, CALCITE, METCALAS)	STRAT (BADGER, CHOCOLT, BUD, BRADY, MKRPOR, LBUD, WILDROS, DOZER)	DEPTH FT	LITH GRAPH	ALT GRAPH	STRUCT	COMMENTS	SAMPLE INT	BOX
	2.7/2.7	2.4/2.7				1					△	1100-1228 RHYOLITE		1
1105	9.8/10.2	9.8/10.2						1105			△	Pale Green. Crackled, matrix is	1105	
											△	Pink, siliceous, hard. Clast-Supported.		
1110								1110			△	Brx texture faint, diffuse, but pervasive	1110	
												autobreccia (?) TS 1109		2
1115								1115			△	f.G. Qz visible under scope	1115	
	10.1/10.3	10.1/10.3									△	½ cm clots of micro brx. ltgrn clasts		
1120								1120				in dk grn matrix	1120	
												tiny calcite veinlts throughout		3
1125								1125			△		1125	
	10.4/10	10.4/10												
1130								1130			▽		1130	4
											△			
1135								1135					1135	
	10.1/10.3	10.1/10.3									▷			
1140								1140			△		1140	5
											▽			
1145								1145				-Bdg 60 TCA-flowbanding TS 1145	1145	
	10.4/10	10.4/10									◁			
1150								1150			△		1150	

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH:	STARTED:	PAGE: 2/8
LOGD BY: RDK	STATE: Nevada County Pershing	EASTING:	BEARING:	COMPLETED:	HOLE # 97-398c
DATE: 7/28/97	SEC. T. N., E.	ELEVATION:	ANGLE:	DRILLER:	

SCALE: 1" = 10 ft

LITH. EXPLANATION:

MUD CGL	Mud matrix conglomerate
LITH TUF	Lithic clast dominant tuff
PUM TUF	Pumice rich tuff
SURGE TUF	Bedded matrix rich lithic tuff

DEPTH FT	RECOVERY	RQD	ALUVUM	MUDCGL	LITHTUF	PUMTUF	SURGTUF	ASHFLO	ALAVA	AUTOBXA	INTRUSIV	BASALT	ANDESITE	RHYOLITE	TECBXA	BROKEN	GOUGE	VOID	Fe MIN: MNOX	HEMTIT	LIMONIT	PYRITE	PROP	ARG	ARG2	RPLSIL	QTZVNS	CALCITE	METCLAS	BADGER	CHOCOLT	BUD	BRADY	MKPOR	LBUD	WILDROS	DOZER	DEPTH FT	LITHGRAPH	ALTGRAPH	STRUCT	SAMPLE INT	BOX
																												1															6
1155																																						1155				1155	
1160	10.3 / 10.3	9.4 / 10.3																																				1160				1160	7
1165																																						1165			← 1" clot of fine disem py in center of 2" wide breccia clast	1165	
1170	10.3 / 10.2	10.3 / 10.2																																				1170				1170	8
1175																																						1175				1175	
1180	10.2 / 10.2	9.0 / 10.2																																				1180				1180	9
1185																																						1185				1185	
1190	10.3 / 10.3	8.6 / 10.3																																				1190				1190	10
1195																																						1195			– Flowbanding visible, Less Bxa 40° TCA	1194.5	
1200	10.0 / 10.0	9.4 / 10.0																																				1200				1200	11

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH:	STARTED:	PAGE: 3/8
LOGD BY: RDK	STATE: Nevada County Pershing	EASTING:	BEARING:	COMPLETED:	HOLE # 97-398
DATE: 7/28/97	SEC. T. N., E.	ELEVATION:	ANGLE:	DRILLER:	

SCALE: 1" = 10 ft

LITH. EXPLANATION:

MUD CGL	Mud matrix conglomerate
LITH TUF	Lithic clast dominant tuff
PUM TUF	Pumice rich tuff
SURGE TUF	Bedded matrix rich lithic tuff

DRILLING: DEPTH FT; RECOVERY; RQD

LITHOLOGY: ALUVUM; MUD CGL; LITHTUF; PUMTUF; SURGTUF; SASHFLO; ALAVA; AUTOBX; INTRUSIV; BASALT; ANDESIT; RHYOLIT

STRUCT: TEC BXA; BROKEN; GOUGE; VOID

ALTERATION/MINLIZATION: Fe MIN: MNOX; HEMTIT; LIMONIT; PYRITE; PROP; ARG; ARGG; ARPL SIL; QTZ VNS; CALCITE; METCLAS

STRAT: BADGER; CHOCOLT; BUD; BRADY; MKPOR; LBUD; WILDROS; DOZER

DEPTH FT; LITHGRAPH; ALTGRAPH; STRCT

SAMPLE INT

COMMENTS

Depth	Recovery	RQD	Sample	Box
1205	10.2 / 10.0	10.2 / 10.0	1204.5	11
1210	10.0 / 10.0	9.9 / 10.0	1214.5	12
1215	10.0 / 10.0	6.8 / 10.0	1224.5	13
1220	10.0 / 10.0	7.6 / 10.0	1234.5	14
1225	9.6 / 10.0	7.2 / 9.8	1244.5	15
1230	10.4 / 9.8		1249	16
1235				17
1240				
1245				
1250				

35° TCA Flow Banding

Pink matrix bx as above

slicks rake 70°

CTC 40° TCA. Chilled intrusive contact. Foliated top 1 ft

1228 – 1249 Porphyry

Top irregular, corroded slicks on CTC

white alt'd plag phenos

TS1233

Darker grn, softer, more argillic

Bottom CTC sharp, poss. thin chill margin

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH:	STARTED:	PAGE: 4/8
LOGD BY: RLK	STATE: Nevada County Pershing	EASTING:	BEARING:	COMPLETED:	HOLE # 97-398C
DATE: 7/28/97	SEC. T. N., E.	ELEVATION:	ANGLE:	DRILLER:	

SCALE: 1" =10 ft

LITH. EXPLANATION:

MUD CGL	Mud matrix conglomerate
LITH TUF	Lithic clast dominant tuff
PUM TUF	Pumice rich tuff
SURGE TUF	Bedded matrix rich lithic tuff

DEPTH FT	REC/CUT	RQD	Box No.	SAMPLE INT
1255			17	1254.3
1260	10.1 / 10.3	8.6 / 10.3	18	1260
1265				1264.6
1270	10.2 / 10.0	8.0 / 10.0	19	1270
1275				1274.6
1280	9.6 / 10.0	9.3 / 10.0	20	1280
1285				1284.6
1290	10.1 / 10.0	8.9 / 10.0	21	1290
1295				1294.6
1300			22	1300

COMMENTS

1249 – 1350.5
Rhyolite crackle breccia, as above

Slicks on calcite vein 40 TCA, rake 20°

40° Flow banded

40

55

60 Flow banded

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH:	STARTED:	PAGE: 5/8
LOGD BY: RLK	STATE: Nevada County Pershing	EASTING:	BEARING:	COMPLETED:	HOLE # 97-398c
DATE: 8/9/97	SEC. T. N., E.	ELEVATION:	ANGLE:	DRILLER:	

SCALE: 1" =10 ft

LITH. EXPLANATION:

MUD CGL	Mud matrix conglomerate
LITH TUF	Lithic clast dominant tuff
PUM TUF	Pumice rich tuff
SURGE TUF	Bedded matrix rich lithic tuff

DEPTH FT	DRILLING REC/CUT	DRILLING Q	LITHOLOGY (1–13)	STRUCT (14–17)	ALTERATION/MINLIZATION (18–27)	STRAT (30–37)	DEPTH FT	LITH GRAPH	ALT GRAPH	ST RCT	COMMENTS	SAMPLE INT	Box No
	10.0/10.0	9.5/10.0			1					65°	Flow banded TS 1301		22
1305							1305					1304.6	
													23
1310	10.0/10.0	8.6/10.0					1310			50°		1310	
1315							1315					1314.6	24
1320	10.0/10.0	9.5/10.0					1320					1320	
1325							1325					1324.6	25
1330	9.5/9.9	8.7/9.9					1330			50°		1330	
1335							1335					1334.5	26
1340	10.2/10.0	9.2/10.0					1340			35°	crackled – rotated clast breccia, ctc @ 35° TCA	1340	
1345							1345					1344.5	27
1350	9.5/10.0	6.2/10.0					1350						

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH:	STARTED:	PAGE: 6/8
LOGD BY: RLR	STATE: Nevada County Pershing	EASTING:	BEARING:	COMPLETED:	HOLE # 97-398c
DATE: 8/9/97	SEC. T. N., E.	ELEVATION:	ANGLE:	DRILLER:	

DRILLING: DEPTH (FT); REC/CUT; RQD

LITHOLOGY: ALLUVUM (1), MUDCGL (2), (3), LITHTUF (4), PUMTUF (5), SURGTUF (6), ASH (7), LAVA (8), AUTOBXA (9), INTRUSV (10), BASALT (11), ANDESITE (12), RHYOLITE (13)

STRUCT: TE.CBX (14), BRKCON (15), GOUGE (16), VOID (17)

ALTERATION/MINLIZATION: Fe MIN: MNOX (18), HEMTIT (19), LIMONIT (20), PYRITE (21); PROP (22), ARG (23), ARG2 (24), RPL SIL (25), (26), QTZ VNS (27), CALCITE (28), METCLAS (29)

STRAT: BCH DOCOBUD (30), (31), (32), BRADY (33), MKR POR (34), (35), LUD (36), WILDROS (37), DOZER

DEPTH (FT); LITHGRAPH; ALTGRAT; STRCT

SCALE: 1" = 10 ft

LITH. EXPLANATION:

MUD CGL	Mud matrix conglomerate
LITH TUF	Lithic clast dominant tuff
PUM TUF	Pumice rich tuff
SURGE TUF	Bedded matrix rich lithic tuff

COMMENTS

SAMPLE INT; BOX NO.

Depth (ft)	Rec/Cut	RQD	Sample interval	Box No.
1350.9				
1353			1350.9 – 1353 wht vuggy calcite vein	
1354.5			1353 – 1364.5 Breccia / Soft clay matrix. Rounded clasts of avg. volcanics.	28
1358.5			slicks on py vn	
1359.7			str. py & black sooty sulf that ox to blue gy	
1362.5			py in vnlts, clots. Both as clasts & in matrix and vnlts	29
1364.5				
1366.5			1364.5 – 1374.5 Crackle bxa, not much gouge. Rhyolite	
1368.5				
1370.5			← 2" Gouge zone; ← ½" Gouge	30
1372.5			TS 1372.7; ← Silic matrix bxa	
1373.4				
1374.5				
1377.4			1374.5 – 1418 Rhyolite. Flow banded where not sheared	
1378.3				
1380			TS 1382	31
1385				
1392.5			– Py seam; – Knots & vnlts of vfg py; up to 1" calcite vns	32
1395.4			crackled, gouey matrix; ← py clast in gouge matrix; irreg. calcite vns & clots	33
1400				

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1465	STARTED:	PAGE: 7/8
LOGD BY: RAK	STATE: Nevada County Pershing	EASTING:	BEARING:	COMPLETED:	HOLE # 97-398c
DATE: 8/9/97	SEC. T. N., E.	ELEVATION:	ANGLE:	DRILLER:	

SCALE: 1" =10 ft

LITH. EXPLANATION:

MUD CGL	Mud matrix conglomerate
LITH TUF	Lithic clast dominant tuff
PUM TUF	Pumice rich tuff
SURGE TUF	Bedded matrix rich lithic tuff

DEPTH FT	RECOVERY	RQD	DIP	COMMENTS	SAMPLE INT	BOX NO.
1405	9.7/9.7	2.2/9.7	65°	Shear zone etc Sheared fabric ~65° TCA Py clasts, also Vnlts parallel to shear fabric	1405.1	33
1410	9.4/9.4	0/9.4			1410.1	34
1415			35 60 45	slicks — Flow banding Fault etc — Flow banding	1414.5 1418	35
1420	6.4/6.4	0/6.4		1418-1465 Black Carbonaceous, JKa calcareous argillite/shale/phyllite. Black slicks along bed planes Sheared at top, less deformed below 1448'	1420.9	
1425	5.0/5.2	0/5.2			1426.1	36
1430	3.4/3.9	0/3.9		Calcite fills bxa matrix	1430	
1435	3.0/3.0 3.2/3.2	0.6/3.0 0.5/3.2	50	← 10° calc. vein bedding	1433	37
1440	2.7/3.3	0/3.3			1439.5	
1445	6.2/6.2	3.0/6.2		-8" calc. vein	1445.7	38
1450	6.0/6.0	0.9/6.0	55	bedding		

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1465	STARTED:	PAGE: 8/8
LOGD BY: RLK	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED:	HOLE #
DATE: 8/9/97	SEC. T. N., E.	ELEVATION:	ANGLE: -90	DRILLER:	97-398C

DEPTH FT	REC/CUT	RQD	ALLUVIUM (1)	MUDCGL (2)	SHALE (3)	LITHTUFF (4)	PUMTUFF (5)	SURGTUFF (6)	ASHFLO (7)	LAVA (8)	AUTOBXA (9)	INTRUSIV (10)	BASALT (11)	ANDESITE (12)	RHYOLIT (13)	TEC.CBXA (14)	BROKEN (15)	GOUGE (16)	VOID (17)	Fe MIN: MNOX (18)	HEMATITE (19)	LIMONITE (20)	PYRITE (21)	PROP (22)	ARG (23)	ARG (24)	RPL SILL (25)	(26)	QTZ VNS (27)	CALCITE (28)	METALS (29)	BADGER (30)	CHOCOLT (31)	UBUD (32)	BRADY (33)	MKRPOR (34)	LBUD (35)	WILDROS (36)	DOZER (37)	DEPTH FT	LITHGRAPH	ALTGRAP	STRCT	SCALE: 1" =10 ft	SAMPLINT
																														4																1451.7
	4.3	0.5																																												39
1455	4.3	4.3																																							1455	1.75				1456
	6.2	0																																												
1460	6.2	6.2																																							1460	1.60				1461	40
	2.8	1.0																																												
1465	2.8	2.8																																							1465	1.80				1465	41

LITH. EXPLANATION:

MUD CGL	Mud matrix conglomerate
LITH TUF	Lithic clast dominant tuff
PUM TUF	Pumice rich tuff
SURGE TUF	Bedded matrix rich lithic tuff

COMMENTS

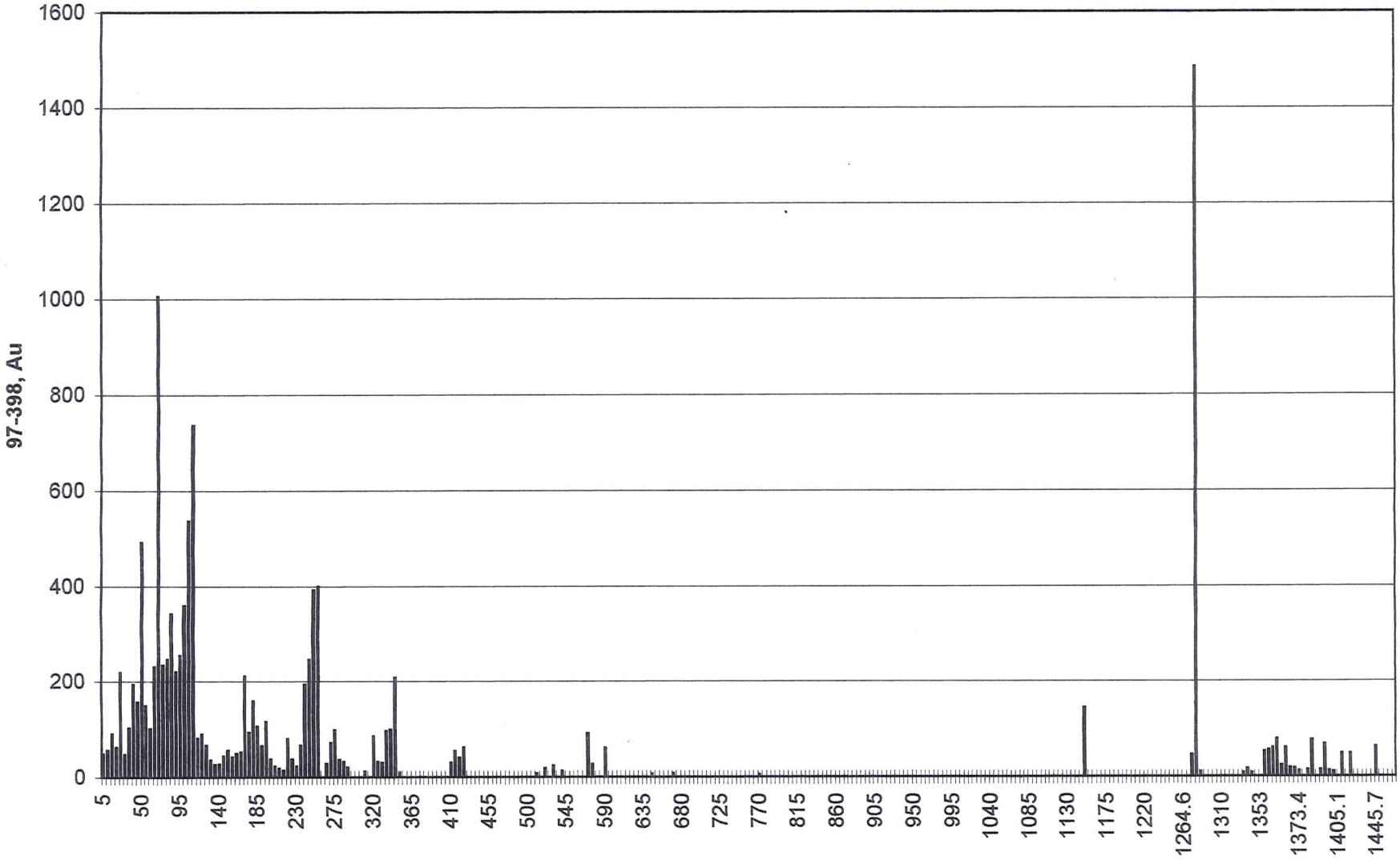
- Folding

Black Shale as above - bedding very clear, undef.

Soft Sed deform.

1465' T.D.

Au, ppb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1400
1200
1000
800
600
400
200
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5
50
95
140
185
230
275
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455
500
545
590
635
680
725
770
815
860
905
950
995
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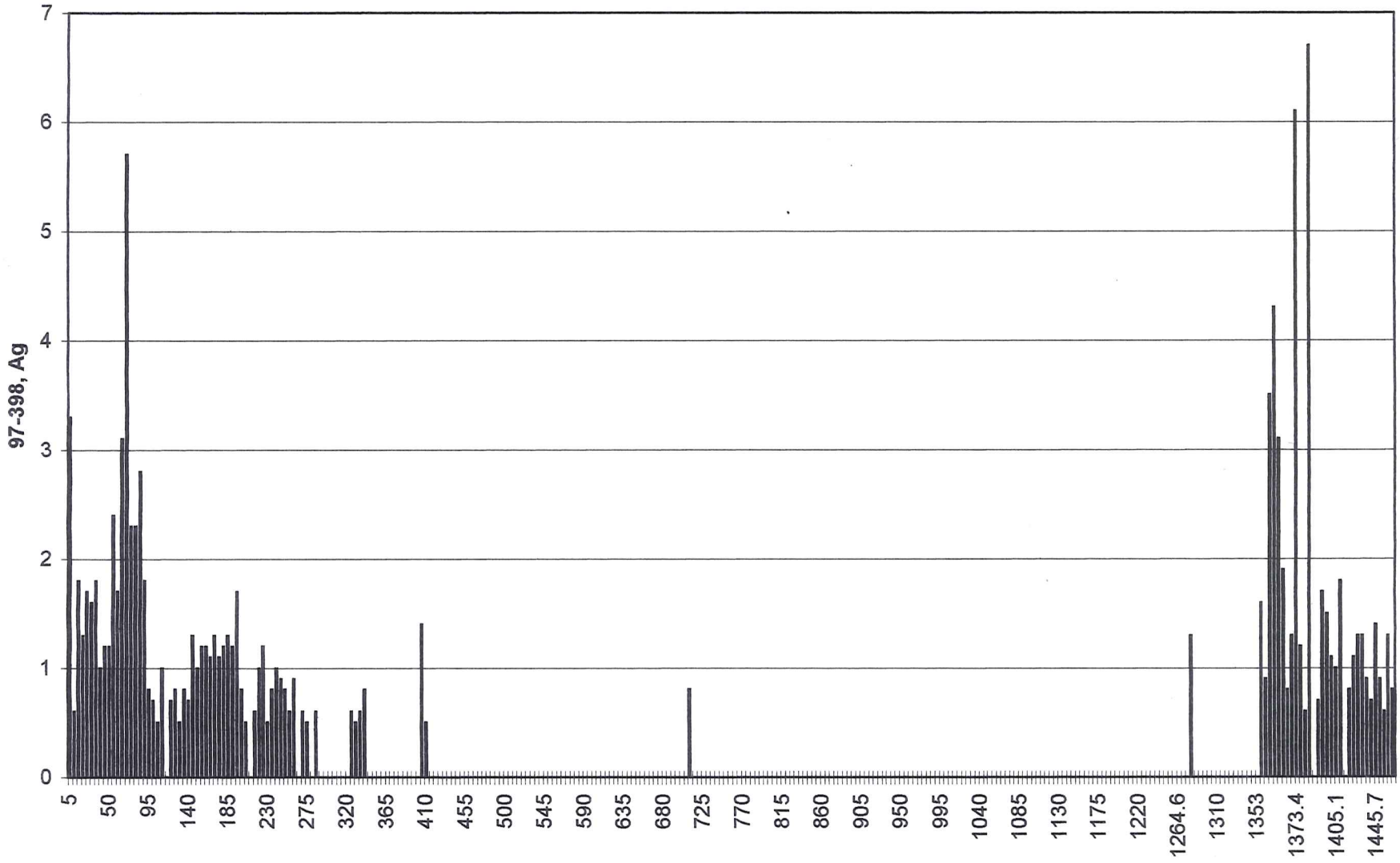
1310
1353
1373.4
1405.1
1445.7

Ag

Ag, ppm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545
590
635
680
725
770
815
860
905
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1130
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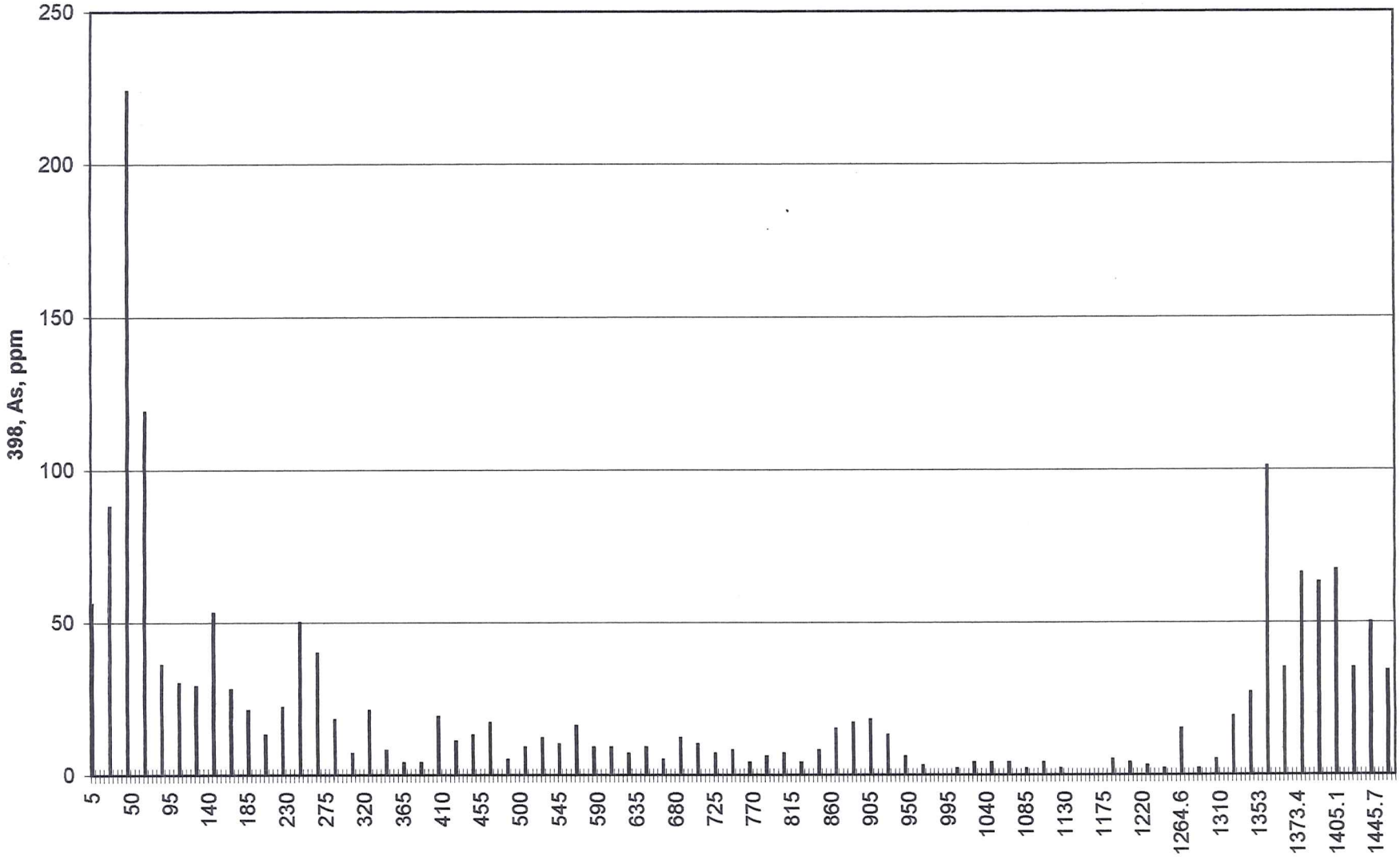
1220
1264.6
1310
1353
1373.4
1405.1
1445.7

As, ppm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590
635
680
725
770
815
860
905
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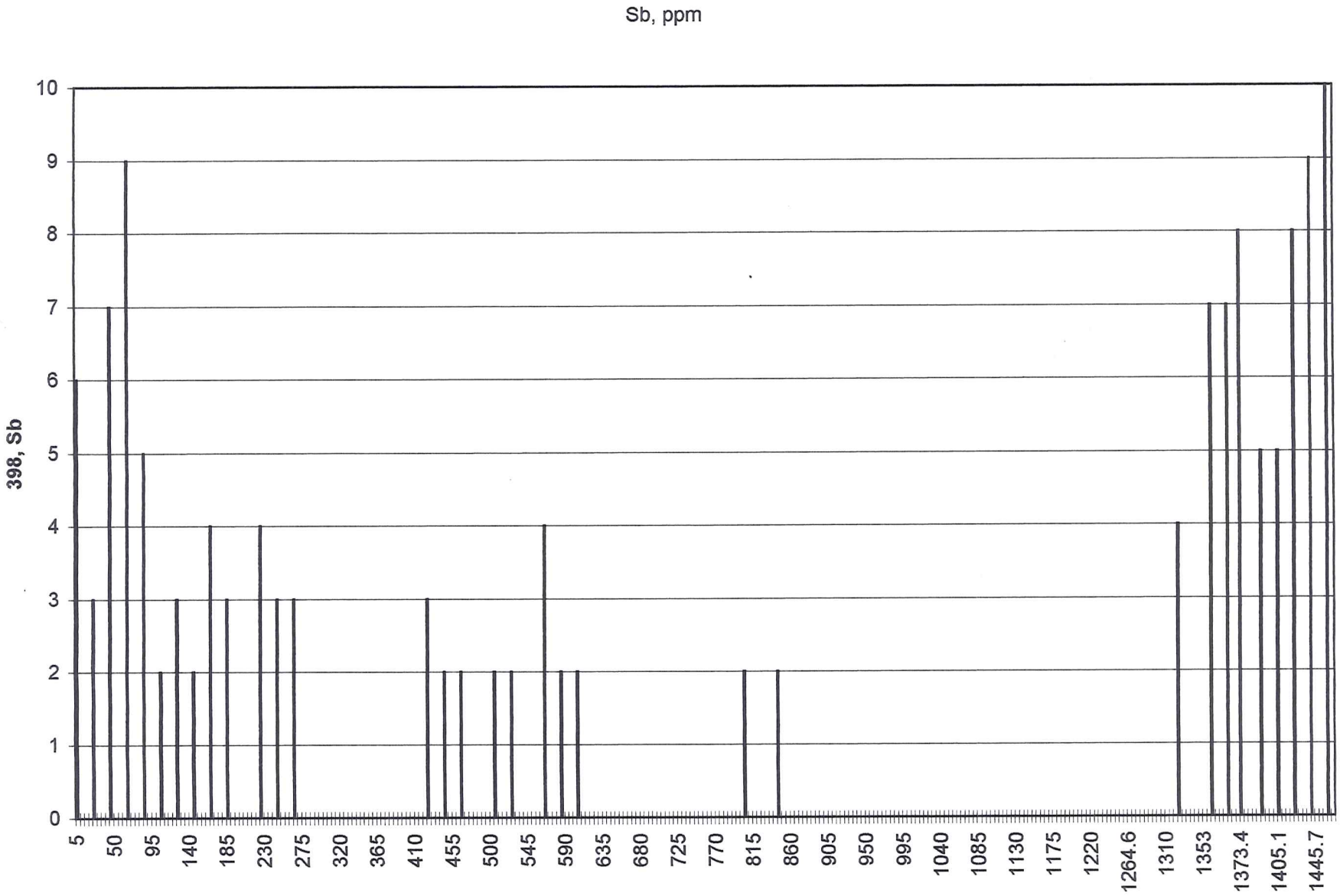
1264.6
1310
1353
1373.4
1405.1
1445.7

Sb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365
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455
500
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635
680
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770
815
860
905
950
995
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1264.6
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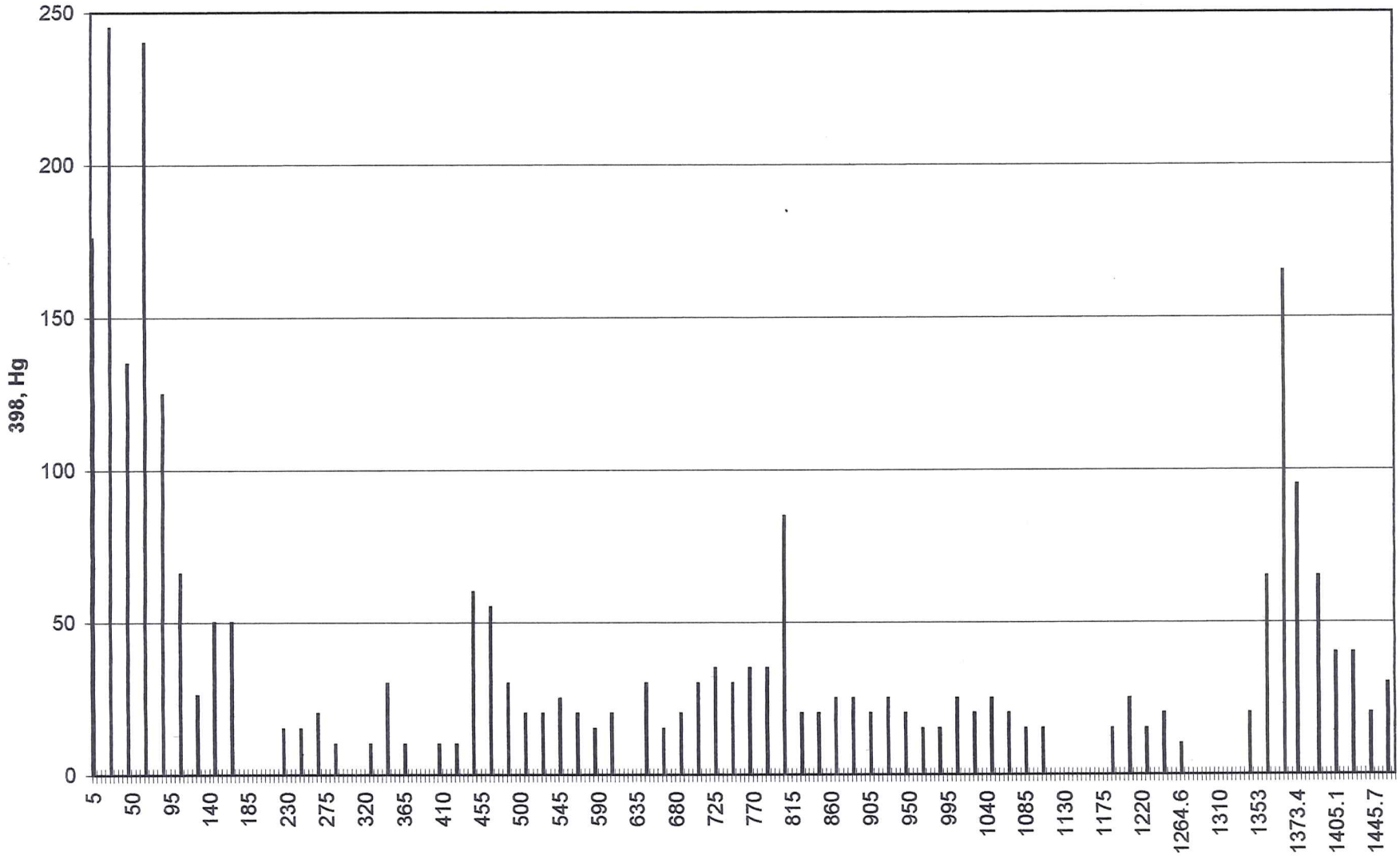
1353
1373.4
1405.1
1445.7

Hg, ppb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5
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365
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770
815
860
905
950
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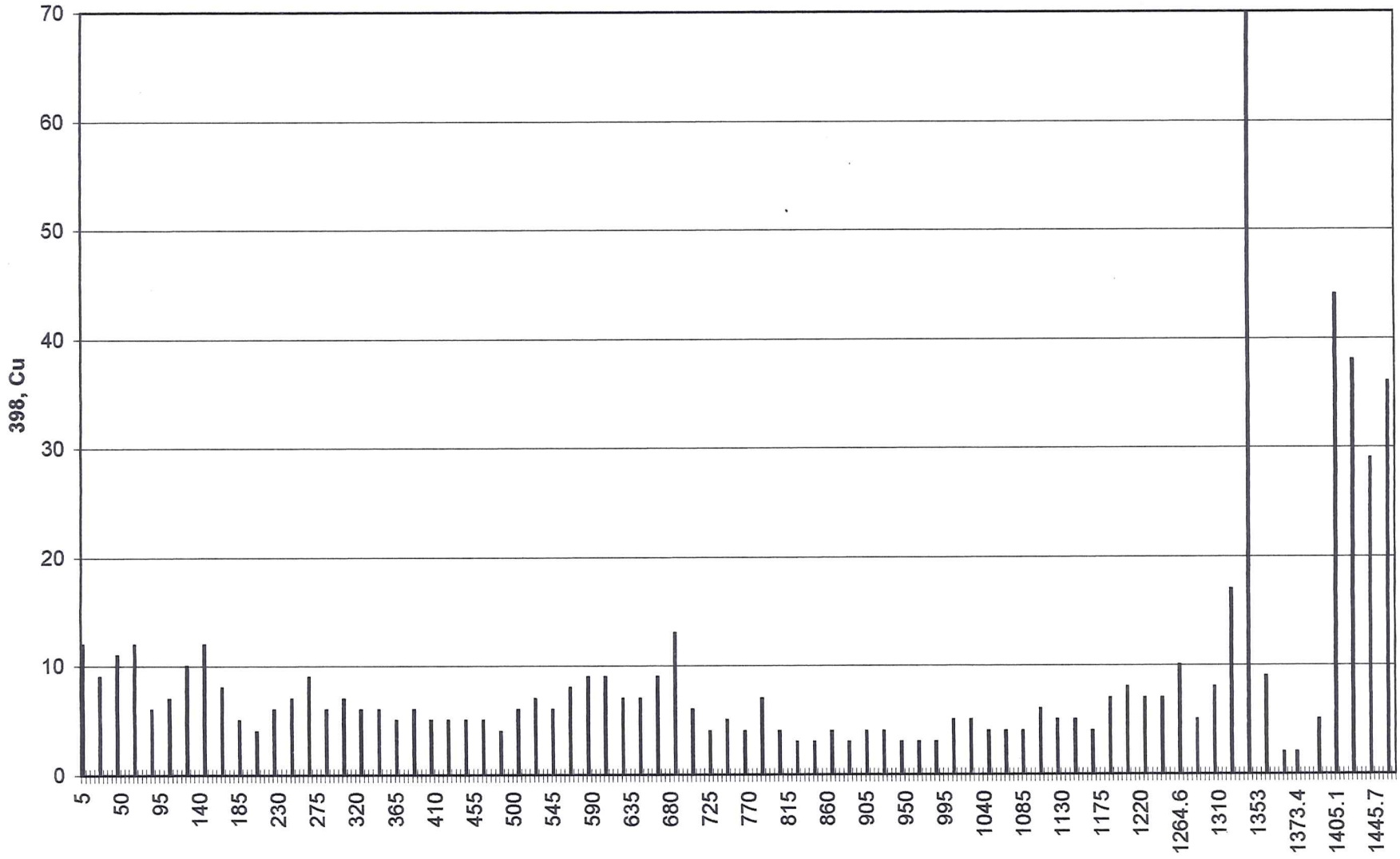
1353
1373.4
1405.1
1445.7

Cu

Cu, ppm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500
545
590
635
680
725
770
815
860
905
950
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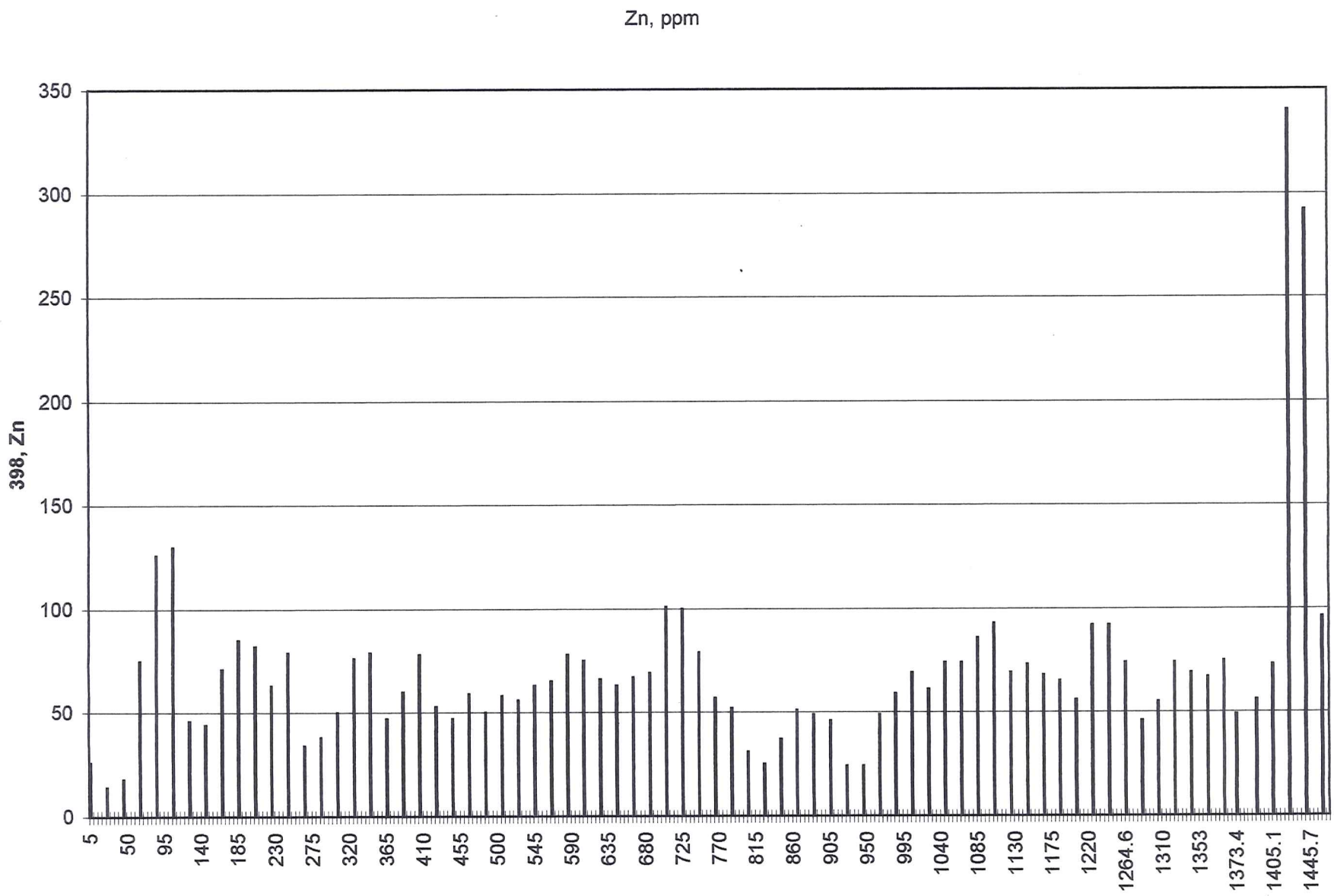
1264.6
1310
1353
1373.4
1405.1
1445.7

Zn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200
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100
50
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5
50
95
140
185
230
275
320
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455
500
545
590
635
680
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1130
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1220
1264.6
1310
1353
1373.4
1405.1
1445.7

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Mendoza, Argentina

Company: Rosebud Exploration

Address: P.O. Box 2610

City Winnemucca State NV Zip 89446

Telephone Number: (702) 623 6912 Fax Number: (702) 623 6967

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 6/25/97 Number of Samples: 220

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
97-398	RC	Au, Ag FA/AA each sample
0 – 1100 T.D.		
		and
		ICP PKg on 4-Sample (20')
		composites: 0-20, 20-40 etc.
		and
		Hg-AA on the Composited
		Samples.

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:
Bob Kastelic - Rosebud Mine

Results to:
Rick Lisle - Newmont, Winnemucca

Bob Kastelic
Charlie Muerhoff > Rosebud Mine

Comments:

CLIENT FILE COPY

xAMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP045123

American Assay Laboratories

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

SANTA FE PACIFIC GOLD

COPIES TO : BOB KASTELIC
: RICK LISLE
:
:

CLIENT REFERENCE No: 97-398 RECEIVED : 27 JUN 1997

No. SAMPLES : 220 REPORTED : 27 JUN 1997

MAIN SAMPLE TYPE : DRILL CUTTINGS

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 SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0000-0005	48		0.001		3.3	0.10
97-398 0005-0010	56		0.002		0.6	<0.02
97-398 0010-0015	90		0.003		1.8	0.05
97-398 0015-0020	67		0.002		1.3	0.04
97-398 0020-0025	218		0.006		1.7	0.05
97-398 0025-0030	47		0.001		1.6	0.05
97-398 0030-0035	103		0.003		1.8	0.05
97-398 0035-0040	194		0.006		1.0	0.03
97-398 0040-0045	156		0.005		1.2	0.04
97-398 0045-0050	492		0.014		1.2	0.04
97-398 0050-0055	149		0.004		2.4	0.07
97-398 0055-0060	101		0.003		1.7	0.05
97-398 0060-0065	230		0.007		3.1	0.09
97-398 0065-0070	1006		0.029		5.7	0.17
97-398 0070-0075	233		0.007		2.3	0.07
97-398 0075-0080	246		0.007		2.3	0.07
97-398 0080-0085	342		0.010		2.8	0.08
97-398 0085-0090	220		0.006		1.8	0.05
97-398 0090-0095	255	242	0.007	0.007	0.8	0.02
97-398 0095-0100	359		0.010		0.7	0.02
97-398 0100-0105	535		0.016		0.5	<0.02
97-398 0105-0110	736	738	0.021	0.022	1.0	0.03
97-398 0110-0115	81		0.002		<0.5	<0.02
97-398 0115-0120	90		0.003		0.7	0.02
97-398 0120-0125	66		0.002		0.8	0.02

AMERICAN ASSAY LABORATORIES

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CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0125-0130	35		0.001		0.5	<0.02
97-398 0130-0135	26		<0.001		0.8	0.02
97-398 0135-0140	27		<0.001		0.7	0.02
97-398 0140-0145	44		0.001		1.3	0.04
97-398 0145-0150	56		0.002		1.0	0.03
97-398 0150-0155	42		0.001		1.2	0.04
97-398 0155-0160	49		0.001		1.2	0.04
97-398 0160-0165	52		0.002		1.1	0.03
97-398 0165-0170	211		0.006		1.3	0.04
97-398 0170-0175	93		0.003		1.1	0.03
97-398 0175-0180	159		0.005		1.2	0.04
97-398 0180-0185	106		0.003		1.3	0.04
97-398 0185-0190	65		0.002		1.2	0.04
97-398 0190-0195	116		0.003		1.7	0.05
97-398 0195-0200	38	48	0.001	0.001	0.8	0.02
97-398 0200-0205	22		<0.001		0.5	<0.02
97-398 0205-0210	18		<0.001		<0.5	<0.02
97-398 0210-0215	14		<0.001		0.6	<0.02
97-398 0215-0220	80		0.002		1.0	0.03
97-398 0220-0225	38	38	0.001	0.001	1.2	0.04
97-398 0225-0230	22		<0.001		0.5	<0.02
97-398 0230-0235	66		0.002		0.8	0.02
97-398 0235-0240	194	192	0.006	0.006	1.0	0.03
97-398 0240-0245	246		0.007		0.9	0.03
97-398 0245-0250	392		0.011		0.8	0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0250-0255	400		0.012		0.6	<0.02
97-398 0255-0260	286		0.008		0.9	0.03
97-398 0260-0265	28		<0.001		<0.5	<0.02
97-398 0265-0270	72		0.002		0.6	<0.02
97-398 0270-0275	98		0.003		0.5	<0.02
97-398 0275-0280	36		0.001		<0.5	<0.02
97-398 0280-0285	32		<0.001		0.6	<0.02
97-398 0285-0290	20		<0.001		<0.5	<0.02
97-398 0290-0295	<5		<0.001		<0.5	<0.02
97-398 0295-0300	<5		<0.001		<0.5	<0.02
97-398 0300-0305	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0305-0310	12		<0.001		<0.5	<0.02
97-398 0310-0315	<5		<0.001		<0.5	<0.02
97-398 0315-0320	86		0.003		<0.5	<0.02
97-398 0320-0325	32		<0.001		0.6	<0.02
97-398 0325-0330	30		<0.001		0.5	<0.02
97-398 0330-0335	96		0.003		0.6	<0.02
97-398 0335-0340	100		0.003		0.8	0.02
97-398 0340-0345	208		0.006		<0.5	<0.02
97-398 0345-0350	10		<0.001		<0.5	<0.02
97-398 0350-0355	<5		<0.001		<0.5	<0.02
97-398 0355-0360	<5		<0.001		<0.5	<0.02
97-398 0360-0365	<5		<0.001		<0.5	<0.02
97-398 0365-0370	<5		<0.001		<0.5	<0.02
97-398 0370-0375	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

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PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0375-0380	<5		<0.001		<0.5	<0.02
97-398 0380-0385	<5		<0.001		<0.5	<0.02
97-398 0385-0390	<5		<0.001		<0.5	<0.02
97-398 0390-0395	<5		<0.001		<0.5	<0.02
97-398 0395-0400	<5		<0.001		<0.5	<0.02
97-398 0400-0405	2308		0.067		1.4	0.04
97-398 0405-0410	30		<0.001		0.5	<0.02
97-398 0410-0415	56		0.002		<0.5	<0.02
97-398 0415-0420	41		0.001		<0.5	<0.02
97-398 0420-0425	62		0.002		<0.5	<0.02
97-398 0425-0430	<5		<0.001		<0.5	<0.02
97-398 0430-0435	<5		<0.001		<0.5	<0.02
97-398 0435-0440	<5		<0.001		<0.5	<0.02
97-398 0440-0445	<5		<0.001		<0.5	<0.02
97-398 0445-0450	<5		<0.001		<0.5	<0.02
97-398 0450-0455	<5		<0.001		<0.5	<0.02
97-398 0455-0460	<5		<0.001		<0.5	<0.02
97-398 0460-0465	<5		<0.001		<0.5	<0.02
97-398 0465-0470	<5		<0.001		<0.5	<0.02
97-398 0470-0475	<5		<0.001		<0.5	<0.02
97-398 0475-0480	<5		<0.001		<0.5	<0.02
97-398 0480-0485	<5		<0.001		<0.5	<0.02
97-398 0485-0490	<5		<0.001		<0.5	<0.02
97-398 0490-0495	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0495-0500	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0500-0505	<5		<0.001		<0.5	<0.02
97-398 0505-0510	7		<0.001		<0.5	<0.02
97-398 0510-0515	<5		<0.001		<0.5	<0.02
97-398 0515-0520	18		<0.001		<0.5	<0.02
97-398 0520-0525	<5		<0.001		<0.5	<0.02
97-398 0525-0530	24	22	<0.001	<0.001	<0.5	<0.02
97-398 0530-0535	<5		<0.001		<0.5	<0.02
97-398 0535-0540	13		<0.001		<0.5	<0.02
97-398 0540-0545	<5		<0.001		<0.5	<0.02
97-398 0545-0550	<5		<0.001		<0.5	<0.02
97-398 0550-0555	<5		<0.001		<0.5	<0.02
97-398 0555-0560	<5		<0.001		<0.5	<0.02
97-398 0560-0565	<5		<0.001		<0.5	<0.02
97-398 0565-0570	91		0.003		<0.5	<0.02
97-398 0570-0575	27	16	<0.001	<0.001	<0.5	<0.02
97-398 0575-0580	<5		<0.001		<0.5	<0.02
97-398 0580-0585	<5		<0.001		<0.5	<0.02
97-398 0585-0590	61		0.002		<0.5	<0.02
97-398 0590-0595	<5		<0.001		<0.5	<0.02
97-398 0595-0600	<5		<0.001		<0.5	<0.02
97-398 0600-0605	<5		<0.001		<0.5	<0.02
97-398 0605-0610	<5		<0.001		<0.5	<0.02
97-398 0610-0615	<5		<0.001		<0.5	<0.02
97-398 0615-0620	<5		<0.001		<0.5	<0.02
97-398 0620-0625	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
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REFERENCE : 97-398

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0625-0630	<5		<0.001		<0.5	<0.02
97-398 0630-0635	<5		<0.001		<0.5	<0.02
97-398 0635-0640	<5		<0.001		<0.5	<0.02
97-398 0640-0645	6		<0.001		<0.5	<0.02
97-398 0645-0650	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0650-0655	<5		<0.001		<0.5	<0.02
97-398 0655-0660	<5		<0.001		<0.5	<0.02
97-398 0660-0665	<5		<0.001		<0.5	<0.02
97-398 0665-0670	7		<0.001		<0.5	<0.02
97-398 0670-0675	<5		<0.001		<0.5	<0.02
97-398 0675-0680	<5		<0.001		<0.5	<0.02
97-398 0680-0685	<5		<0.001		<0.5	<0.02
97-398 0685-0690	<5		<0.001		<0.5	<0.02
97-398 0690-0695	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0695-0700	<5		<0.001		<0.5	<0.02
97-398 0700-0705	<5		<0.001		<0.5	<0.02
97-398 0705-0710	<5		<0.001		0.8	0.02
97-398 0710-0715	<5		<0.001		<0.5	<0.02
97-398 0715-0720	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0720-0725	<5		<0.001		<0.5	<0.02
97-398 0725-0730	<5		<0.001		<0.5	<0.02
97-398 0730-0735	<5		<0.001		<0.5	<0.02
97-398 0735-0740	<5		<0.001		<0.5	<0.02
97-398 0740-0745	<5		<0.001		<0.5	<0.02
97-398 0745-0750	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0750-0755	<5		<0.001		<0.5	<0.02
97-398 0755-0760	<5		<0.001		<0.5	<0.02
97-398 0760-0765	<5		<0.001		<0.5	<0.02
97-398 0765-0770	5		<0.001		<0.5	<0.02
97-398 0770-0775	<5		<0.001		<0.5	<0.02
97-398 0775-0780	<5		<0.001		<0.5	<0.02
97-398 0780-0785	<5		<0.001		<0.5	<0.02
97-398 0785-0790	<5		<0.001		<0.5	<0.02
97-398 0790-0795	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0795-0800	<5		<0.001		<0.5	<0.02
97-398 0800-0805	<5		<0.001		<0.5	<0.02
97-398 0805-0810	<5		<0.001		<0.5	<0.02
97-398 0810-0815	<5		<0.001		<0.5	<0.02
97-398 0815-0820	<5		<0.001		<0.5	<0.02
97-398 0820-0825	<5		<0.001		<0.5	<0.02
97-398 0825-0830	<5		<0.001		<0.5	<0.02
97-398 0830-0835	<5		<0.001		<0.5	<0.02
97-398 0835-0840	<5		<0.001		<0.5	<0.02
97-398 0840-0845	<5		<0.001		<0.5	<0.02
97-398 0845-0850	<5		<0.001		<0.5	<0.02
97-398 0850-0855	<5		<0.001		<0.5	<0.02
97-398 0855-0860	<5		<0.001		<0.5	<0.02
97-398 0860-0865	<5		<0.001		<0.5	<0.02
97-398 0865-0870	<5		<0.001		<0.5	<0.02
97-398 0870-0875	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0875-0880	<5		<0.001		<0.5	<0.02
97-398 0880-0885	<5		<0.001		<0.5	<0.02
97-398 0885-0890	<5		<0.001		<0.5	<0.02
97-398 0890-0895	<5		<0.001		<0.5	<0.02
97-398 0895-0900	<5		<0.001		<0.5	<0.02
97-398 0900-0905	<5		<0.001		<0.5	<0.02
97-398 0905-0910	<5		<0.001		<0.5	<0.02
97-398 0910-0915	<5		<0.001		<0.5	<0.02
97-398 0915-0920	<5		<0.001		<0.5	<0.02
97-398 0920-0925	<5		<0.001		<0.5	<0.02
97-398 0925-0930	<5		<0.001		<0.5	<0.02
97-398 0930-0935	<5		<0.001		<0.5	<0.02
97-398 0935-0940	<5		<0.001		<0.5	<0.02
97-398 0940-0945	<5		<0.001		<0.5	<0.02
97-398 0945-0950	<5		<0.001		<0.5	<0.02
97-398 0950-0955	<5		<0.001		<0.5	<0.02
97-398 0955-0960	<5		<0.001		<0.5	<0.02
97-398 0960-0965	<5		<0.001		<0.5	<0.02
97-398 0965-0970	<5		<0.001		<0.5	<0.02
97-398 0970-0975	<5		<0.001		<0.5	<0.02
97-398 0975-0980	<5		<0.001		<0.5	<0.02
97-398 0980-0985	<5		<0.001		<0.5	<0.02
97-398 0985-0990	<5		<0.001		<0.5	<0.02
97-398 0990-0995	<5		<0.001		<0.5	<0.02
97-398 0995-1000	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1000-1005	<5		<0.001		<0.5	<0.02
97-398 1005-1010	<5		<0.001		<0.5	<0.02
97-398 1010-1015	<5		<0.001		<0.5	<0.02
97-398 1015-1020	<5		<0.001		<0.5	<0.02
97-398 1020-1025	<5		<0.001		<0.5	<0.02
97-398 1025-1030	<5		<0.001		<0.5	<0.02
97-398 1030-1035	<5		<0.001		<0.5	<0.02
97-398 1035-1040	<5		<0.001		<0.5	<0.02
97-398 1040-1045	<5		<0.001		<0.5	<0.02
97-398 1045-1050	<5		<0.001		<0.5	<0.02
97-398 1050-1055	<5		<0.001		<0.5	<0.02
97-398 1055-1060	<5		<0.001		<0.5	<0.02
97-398 1060-1065	<5		<0.001		<0.5	<0.02
97-398 1065-1070	<5		<0.001		<0.5	<0.02
97-398 1070-1075	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1075-1080	<5		<0.001		<0.5	<0.02
97-398 1080-1085	<5		<0.001		<0.5	<0.02
97-398 1085-1090	<5		<0.001		<0.5	<0.02
97-398 1090-1095	<5		<0.001		<0.5	<0.02
97-398 1095-1100	<5	<5	<0.001	<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	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
	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	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.

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

CLIENT: *ROSEBUD EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP045123
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-398 0000-0020	0.8	0.92	56	16	181	< 2	1.36	0.2	2	6	12	2.44	175	0.47	35	0.2	207	2	0.24	5	0.031	19	6	157	11	< .01	< 5	20	< 2	26
97-398 0020-0040	1.5	0.51	88	3	120	< 2	0.19	< .2	< 1	4	9	1.97	245	0.46	30	0.03	101	2	0.05	3	0.012	19	3	102	11	< .01	< 5	5	< 2	14
97-398 0040-0060	1.5	0.47	224	< 3	107	< 2	0.14	< .2	< 1	5	11	2.37	135	0.3	19	0.03	81	4	0.02	3	0.021	16	7	114	7	< .01	< 5	4	< 2	18
97-398 0060-0080	3.6	0.75	119	< 3	17	< 2	0.22	0.6	5	4	12	2.86	240	0.38	20	0.04	54	3	0.02	4	0.051	18	9	291	4	< .01	< 5	2	< 2	75
97-398 0080-0100	2.2	1.08	36	< 3	13	< 2	0.33	0.5	4	2	6	2.59	125	0.44	20	0.05	762	1	0.01	2	0.058	27	5	142	4	< .01	14	2	< 2	125
97-398 0100-0120	0.8	1.02	30	< 3	19	< 2	1.92	0.3	3	2	7	2.91	65	0.37	19	0.09	1490	1	0.02	3	0.049	29	2	82	4	< .01	< 5	3	< 2	130
97-398 0120-0140	0.7	0.72	29	< 3	46	< 2	1.57	0.3	1	3	10	2.04	25	0.32	16	0.06	488	1	0.03	2	0.04	22	3	73	3	< .01	< 5	2	< 2	46
97-398 0140-0160	0.9	0.59	53	< 3	35	< 2	1.48	0.3	1	6	12	2.21	50	0.33	13	0.04	388	2	0.02	4	0.05	20	2	91	3	< .01	< 5	3	< 2	44
97-398 0160-0180	1	0.78	28	< 3	53	2	2.14	0.4	2	3	8	2.26	50	0.29	12	0.13	652	1	0.03	2	0.037	21	4	105	4	< .01	< 5	3	< 2	71
97-398 0180-0200	0.7	0.82	21	< 3	55	< 2	6.51	0.4	4	2	5	2.3	< 10	0.23	10	0.25	1714	1	0.03	2	0.031	18	3	228	2	< .01	< 5	3	< 2	85
97-398 0200-0220	0.3	1.04	13	< 3	41	2	4.49	0.8	3	1	4	2.36	< 10	0.28	19	0.32	1795	< 1	0.03	1	0.043	25	< 2	172	2	< .01	7	2	< 2	82
97-398 0220-0240	0.9	0.71	22	< 3	44	< 2	1.28	0.6	1	2	6	2.24	15	0.29	19	0.15	488	1	0.04	2	0.035	32	4	81	3	< .01	8	1	< 2	63
97-398 0240-0260	1.1	0.76	50	< 3	30	< 2	3.65	0.9	1	2	7	2.77	15	0.31	13	0.11	772	1	0.04	1	0.036	31	3	179	3	< .01	< 5	1	< 2	79
97-398 0260-0280	0.6	0.74	40	< 3	63	< 2	1.44	0.6	1	4	9	2.73	20	0.29	18	0.05	548	1	0.05	3	0.029	26	3	77	5	< .01	5	2	< 2	34
97-398 0280-0300	< .3	0.64	19	< 3	70	< 2	1.75	0.6	< 1	3	6	1.94	10	0.25	21	0.05	681	< 1	0.04	2	0.029	23	< 2	97	4	< .01	< 5	1	< 2	38
97-398 0300-0320	< .3	0.7	7	< 3	125	< 2	1.56	0.5	< 1	2	7	1.78	< 10	0.27	25	0.06	520	< 1	0.05	2	0.036	30	< 2	91	4	< .01	7	1	< 2	50
97-398 0320-0340	0.8	0.71	21	< 3	98	3	1.39	0.7	1	1	6	1.82	10	0.25	22	0.09	676	1	0.04	< 1	0.04	22	< 2	85	3	< .01	13	1	< 2	76
97-398 0340-0360	< .3	0.77	8	< 3	255	9	2.09	0.4	1	2	6	1.73	30	0.28	29	0.09	794	1	0.04	1	0.036	23	< 2	105	3	< .01	8	1	< 2	79
97-398 0360-0380	< .3	0.63	4	< 3	203	< 2	1.69	0.4	1	3	5	1.5	10	0.33	34	0.08	590	< 1	0.04	2	0.043	21	< 2	135	5	0.01	< 5	3	< 2	47
97-398 0380-0400	< .3	0.78	4	3	151	< 2	1.51	0.2	1	2	6	1.71	< 10	0.34	36	0.12	673	< 1	0.05	2	0.056	21	< 2	133	4	0.02	< 5	3	< 2	60
97-398 0400-0420	0.3	0.83	19	< 3	117	< 2	2.61	0.6	2	3	5	2.52	10	0.32	27	0.15	1012	1	0.05	2	0.058	18	< 2	172	4	0.01	< 5	4	< 2	78
97-398 0420-0440	< .3	0.55	11	3	235	2	1.18	0.2	1	4	5	2.3	10	0.27	32	0.07	553	1	0.06	3	0.042	20	3	138	6	0.02	7	3	< 2	53
97-398 0440-0460	0.3	0.46	13	< 3	110	< 2	0.94	0.3	1	3	5	2	60	0.25	36	0.04	498	1	0.06	2	0.039	19	2	123	6	0.03	< 5	2	< 2	47
97-398 0460-0480	< .3	0.66	17	< 3	157	< 2	1.29	0.4	1	3	5	1.71	55	0.29	33	0.07	939	< 1	0.06	2	0.044	35	2	161	4	< .01	< 5	2	< 2	59
97-398 0480-0500	< .3	0.79	5	< 3	585	< 2	0.59	0.5	1	1	4	1.31	30	0.33	36	0.09	393	< 1	0.05	1	0.041	18	< 2	183	4	< .01	< 5	1	< 2	50
97-398 0500-0520	< .3	0.79	9	< 3	516	< 2	1.11	0.3	2	2	6	1.51	20	0.33	37	0.09	651	3	0.05	2	0.038	23	2	180	5	< .01	6	1	< 2	58
97-398 0520-0540	< .3	0.87	12	< 3	298	< 2	1.51	0.4	2	4	7	1.92	20	0.35	38	0.09	742	2	0.06	4	0.037	24	2	140	5	< .01	< 5	3	< 2	56
97-398 0540-0560	< .3	0.86	10	< 3	155	< 2	1.29	0.3	2	4	6	1.88	25	0.33	38	0.1	586	4	0.06	4	0.034	20	< 2	139	5	< .01	< 5	2	< 2	63
97-398 0560-0580	0.4	0.93	16	< 3	230	2	1.95	0.5	2	6	8	2.36	20	0.31	37	0.13	738	7	0.05	6	0.037	25	4	164	6	< .01	< 5	3	< 2	65
97-398 0580-0600	< .3	0.89	9	< 3	186	3	1.48	0.3	3	8	9	2.28	15	0.28	49	0.1	728	4	0.06	8	0.03	23	2	114	9	< .01	5	7	< 2	78
97-398 0600-0620	< .3	0.95	9	< 3	129	< 2	1.31	0.4	3	10	9	2.29	20	0.26	49	0.12	511	5	0.06	8	0.038	21	2	125	8	< .01	< 5	8	< 2	75
97-398 0620-0640	< .3	1.01	7	< 3	128	7	1.54	0.4	1	5	7	2.5	< 10	0.29	37	0.15	598	12	0.05	3	0.034	22	< 2	187	7	< .01	< 5	2	< 2	66
97-398 0640-0660	< .3	0.79	9	< 3	141	2	0.67	0.4	< 1	3	7	1.9	30	0.28	48	0.1	383	4	0.06	2	0.016	19	< 2	119	11	< .01	< 5	1	< 2	63
97-398 0660-0680	< .3	1.05	5	< 3	74	2	1.8	0.6	3	12	9	1.67	15	0.35	45	0.18	534	5	0.05	12	0.034	27	< 2	193	9	< .01	8	6	< 2	67
STANDARD C3	5.8	1.94	57	21	147	20	0.63	24.1	12	166	64	3.72	910	0.17	18	0.71	781	25	0.04	38	0.095	36	15	29	19	0.09	24	77	18	161

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
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CLIENT: *ROSEBUD EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP045123
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-398 0680-0700	0.3	0.95	12	3	77	3	1.64	0.7	5	17	13	2.36	20	0.23	58	0.14	686	5	0.05	21	0.05	24	< 2	120	10	< .01	< 5	12	< 2	69
97-398 0700-0720	0.3	0.66	10	< 3	57	3	1.14	1.1	1	6	6	1.75	30	0.23	71	0.08	668	18	0.04	6	0.02	35	< 2	100	14	< .01	< 5	4	< 2	101
97-398 0720-0740	< .3	0.59	7	< 3	39	4	1.18	0.6	< 1	3	4	1.78	35	0.22	76	0.05	837	17	0.04	2	0.014	34	< 2	89	16	0.01	< 5	2	< 2	100
97-398 0740-0760	< .3	0.58	8	< 3	58	2	0.88	0.7	< 1	3	5	1.64	30	0.25	78	0.04	607	6	0.04	2	0.013	34	< 2	77	15	< .01	5	1	< 2	79
97-398 0760-0780	< .3	0.57	4	< 3	80	3	0.75	0.4	< 1	3	4	1.32	35	0.24	76	0.03	508	5	0.04	1	0.012	24	< 2	69	16	< .01	< 5	1	< 2	57
97-398 0780-0800	0.3	0.36	6	< 3	77	2	0.73	< .2	< 1	3	7	1.29	35	0.24	75	0.02	395	4	0.05	1	0.013	25	< 2	67	16	0.01	< 5	1	< 2	52
97-398 0800-0820	0.4	0.29	7	< 3	43	< 2	0.76	0.2	< 1	3	4	1.09	85	0.25	70	0.02	324	4	0.05	2	0.012	27	2	66	16	0.01	< 5	1	< 2	31
97-398 0820-0840	< .3	0.28	4	< 3	42	< 2	0.75	0.3	< 1	2	3	1.04	20	0.22	71	0.01	386	1	0.05	1	0.011	22	< 2	72	16	0.01	< 5	1	< 2	25
97-398 0840-0860	< .3	0.29	8	< 3	106	< 2	0.75	< .2	< 1	3	3	1.28	20	0.21	74	0.01	659	1	0.05	1	0.01	16	2	72	16	< .01	< 5	1	< 2	37
97-398 0860-0880	< .3	0.23	15	< 3	53	< 2	0.64	0.2	< 1	3	4	1.63	25	0.18	73	0.03	616	1	0.04	1	0.011	12	< 2	64	15	< .01	< 5	1	< 2	51
97-398 0880-0900	< .3	0.23	17	< 3	90	4	0.82	< .2	< 1	3	3	1.77	25	0.19	67	0.03	713	1	0.04	2	0.01	13	< 2	66	14	< .01	12	1	< 2	49
97-398 0900-0920	< .3	0.24	18	< 3	139	< 2	0.82	< .2	< 1	4	4	1.63	20	0.17	67	0.02	703	1	0.04	3	0.01	16	< 2	73	14	< .01	< 5	1	< 2	46
97-398 0920-0940	< .3	0.27	13	< 3	152	< 2	1.03	< .2	< 1	4	4	1.74	25	0.18	64	0.02	633	1	0.05	2	0.009	17	< 2	79	15	< .01	< 5	1	< 2	24
97-398 0940-0960	< .3	0.32	6	< 3	97	2	1.22	< .2	< 1	4	3	1.75	20	0.22	67	0.02	572	2	0.04	2	0.01	24	< 2	99	16	0.01	5	1	3	24
97-398 0960-0980	< .3	0.34	3	< 3	82	< 2	0.96	< .2	< 1	4	3	1.25	15	0.24	65	0.02	387	2	0.04	1	0.01	20	< 2	98	16	0.01	< 5	1	2	49
97-398 0980-1000	< .3	0.36	< 2	< 3	85	< 2	0.79	< .2	< 1	4	3	1.22	15	0.24	69	0.02	276	2	0.04	2	0.01	20	< 2	99	17	0.01	< 5	1	< 2	59
97-398 1000-1020	0.3	0.49	2	< 3	36	< 2	0.86	< .2	< 1	5	5	1.28	25	0.27	69	0.02	310	2	0.04	2	0.01	24	< 2	81	18	< .01	< 5	2	< 2	69
97-398 1020-1040	0.3	0.51	4	< 3	55	3	0.61	< .2	< 1	4	5	1.54	20	0.26	62	0.02	442	2	0.04	2	0.009	25	< 2	65	16	< .01	< 5	1	< 2	61
97-398 1040-1060	< .3	0.57	4	< 3	34	< 2	0.67	< .2	< 1	4	4	1.53	25	0.3	68	0.02	525	2	0.04	2	0.009	21	< 2	81	17	< .01	< 5	1	< 2	74
97-398 1060-1080	< .3	0.67	4	< 3	72	3	0.72	< .2	< 1	7	4	1.94	20	0.26	69	0.02	806	3	0.04	3	0.01	23	< 2	88	17	< .01	< 5	1	< 2	74
97-398 1080-1100	0.3	0.61	2	< 3	95	< 2	0.83	1.1	< 1	5	4	1.67	15	0.26	63	0.02	756	3	0.04	2	0.009	25	< 2	88	15	< .01	< 5	2	< 2	86
STANDARD C3	6	1.94	58	21	154	24	0.61	25.1	11	163	65	3.57	940	0.16	19	0.69	767	25	0.04	36	0.095	34	14	30	20	0.09	16	77	16	160

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ANALYSIS REPORT SP045123

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SANTA FE PACIFIC GOLD

COPIES TO : BOB KASTELIC

: RICK LISLE

:

:

CLIENT REFERENCE No: 97-398 RECEIVED : 27 JUN 1997

No. SAMPLES : 220 REPORTED : 27 JUN 1997

MAIN SAMPLE TYPE : DRILL CUTTINGS

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.

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ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0000-0005	48		0.001		3.3	0.10
97-398 0005-0010	56		0.002		0.6	<0.02
97-398 0010-0015	90		0.003		1.8	0.05
97-398 0015-0020	67		0.002		1.3	0.04
97-398 0020-0025	218		0.006		1.7	0.05
97-398 0025-0030	47		0.001		1.6	0.05
97-398 0030-0035	103		0.003		1.8	0.05
97-398 0035-0040	194		0.006		1.0	0.03
97-398 0040-0045	156		0.005		1.2	0.04
97-398 0045-0050	492		0.014		1.2	0.04
97-398 0050-0055	149		0.004		2.4	0.07
97-398 0055-0060	101		0.003		1.7	0.05
97-398 0060-0065	230		0.007		3.1	0.09
97-398 0065-0070	1006		0.029		5.7	0.17
97-398 0070-0075	233		0.007		2.3	0.07
97-398 0075-0080	246		0.007		2.3	0.07
97-398 0080-0085	342		0.010		2.8	0.08
97-398 0085-0090	220		0.006		1.8	0.05
97-398 0090-0095	255	242	0.007	0.007	0.8	0.02
97-398 0095-0100	359		0.010		0.7	0.02
97-398 0100-0105	535		0.016	.016/15'	0.5	<0.02
97-398 0105-0110	736	738	0.021	0.022	1.0	0.03
97-398 0110-0115	81		0.002		<0.5	<0.02
97-398 0115-0120	90		0.003		0.7	0.02
97-398 0120-0125	66		0.002		0.8	0.02

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0125-0130	35		0.001		0.5	<0.02
97-398 0130-0135	26		<0.001		0.8	0.02
97-398 0135-0140	27		<0.001		0.7	0.02
97-398 0140-0145	44		0.001		1.3	0.04
97-398 0145-0150	56		0.002		1.0	0.03
97-398 0150-0155	42		0.001		1.2	0.04
97-398 0155-0160	49		0.001		1.2	0.04
97-398 0160-0165	52		0.002		1.1	0.03
97-398 0165-0170	211		0.006		1.3	0.04
97-398 0170-0175	93		0.003		1.1	0.03
97-398 0175-0180	159		0.005		1.2	0.04
97-398 0180-0185	106		0.003		1.3	0.04
97-398 0185-0190	65		0.002		1.2	0.04
97-398 0190-0195	116		0.003		1.7	0.05
97-398 0195-0200	38	48	0.001	0.001	0.8	0.02
97-398 0200-0205	22		<0.001		0.5	<0.02
97-398 0205-0210	18		<0.001		<0.5	<0.02
97-398 0210-0215	14		<0.001		0.6	<0.02
97-398 0215-0220	80		0.002		1.0	0.03
97-398 0220-0225	38	38	0.001	0.001	1.2	0.04
97-398 0225-0230	22		<0.001		0.5	<0.02
97-398 0230-0235	66		0.002		0.8	0.02
97-398 0235-0240	194	192	0.006	0.006	1.0	0.03
97-398 0240-0245	246		0.007		0.9	0.03
97-398 0245-0250	392		0.011		0.8	0.02

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ANALYSIS REPORT SP045123

American Assay Laboratories

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0250-0255	400		0.012		0.6	<0.02
97-398 0255-0260	286		0.008		0.9	0.03
97-398 0260-0265	28		<0.001		<0.5	<0.02
97-398 0265-0270	72		0.002		0.6	<0.02
97-398 0270-0275	98		0.003		0.5	<0.02
97-398 0275-0280	36		0.001		<0.5	<0.02
97-398 0280-0285	32		<0.001		0.6	<0.02
97-398 0285-0290	20		<0.001		<0.5	<0.02
97-398 0290-0295	<5		<0.001		<0.5	<0.02
97-398 0295-0300	<5		<0.001		<0.5	<0.02
97-398 0300-0305	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0305-0310	12		<0.001		<0.5	<0.02
97-398 0310-0315	<5		<0.001		<0.5	<0.02
97-398 0315-0320	86		0.003		<0.5	<0.02
97-398 0320-0325	32		<0.001		0.6	<0.02
97-398 0325-0330	30		<0.001		0.5	<0.02
97-398 0330-0335	96		0.003		0.6	<0.02
97-398 0335-0340	100		0.003		0.8	0.02
97-398 0340-0345	208		0.006		<0.5	<0.02
97-398 0345-0350	10		<0.001		<0.5	<0.02
97-398 0350-0355	<5		<0.001		<0.5	<0.02
97-398 0355-0360	<5		<0.001		<0.5	<0.02
97-398 0360-0365	<5		<0.001		<0.5	<0.02
97-398 0365-0370	<5		<0.001		<0.5	<0.02
97-398 0370-0375	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0375-0380	<5		<0.001		<0.5	<0.02
97-398 0380-0385	<5		<0.001		<0.5	<0.02
97-398 0385-0390	<5		<0.001		<0.5	<0.02
97-398 0390-0395	<5		<0.001		<0.5	<0.02
97-398 0395-0400	<5		<0.001		<0.5	<0.02
97-398 0400-0405	2308		0.067		1.4	0.04
97-398 0405-0410	30		<0.001		0.5	<0.02
97-398 0410-0415	56		0.002		<0.5	<0.02
97-398 0415-0420	41		0.001		<0.5	<0.02
97-398 0420-0425	62		0.002		<0.5	<0.02
97-398 0425-0430	<5		<0.001		<0.5	<0.02
97-398 0430-0435	<5		<0.001		<0.5	<0.02
97-398 0435-0440	<5		<0.001		<0.5	<0.02
97-398 0440-0445	<5		<0.001		<0.5	<0.02
97-398 0445-0450	<5		<0.001		<0.5	<0.02
97-398 0450-0455	<5		<0.001		<0.5	<0.02
97-398 0455-0460	<5		<0.001		<0.5	<0.02
97-398 0460-0465	<5		<0.001		<0.5	<0.02
97-398 0465-0470	<5		<0.001		<0.5	<0.02
97-398 0470-0475	<5		<0.001		<0.5	<0.02
97-398 0475-0480	<5		<0.001		<0.5	<0.02
97-398 0480-0485	<5		<0.001		<0.5	<0.02
97-398 0485-0490	<5		<0.001		<0.5	<0.02
97-398 0490-0495	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0495-0500	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

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REFERENCE : 97-398

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0500-0505	<5		<0.001		<0.5	<0.02
97-398 0505-0510	7		<0.001		<0.5	<0.02
97-398 0510-0515	<5		<0.001		<0.5	<0.02
97-398 0515-0520	18		<0.001		<0.5	<0.02
97-398 0520-0525	<5		<0.001		<0.5	<0.02
97-398 0525-0530	24	22	<0.001	<0.001	<0.5	<0.02
97-398 0530-0535	<5		<0.001		<0.5	<0.02
97-398 0535-0540	13		<0.001		<0.5	<0.02
97-398 0540-0545	<5		<0.001		<0.5	<0.02
97-398 0545-0550	<5		<0.001		<0.5	<0.02
97-398 0550-0555	<5		<0.001		<0.5	<0.02
97-398 0555-0560	<5		<0.001		<0.5	<0.02
97-398 0560-0565	<5		<0.001		<0.5	<0.02
97-398 0565-0570	91		0.003		<0.5	<0.02
97-398 0570-0575	27	16	<0.001	<0.001	<0.5	<0.02
97-398 0575-0580	<5		<0.001		<0.5	<0.02
97-398 0580-0585	<5		<0.001		<0.5	<0.02
97-398 0585-0590	61		0.002		<0.5	<0.02
97-398 0590-0595	<5		<0.001		<0.5	<0.02
97-398 0595-0600	<5		<0.001		<0.5	<0.02
97-398 0600-0605	<5		<0.001		<0.5	<0.02
97-398 0605-0610	<5		<0.001		<0.5	<0.02
97-398 0610-0615	<5		<0.001		<0.5	<0.02
97-398 0615-0620	<5		<0.001		<0.5	<0.02
97-398 0620-0625	<5		<0.001		<0.5	<0.02

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0625-0630	<5		<0.001		<0.5	<0.02
97-398 0630-0635	<5		<0.001		<0.5	<0.02
97-398 0635-0640	<5		<0.001		<0.5	<0.02
97-398 0640-0645	6		<0.001		<0.5	<0.02
97-398 0645-0650	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0650-0655	<5		<0.001		<0.5	<0.02
97-398 0655-0660	<5		<0.001		<0.5	<0.02
97-398 0660-0665	<5		<0.001		<0.5	<0.02
97-398 0665-0670	7		<0.001		<0.5	<0.02
97-398 0670-0675	<5		<0.001		<0.5	<0.02
97-398 0675-0680	<5		<0.001		<0.5	<0.02
97-398 0680-0685	<5		<0.001		<0.5	<0.02
97-398 0685-0690	<5		<0.001		<0.5	<0.02
97-398 0690-0695	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0695-0700	<5		<0.001		<0.5	<0.02
97-398 0700-0705	<5		<0.001		<0.5	<0.02
97-398 0705-0710	<5		<0.001		0.8	0.02
97-398 0710-0715	<5		<0.001		<0.5	<0.02
97-398 0715-0720	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0720-0725	<5		<0.001		<0.5	<0.02
97-398 0725-0730	<5		<0.001		<0.5	<0.02
97-398 0730-0735	<5		<0.001		<0.5	<0.02
97-398 0735-0740	<5		<0.001		<0.5	<0.02
97-398 0740-0745	<5		<0.001		<0.5	<0.02
97-398 0745-0750	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0750-0755	<5		<0.001		<0.5	<0.02
97-398 0755-0760	<5		<0.001		<0.5	<0.02
97-398 0760-0765	<5		<0.001		<0.5	<0.02
97-398 0765-0770	5		<0.001		<0.5	<0.02
97-398 0770-0775	<5		<0.001		<0.5	<0.02
97-398 0775-0780	<5		<0.001		<0.5	<0.02
97-398 0780-0785	<5		<0.001		<0.5	<0.02
97-398 0785-0790	<5		<0.001		<0.5	<0.02
97-398 0790-0795	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 0795-0800	<5		<0.001		<0.5	<0.02
97-398 0800-0805	<5		<0.001		<0.5	<0.02
97-398 0805-0810	<5		<0.001		<0.5	<0.02
97-398 0810-0815	<5		<0.001		<0.5	<0.02
97-398 0815-0820	<5		<0.001		<0.5	<0.02
97-398 0820-0825	<5		<0.001		<0.5	<0.02
97-398 0825-0830	<5		<0.001		<0.5	<0.02
97-398 0830-0835	<5		<0.001		<0.5	<0.02
97-398 0835-0840	<5		<0.001		<0.5	<0.02
97-398 0840-0845	<5		<0.001		<0.5	<0.02
97-398 0845-0850	<5		<0.001		<0.5	<0.02
97-398 0850-0855	<5		<0.001		<0.5	<0.02
97-398 0855-0860	<5		<0.001		<0.5	<0.02
97-398 0860-0865	<5		<0.001		<0.5	<0.02
97-398 0865-0870	<5		<0.001		<0.5	<0.02
97-398 0870-0875	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 0875-0880	<5		<0.001		<0.5	<0.02
97-398 0880-0885	<5		<0.001		<0.5	<0.02
97-398 0885-0890	<5		<0.001		<0.5	<0.02
97-398 0890-0895	<5		<0.001		<0.5	<0.02
97-398 0895-0900	<5		<0.001		<0.5	<0.02
97-398 0900-0905	<5		<0.001		<0.5	<0.02
97-398 0905-0910	<5		<0.001		<0.5	<0.02
97-398 0910-0915	<5		<0.001		<0.5	<0.02
97-398 0915-0920	<5		<0.001		<0.5	<0.02
97-398 0920-0925	<5		<0.001		<0.5	<0.02
97-398 0925-0930	<5		<0.001		<0.5	<0.02
97-398 0930-0935	<5		<0.001		<0.5	<0.02
97-398 0935-0940	<5		<0.001		<0.5	<0.02
97-398 0940-0945	<5		<0.001		<0.5	<0.02
97-398 0945-0950	<5		<0.001		<0.5	<0.02
97-398 0950-0955	<5		<0.001		<0.5	<0.02
97-398 0955-0960	<5		<0.001		<0.5	<0.02
97-398 0960-0965	<5		<0.001		<0.5	<0.02
97-398 0965-0970	<5		<0.001		<0.5	<0.02
97-398 0970-0975	<5		<0.001		<0.5	<0.02
97-398 0975-0980	<5		<0.001		<0.5	<0.02
97-398 0980-0985	<5		<0.001		<0.5	<0.02
97-398 0985-0990	<5		<0.001		<0.5	<0.02
97-398 0990-0995	<5		<0.001		<0.5	<0.02
97-398 0995-1000	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP045123

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-398

REPORTED : 27 JUN 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1000-1005	<5		<0.001		<0.5	<0.02
97-398 1005-1010	<5		<0.001		<0.5	<0.02
97-398 1010-1015	<5		<0.001		<0.5	<0.02
97-398 1015-1020	<5		<0.001		<0.5	<0.02
97-398 1020-1025	<5		<0.001		<0.5	<0.02
97-398 1025-1030	<5		<0.001		<0.5	<0.02
97-398 1030-1035	<5		<0.001		<0.5	<0.02
97-398 1035-1040	<5		<0.001		<0.5	<0.02
97-398 1040-1045	<5		<0.001		<0.5	<0.02
97-398 1045-1050	<5		<0.001		<0.5	<0.02
97-398 1050-1055	<5		<0.001		<0.5	<0.02
97-398 1055-1060	<5		<0.001		<0.5	<0.02
97-398 1060-1065	<5		<0.001		<0.5	<0.02
97-398 1065-1070	<5		<0.001		<0.5	<0.02
97-398 1070-1075	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1075-1080	<5		<0.001		<0.5	<0.02
97-398 1080-1085	<5		<0.001		<0.5	<0.02
97-398 1085-1090	<5		<0.001		<0.5	<0.02
97-398 1090-1095	<5		<0.001		<0.5	<0.02
97-398 1095-1100	<5	<5	<0.001	<0.001	<0.5	<0.02

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ANALYSIS REPORT SP046135

American Assay Laboratories

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NEWMONT GOLD COMPANY

COPIES TO : CHARLOTTE BALLEW
: RICK LISLE
: RANDY VANCE
: KURT ALLEN

CLIENT REFERENCE No: 97-398 RECEIVED : 27 AUG 1997

No. SAMPLES : 82 REPORTED : 27 AUG 1997

MAIN SAMPLE TYPE : DRILL CUTTINGS

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 SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1100-1105	<5		<0.001		<0.5	<0.02
97-398 1105-1110	<5		<0.001		<0.5	<0.02
97-398 1110-1115	<5		<0.001		<0.5	<0.02
97-398 1115-1120	<5		<0.001		<0.5	<0.02
97-398 1120-1125	<5		<0.001		<0.5	<0.02
97-398 1125-1130	<5		<0.001		<0.5	<0.02
97-398 1130-1135	<5		<0.001		<0.5	<0.02
97-398 1135-1140	<5		<0.001		<0.5	<0.02
97-398 1140-1145	<5		<0.001		<0.5	<0.02
97-398 1145-1150	144		0.004		<0.5	<0.02
97-398 1150-1155	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1155-1160	<5		<0.001		<0.5	<0.02
97-398 1160-1165	<5		<0.001		<0.5	<0.02
97-398 1165-1170	<5		<0.001		<0.5	<0.02
97-398 1170-1175	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1175-1180	<5		<0.001		<0.5	<0.02
97-398 1180-1185	<5		<0.001		<0.5	<0.02
97-398 1185-1190	<5		<0.001		<0.5	<0.02
97-398 1190.0-1194.5	<5		<0.001		<0.5	<0.02
97-398 1194.5-1200.0	<5		<0.001		<0.5	<0.02
97-398 1200.0-1204.5	<5		<0.001		<0.5	<0.02
97-398 1204.5-1210.0	<5		<0.001		<0.5	<0.02
97-398 1210.0-1214.5	<5		<0.001		<0.5	<0.02
97-398 1214.5-1220.0	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1220.0-1224.5	<5		<0.001		<0.5	<0.02

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ANALYSIS REPORT SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1224.5-1228.0	<5		<0.001		<0.5	<0.02
97-398 1228.0-1234.5	<5		<0.001		<0.5	<0.02
97-398 1234.5-1240.0	<5		<0.001		<0.5	<0.02
97-398 1240.0-1244.5	<5		<0.001		<0.5	<0.02
97-398 1244.5-1249.0	<5		<0.001		<0.5	<0.02
97-398 1249.0-1254.3	<5		<0.001		<0.5	<0.02
97-398 1254.3-1260.0	<5		<0.001		<0.5	<0.02
97-398 1260.0-1264.6	<5		<0.001		<0.5	<0.02
97-398 1264.6-1270.0	<5		<0.001		<0.5	<0.02
97-398 1270.0-1274.6	46		0.001		<0.5	<0.02
97-398 1274.6-1280.0	1484		0.043		1.3	0.04
97-398 1280.0-1284.6	10		<0.001		<0.5	<0.02
97-398 1284.6-1290.0	<5		<0.001		<0.5	<0.02
97-398 1290.0-1294.6	<5		<0.001		<0.5	<0.02
97-398 1294.6-1300.0	<5		<0.001		<0.5	<0.02
97-398 1300.0-1304.6	<5		<0.001		<0.5	<0.02
97-398 1304.6-1310.0	<5		<0.001		<0.5	<0.02
97-398 1310.0-1314.6	<5		<0.001		<0.5	<0.02
97-398 1314.6-1320.0	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1320.0-1324.6	<5		<0.001		<0.5	<0.02
97-398 1324.6-1330.0	<5		<0.001		<0.5	<0.02
97-398 1330.0-1334.5	8		<0.001		<0.5	<0.02
97-398 1334.5-1340.0	16		<0.001		<0.5	<0.02
97-398 1340.0-1344.5	8		<0.001		<0.5	<0.02
97-398 1344.5-1350.9	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1350.9-1353.0	<5		<0.001		<0.5	<0.02
97-398 1353.0-1354.5	52		0.002		1.6	0.05
97-398 1354.5-1358.5	56		0.002		0.9	0.03
97-398 1358.5-1359.7	60		0.002		3.5	0.10
97-398 1359.7-1362.5	78		0.002		4.3	0.13
97-398 1362.5-1364.5	24		<0.001		3.1	0.09
97-398 1364.5-1366.5	60		0.002		1.9	0.06
97-398 1366.5-1370.5	18		<0.001		0.8	0.02
97-398 1370.5-1372.5	17		<0.001		1.3	0.04
97-398 1372.5-1373.4	12		<0.001		6.1	0.18
97-398 1373.4-1374.5	<5		<0.001		1.2	0.04
97-398 1374.5-1377.4	14		<0.001		0.6	<0.02
97-398 1377.4-1378.3	76		0.002		6.7	0.20
97-398 1378.3-1380.0	<5		<0.001		<0.5	<0.02
97-398 1380-1385	14		<0.001		0.7	0.02
97-398 1385.0-1390.5	68		0.002		1.7	0.05
97-398 1390.5-1395.4	12		<0.001		1.5	0.04
97-398 1395.4-1400.0	10		<0.001		1.1	0.03
97-398 1400.0-1405.1	<5		<0.001		1.0	0.03
97-398 1405.1-1410.1	48		0.001		1.8	0.05
97-398 1410.1-1414.5	<5		<0.001		<0.5	<0.02
97-398 1414.5-1418.0	48		0.001		0.8	0.02
97-398 1418.0-1420.9	<5		<0.001		1.1	0.03
97-398 1420.9-1426.1	<5		<0.001		1.3	0.04
97-398 1426.1-1430.0	<5		<0.001		1.3	0.04

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1430-1433	<5	<5	<0.001	<0.001	0.9	0.03
97-398 1433.0-1439.5	<5		<0.001		0.7	0.02
97-398 1439.5-1445.7	62		0.002		1.4	0.04
97-398 1445.7-1451.7	<5		<0.001		0.9	0.03
97-398 1451.7-1456.0	<5		<0.001		0.6	<0.02
97-398 1456-1461	<5		<0.001		1.3	0.04
97-398 1463.2-1465.0	<5		<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	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
	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	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.

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ANALYSIS REPORT SP046135

American Assay Laboratories

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NEWMONT GOLD COMPANY

COPIES TO : CHARLOTTE BALLEW
: RICK LISLE
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CLIENT REFERENCE No: 97-398 RECEIVED : 27 AUG 1997

No. SAMPLES : 82 REPORTED : 27 AUG 1997

MAIN SAMPLE TYPE : DRILL CUTTINGS

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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 SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1100-1105	<5		<0.001		<0.5	<0.02
97-398 1105-1110	<5		<0.001		<0.5	<0.02
97-398 1110-1115	<5		<0.001		<0.5	<0.02
97-398 1115-1120	<5		<0.001		<0.5	<0.02
97-398 1120-1125	<5		<0.001		<0.5	<0.02
97-398 1125-1130	<5		<0.001		<0.5	<0.02
97-398 1130-1135	<5		<0.001		<0.5	<0.02
97-398 1135-1140	<5		<0.001		<0.5	<0.02
97-398 1140-1145	<5		<0.001		<0.5	<0.02
97-398 1145-1150	144		0.004		<0.5	<0.02
97-398 1150-1155	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1155-1160	<5		<0.001		<0.5	<0.02
97-398 1160-1165	<5		<0.001		<0.5	<0.02
97-398 1165-1170	<5		<0.001		<0.5	<0.02
97-398 1170-1175	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1175-1180	<5		<0.001		<0.5	<0.02
97-398 1180-1185	<5		<0.001		<0.5	<0.02
97-398 1185-1190	<5		<0.001		<0.5	<0.02
97-398 1190.0-1194.5	<5		<0.001		<0.5	<0.02
97-398 1194.5-1200.0	<5		<0.001		<0.5	<0.02
97-398 1200.0-1204.5	<5		<0.001		<0.5	<0.02
97-398 1204.5-1210.0	<5		<0.001		<0.5	<0.02
97-398 1210.0-1214.5	<5		<0.001		<0.5	<0.02
97-398 1214.5-1220.0	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1220.0-1224.5	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046135

American Assay Laboratories

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PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1224.5-1228.0	<5		<0.001		<0.5	<0.02
97-398 1228.0-1234.5	<5		<0.001		<0.5	<0.02
97-398 1234.5-1240.0	<5		<0.001		<0.5	<0.02
97-398 1240.0-1244.5	<5		<0.001		<0.5	<0.02
97-398 1244.5-1249.0	<5		<0.001		<0.5	<0.02
97-398 1249.0-1254.3	<5		<0.001		<0.5	<0.02
97-398 1254.3-1260.0	<5		<0.001		<0.5	<0.02
97-398 1260.0-1264.6	<5		<0.001		<0.5	<0.02
97-398 1264.6-1270.0	<5		<0.001		<0.5	<0.02
97-398 1270.0-1274.6	46		0.001		<0.5	<0.02
97-398 1274.6-1280.0	1484		0.043		1.3	0.04
97-398 1280.0-1284.6	10		<0.001		<0.5	<0.02
97-398 1284.6-1290.0	<5		<0.001		<0.5	<0.02
97-398 1290.0-1294.6	<5		<0.001		<0.5	<0.02
97-398 1294.6-1300.0	<5		<0.001		<0.5	<0.02
97-398 1300.0-1304.6	<5		<0.001		<0.5	<0.02
97-398 1304.6-1310.0	<5		<0.001		<0.5	<0.02
97-398 1310.0-1314.6	<5		<0.001		<0.5	<0.02
97-398 1314.6-1320.0	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1320.0-1324.6	<5		<0.001		<0.5	<0.02
97-398 1324.6-1330.0	<5		<0.001		<0.5	<0.02
97-398 1330.0-1334.5	8		<0.001		<0.5	<0.02
97-398 1334.5-1340.0	16		<0.001		<0.5	<0.02
97-398 1340.0-1344.5	8		<0.001		<0.5	<0.02
97-398 1344.5-1350.9	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1350.9-1353.0	<5		<0.001		<0.5	<0.02
97-398 1353.0-1354.5	52		0.002		1.6	0.05
97-398 1354.5-1358.5	56		0.002		0.9	0.03
97-398 1358.5-1359.7	60		0.002		3.5	0.10
97-398 1359.7-1362.5	78		0.002		4.3	0.13
97-398 1362.5-1364.5	24		<0.001		3.1	0.09
97-398 1364.5-1366.5	60		0.002		1.9	0.06
97-398 1366.5-1370.5	18		<0.001		0.8	0.02
97-398 1370.5-1372.5	17		<0.001		1.3	0.04
97-398 1372.5-1373.4	12		<0.001		6.1	0.18
97-398 1373.4-1374.5	<5		<0.001		1.2	0.04
97-398 1374.5-1377.4	14		<0.001		0.6	<0.02
97-398 1377.4-1378.3	76		0.002		6.7	0.20
97-398 1378.3-1380.0	<5		<0.001		<0.5	<0.02
97-398 1380-1385	14		<0.001		0.7	0.02
97-398 1385.0-1390.5	68		0.002		1.7	0.05
97-398 1390.5-1395.4	12		<0.001		1.5	0.04
97-398 1395.4-1400.0	10		<0.001		1.1	0.03
97-398 1400.0-1405.1	<5		<0.001		1.0	0.03
97-398 1405.1-1410.1	48		0.001		1.8	0.05
97-398 1410.1-1414.5	<5		<0.001		<0.5	<0.02
97-398 1414.5-1418.0	48		0.001		0.8	0.02
97-398 1418.0-1420.9	<5		<0.001		1.1	0.03
97-398 1420.9-1426.1	<5		<0.001		1.3	0.04
97-398 1426.1-1430.0	<5		<0.001		1.3	0.04

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1430-1433	<5	<5	<0.001	<0.001	0.9	0.03
97-398 1433.0-1439.5	<5		<0.001		0.7	0.02
97-398 1439.5-1445.7	62		0.002		1.4	0.04
97-398 1445.7-1451.7	<5		<0.001		0.9	0.03
97-398 1451.7-1456.0	<5		<0.001		0.6	<0.02
97-398 1456-1461	<5		<0.001		1.3	0.04
97-398 1463.2-1465.0	<5		<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	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
	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	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.

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

CLIENT: *NEWMONT EXPLORATION Ltd.*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046135
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-398 1100-1120	< .3	0.6	4	4	98	< 3	0.74	0.4	1	3	6	1.72	15	0.26	63	0.02	692	6	0.05	1	0.009	30	< 3	80	16	< .01	< 8	1	< 2	93
97-398 1120-1140	< .3	0.64	2	3	162	4	0.72	< .2	1	2	5	1.85	< 10	0.23	64	0.02	792	5	0.05	1	0.008	27	< 3	73	15	< .01	< 8	< 1	< 2	69
97-398 1140-1160	< .3	0.66	< 2	< 3	53	5	0.61	< .2	1	2	5	2.02	< 10	0.25	65	0.03	905	3	0.06	1	0.009	28	< 3	66	14	< .01	< 8	1	< 2	73
97-398 1160-1180	< .3	0.7	< 2	< 3	32	< 3	0.66	< .2	1	2	4	1.99	< 10	0.25	68	0.03	837	2	0.06	< 1	0.01	25	< 3	65	15	< .01	< 8	1	< 2	68
97-398 1180-1200	< .3	0.72	5	3	17	4	0.68	0.3	< 1	4	7	2.12	15	0.27	63	0.02	615	2	0.07	2	0.01	22	< 3	66	16	< .01	< 8	1	< 2	65
97-398 1200-1220	< .3	0.58	4	< 3	67	4	0.55	< .2	1	5	8	2.09	25	0.26	71	0.02	792	8	0.07	2	0.01	22	< 3	49	17	< .01	< 8	1	< 2	56
97-398 1220-1240	< .3	0.95	3	3	17	< 3	0.77	< .2	1	4	7	2.97	15	0.23	58	0.03	1723	21	0.06	1	0.011	26	< 3	40	13	< .01	< 8	1	< 2	92
97-398 1240-1260	< .3	1.03	2	< 3	14	< 3	1.16	< .2	< 1	2	7	2.72	20	0.28	55	0.06	762	3	0.04	< 1	0.013	33	< 3	62	12	< .01	< 8	1	< 2	92
97-398 1260-1280	0.5	0.86	15	< 3	39	< 3	0.96	< .2	1	3	10	2.86	10	0.22	47	0.04	3093	3	0.05	2	0.008	23	< 3	49	11	< .01	< 8	1	< 2	74
97-398 1280-1300	< .3	0.61	2	3	17	< 3	0.92	< .2	< 1	3	5	2.06	< 10	0.21	48	0.02	1109	1	0.05	3	0.008	23	< 3	53	12	< .01	< 8	1	< 2	46
97-398 1300-1320	0.4	0.57	5	3	17	< 3	0.91	< .2	1	3	8	1.77	< 10	0.23	57	0.02	696	1	0.05	< 1	0.008	26	< 3	55	15	< .01	< 8	1	< 2	55
97-398 1320-1340	< .3	0.71	19	< 3	124	< 3	1.17	0.2	1	3	17	1.96	< 10	0.21	45	0.07	1115	5	0.04	2	0.007	29	4	99	11	< .01	< 8	1	< 2	74
97-398 1340.0-1354.5	0.4	0.54	27	3	53	< 3	6.6	0.3	1	2	70	1.62	20	0.18	23	0.06	2050	16	0.02	1	0.004	15	< 3	297	5	< .01	< 8	1	< 2	69
97-398 1354.5-1364.5	2.5	0.75	101	5	37	< 3	1.36	< .2	< 1	2	9	2.44	65	0.37	38	0.04	498	177	0.02	< 1	0.005	28	7	144	9	< .01	< 8	< 1	< 2	67
97-398 1364.5-1373.4	2.1	0.66	35	< 3	53	< 3	2.08	< .2	1	2	2	1.32	155	0.32	48	0.04	865	139	0.02	1	0.008	26	7	198	13	< .01	< 8	1	< 2	75
97-398 1373.4-1380.0	1.8	0.79	66	4	34	< 3	1.9	< .2	< 1	1	2	2.22	95	0.35	34	0.05	792	121	0.02	3	0.008	29	8	196	9	< .01	< 8	1	< 2	49
97-398 1380-1400	0.9	0.84	63	< 3	64	< 3	1.8	< .2	1	2	5	1.41	65	0.38	50	0.05	985	48	0.02	1	0.007	23	5	135	12	< .01	< 8	< 1	< 2	56
97-398 1400-1418	0.8	0.67	67	< 3	61	4	2.64	0.2	1	1	44	1.6	40	0.27	42	0.05	876	40	0.02	< 1	0.006	30	5	238	11	< .01	< 8	< 1	< 2	73
97-398 1418-1433	0.8	0.28	35	3	56	5	9.59	4.2	5	5	38	1.92	40	0.14	3	0.46	617	31	0.01	48	0.069	13	8	634	2	< .01	< 8	11	< 2	340
97-398 1433-1456	0.6	0.23	50	< 3	62	< 3	8.11	3.6	4	5	29	2.02	20	0.12	3	0.33	443	23	0.01	43	0.075	4	9	479	2	< .01	< 8	8	< 2	292
97-398 1456-1465	0.8	0.26	34	5	95	< 3	10.03	0.8	6	4	36	2.48	30	0.13	3	0.7	446	27	0.01	53	0.087	10	10	564	2	< .01	< 8	7	< 2	96
STANDARD C3	5.5	1.98	53	19	144	26	0.61	23.6	12	175	66	3.55	1000	0.17	19	0.63	769	26	0.04	32	0.09	40	16	31	19	0.1	24	84	23	165

WELLBORE NAVIGATION, INC.
TUSTIN, CALIFORNIA

JOB NUMBER: 29-0521-311 WELL NAME: 97-398 / VERTICAL

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
50.0	50.00	0.04	0.072	-89.81	326.52	0.07 N	0.05 W	0.38	0.19	0.08	AT 326.52
100.0	100.00	0.08	0.637	-88.87	356.26	0.63 N	0.12 W	1.94	0.97	0.64	AT 348.90
150.0	149.98	0.22	1.684	-88.69	342.06	1.67 N	0.33 W	0.70	0.35	1.70	AT 348.74
200.0	199.98	0.48	2.636	-89.05	339.57	2.60 N	0.65 W	0.73	0.36	2.68	AT 345.90
250.0	249.97	0.77	3.337	-89.20	326.96	3.28 N	0.99 W	0.49	0.24	3.42	AT 343.24
300.0	299.96	1.17	3.882	-89.23	311.78	3.80 N	1.43 W	0.42	0.21	4.06	AT 339.38
350.0	349.96	1.68	4.289	-89.27	297.92	4.17 N	1.96 W	0.37	0.19	4.61	AT 334.81
400.0	399.95	2.79	4.413	-88.07	263.23	4.22 N	3.08 W	2.79	1.39	5.22	AT 323.89
450.0	449.91	4.71	4.336	-87.53	264.47	4.02 N	4.99 W	1.08	0.54	6.40	AT 308.84
500.0	499.85	7.21	4.273	-86.73	264.99	3.79 N	7.48 W	1.60	0.80	8.38	AT 296.86
550.0	549.75	10.32	4.118	-86.13	261.97	3.43 N	10.57 W	1.26	0.63	11.11	AT 287.96
600.0	599.62	13.88	3.853	-85.69	261.92	2.93 N	14.10 W	0.88	0.44	14.40	AT 281.73
650.0	649.47	17.78	3.519	-85.33	260.76	2.34 N	17.97 W	0.74	0.37	18.12	AT 277.41
700.0	699.31	21.75	3.106	-85.50	259.75	1.66 N	21.91 W	0.38	0.19	21.97	AT 274.34
750.0	749.17	25.42	2.712	-86.04	260.46	1.03 N	25.54 W	1.09	0.54	25.56	AT 272.30
800.0	799.06	28.75	2.339	-86.27	259.15	0.43 N	28.84 W	0.49	0.25	28.85	AT 270.86
850.0	848.96	31.84	1.944	-86.58	258.66	0.17 S	31.90 W	0.62	0.31	31.90	AT 269.70
900.0	898.87	34.78	1.526	-86.62	257.56	0.78 S	34.80 W	0.15	0.08	34.81	AT 268.72
950.0	948.79	37.63	1.070	-86.75	256.66	1.42 S	37.62 W	0.28	0.14	37.65	AT 267.84
1000.0	998.72	40.29	0.668	-87.10	258.66	2.00 S	40.24 W	0.73	0.37	40.29	AT 267.16
1100.0	1098.59	45.30	0.004	-87.10	258.67	2.99 S	45.20 W	0.00	0.00	45.30	AT 266.21

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*************************************************************
*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  1100.0 FEET EQUALS    45.30   FEET AT  266.21            *
*                          ********                         *
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Geo.

WELLBORE NAVIGATION, INC.
TUSTIN, CALIFORNIA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

Entrid

****
* NEWMONT ROSEBUD *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97-398 / VERTICAL

LOCATION: ROSEBUD

SURVEY DATE: 6-25-97

SURVEY ENGINEER: KENT CHILD

GYRO REFERENCE BEARING: TRUE NORTH

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

COMMENTS: EKLUND DRILLING
JOHN WELCH
PROJECTED F/1000 T/1100
SILT IN PIPE AT 1000

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

WELLBORE NAVIGATION, INC.
TUSTIN, CALIFORNIA

JOB NUMBER: 29-0521-311 WELL NAME: 97398P / S-N SECTION

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
50.0	50.00	0.07	-0.046	-89.81	326.52	0.07 N	0.05 W	0.38	0.19	0.08	AT 326.52
100.0	100.00	0.63	-0.124	-88.87	356.26	0.63 N	0.12 W	1.94	0.97	0.64	AT 348.90
150.0	149.98	1.67	-0.332	-88.69	342.06	1.67 N	0.33 W	0.70	0.35	1.70	AT 348.74
200.0	199.98	2.60	-0.653	-89.05	339.57	2.60 N	0.65 W	0.73	0.36	2.68	AT 345.90
250.0	249.97	3.28	-0.987	-89.20	326.96	3.28 N	0.99 W	0.49	0.24	3.42	AT 343.24
300.0	299.96	3.80	-1.428	-89.23	311.78	3.80 N	1.43 W	0.42	0.21	4.06	AT 339.38
350.0	349.96	4.17	-1.960	-89.27	297.92	4.17 N	1.96 W	0.37	0.19	4.61	AT 334.81
400.0	399.95	4.22	-3.078	-88.07	263.23	4.22 N	3.08 W	2.79	1.39	5.22	AT 323.89
450.0	449.91	4.02	-4.986	-87.53	264.47	4.02 N	4.99 W	1.08	0.54	6.40	AT 308.84
500.0	499.85	3.79	-7.479	-86.73	264.99	3.79 N	7.48 W	1.60	0.80	8.38	AT 296.86
550.0	549.75	3.43	-10.571	-86.13	261.97	3.43 N	10.57 W	1.26	0.63	11.11	AT 287.96
600.0	599.62	2.93	-14.102	-85.69	261.92	2.93 N	14.10 W	0.88	0.44	14.40	AT 281.73
650.0	649.47	2.34	-17.971	-85.33	260.76	2.34 N	17.97 W	0.74	0.37	18.12	AT 277.41
700.0	699.31	1.66	-21.910	-85.50	259.75	1.66 N	21.91 W	0.38	0.19	21.97	AT 274.34
750.0	749.17	1.03	-25.543	-86.04	260.46	1.03 N	25.54 W	1.09	0.54	25.56	AT 272.30
800.0	799.06	0.43	-28.843	-86.27	259.15	0.43 N	28.84 W	0.49	0.25	28.85	AT 270.86
850.0	848.96	-0.17	-31.903	-86.58	258.66	0.17 S	31.90 W	0.62	0.31	31.90	AT 269.70
900.0	898.87	-0.78	-34.804	-86.62	257.56	0.78 S	34.80 W	0.15	0.08	34.81	AT 268.72
950.0	948.79	-1.42	-37.623	-86.75	256.66	1.42 S	37.62 W	0.28	0.14	37.65	AT 267.84
1000.0	998.72	-2.00	-40.242	-87.10	258.66	2.00 S	40.24 W	0.73	0.37	40.29	AT 267.16
1100.0	1098.59	-2.99	-45.202	-87.10	258.67	2.99 S	45.20 W	0.00	0.00	45.30	AT 266.21

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*************************************************************
*                        ********                           *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                        ********                           *
*  1100.0 FEET EQUALS    45.30   FEET AT  266.21            *
*                        ********                           *
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WELLBORE NAVIGATION, INC.
TUSTIN, CALIFORNIA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT ROSEBUD *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97398P / S-N SECTION

LOCATION: ROSEBUD

SURVEY DATE: 6-25-97

SURVEY ENGINEER: KENT CHILD

GYRO REFERENCE BEARING: TRUE NORTH

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 000.00

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

COMMENTS: EKLUND DRILLING
JOHN WELCH
PROJECTED F/1000 T/1100
SILT IN PIPE AT 1000

****
*** 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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**
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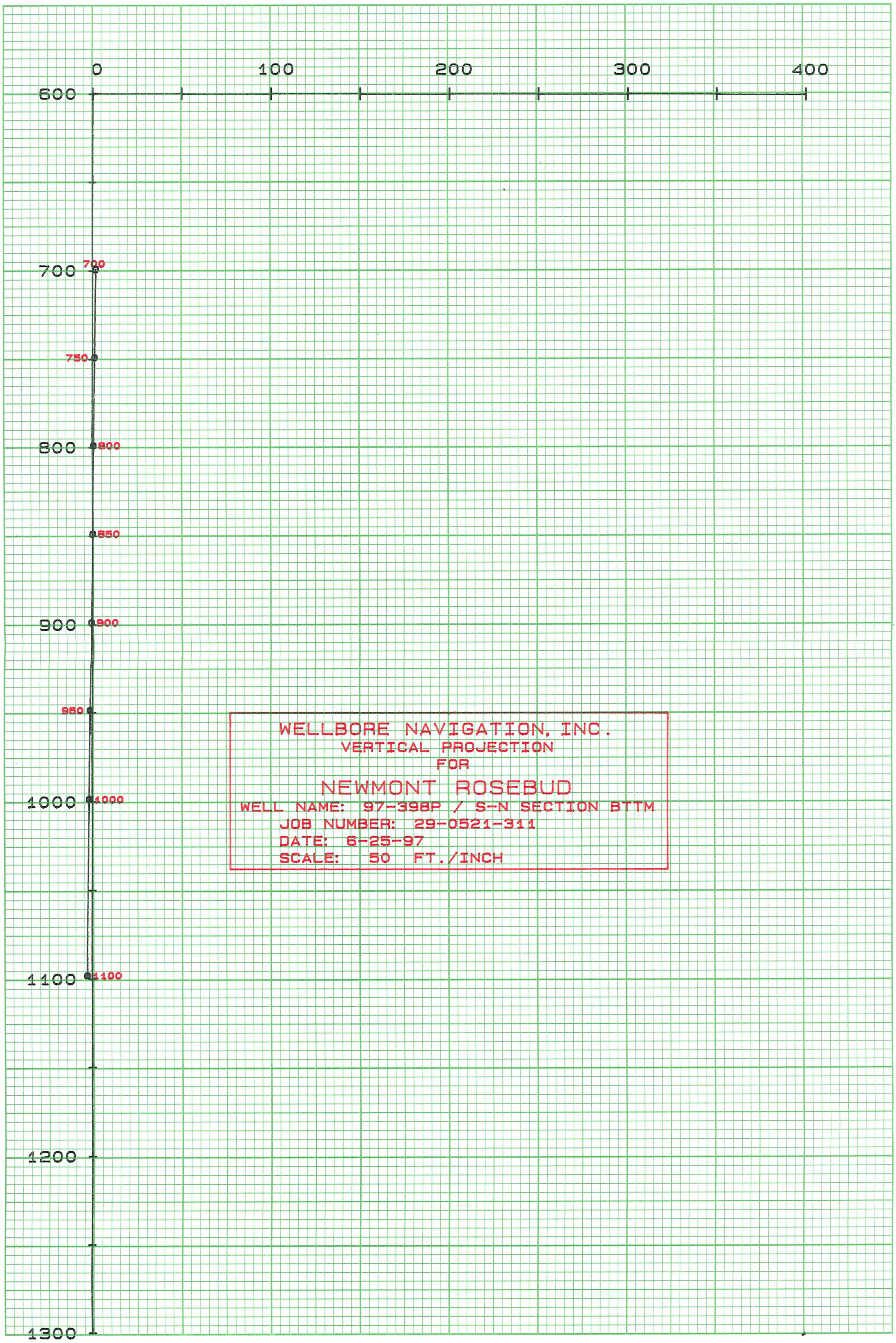
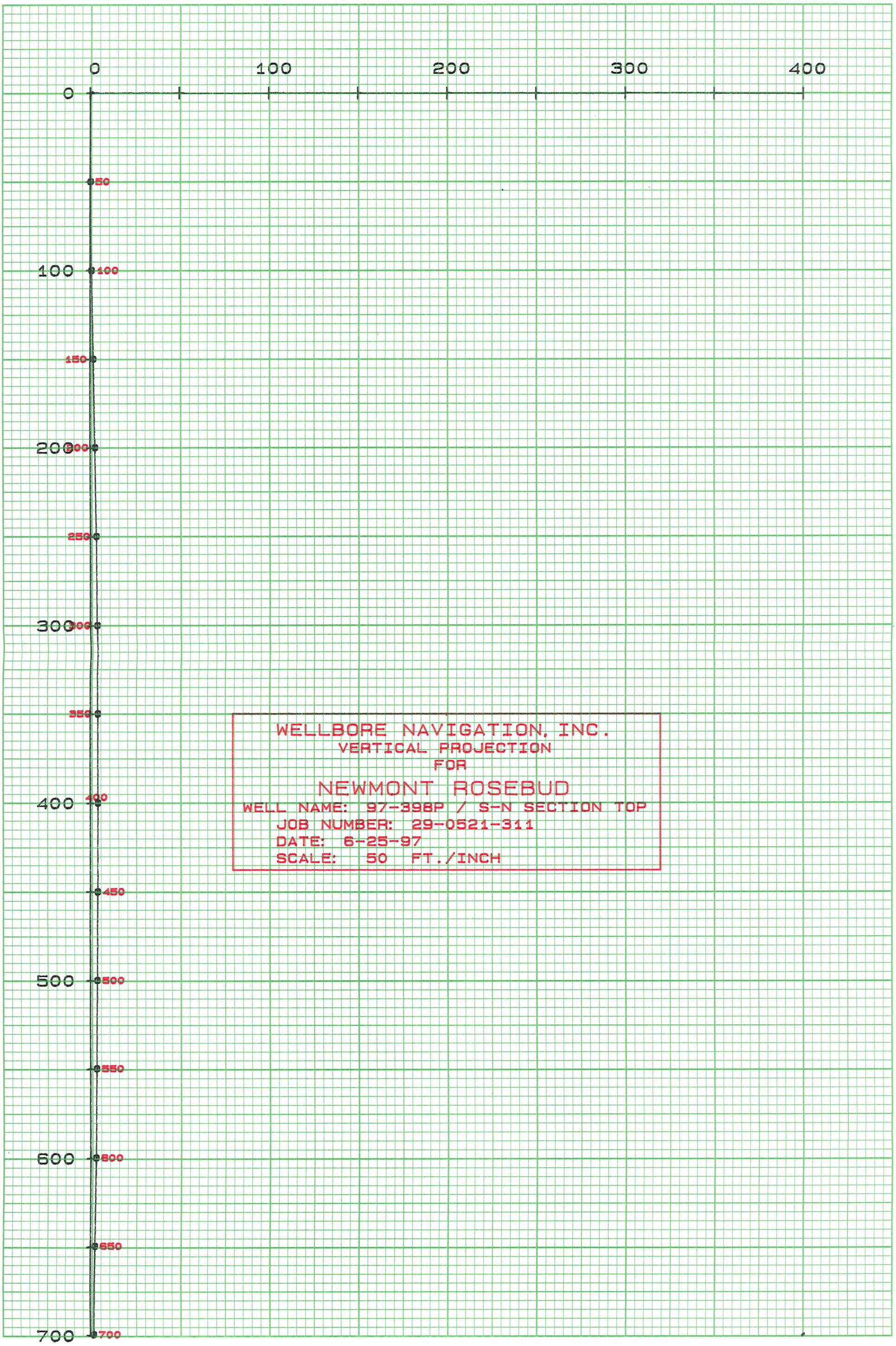


CK PRINTING CENTER (801) 467-2841



WELLBORE NAVIGATION, INC.
TUSTIN, CALIFORNIA

JOB NUMBER: 29-0521-311 WELL NAME: 97398P / W-E SECTION

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
50.0	50.00	-0.05	-0.069	-89.81	326.52	0.07 N	0.05 W	0.38	0.19	0.08	AT 326.52
100.0	100.00	-0.12	-0.630	-88.87	356.26	0.63 N	0.12 W	1.94	0.97	0.64	AT 348.90
150.0	149.98	-0.33	-1.666	-88.69	342.06	1.67 N	0.33 W	0.70	0.35	1.70	AT 348.74
200.0	199.98	-0.65	-2.598	-89.05	339.57	2.60 N	0.65 W	0.73	0.36	2.68	AT 345.90
250.0	249.97	-0.99	-3.279	-89.20	326.96	3.28 N	0.99 W	0.49	0.24	3.42	AT 343.24
300.0	299.96	-1.43	-3.796	-89.23	311.78	3.80 N	1.43 W	0.42	0.21	4.06	AT 339.38
350.0	349.96	-1.96	-4.169	-89.27	297.92	4.17 N	1.96 W	0.37	0.19	4.61	AT 334.81
400.0	399.95	-3.08	-4.219	-88.07	263.23	4.22 N	3.08 W	2.79	1.39	5.22	AT 323.89
450.0	449.91	-4.99	-4.016	-87.53	264.47	4.02 N	4.99 W	1.08	0.54	6.40	AT 308.84
500.0	499.85	-7.48	-3.787	-86.73	264.99	3.79 N	7.48 W	1.60	0.80	8.38	AT 296.86
550.0	549.75	-10.57	-3.427	-86.13	261.97	3.43 N	10.57 W	1.26	0.63	11.11	AT 287.96
600.0	599.62	-14.10	-2.927	-85.69	261.92	2.93 N	14.10 W	0.88	0.44	14.40	AT 281.73
650.0	649.47	-17.97	-2.337	-85.33	260.76	2.34 N	17.97 W	0.74	0.37	18.12	AT 277.41
700.0	699.31	-21.91	-1.661	-85.50	259.75	1.66 N	21.91 W	0.38	0.19	21.97	AT 274.34
750.0	749.17	-25.54	-1.026	-86.04	260.46	1.03 N	25.54 W	1.09	0.54	25.56	AT 272.30
800.0	799.06	-28.84	-0.434	-86.27	259.15	0.43 N	28.84 W	0.49	0.25	28.85	AT 270.86
850.0	848.96	-31.90	0.165	-86.58	258.66	0.17 S	31.90 W	0.62	0.31	31.90	AT 269.70
900.0	898.87	-34.80	0.776	-86.62	257.56	0.78 S	34.80 W	0.15	0.08	34.81	AT 268.72
950.0	948.79	-37.62	1.420	-86.75	256.66	1.42 S	37.62 W	0.28	0.14	37.65	AT 267.84
1000.0	998.72	-40.24	1.996	-87.10	258.66	2.00 S	40.24 W	0.73	0.37	40.29	AT 267.16
1100.0	1098.59	-45.20	2.991	-87.10	258.67	2.99 S	45.20 W	0.00	0.00	45.30	AT 266.21

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*************************************************************
*                         ********                          *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                         ********                          *
*  1100.0 FEET EQUALS     45.30   FEET AT  266.21           *
*                         ********                          *
*************************************************************
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WELLBORE NAVIGATION, INC.
TUSTIN, CALIFORNIA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT ROSEBUD *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97398P / W-E SECTION

LOCATION: ROSEBUD

SURVEY DATE: 6-25-97

SURVEY ENGINEER: KENT CHILD

GYRO REFERENCE BEARING: TRUE NORTH

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 090.00

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

COMMENTS: EKLUND DRILLING
JOHN WELCH
PROJECTED F/1000 T/1100
SILT IN PIPE AT 1000

****
*** 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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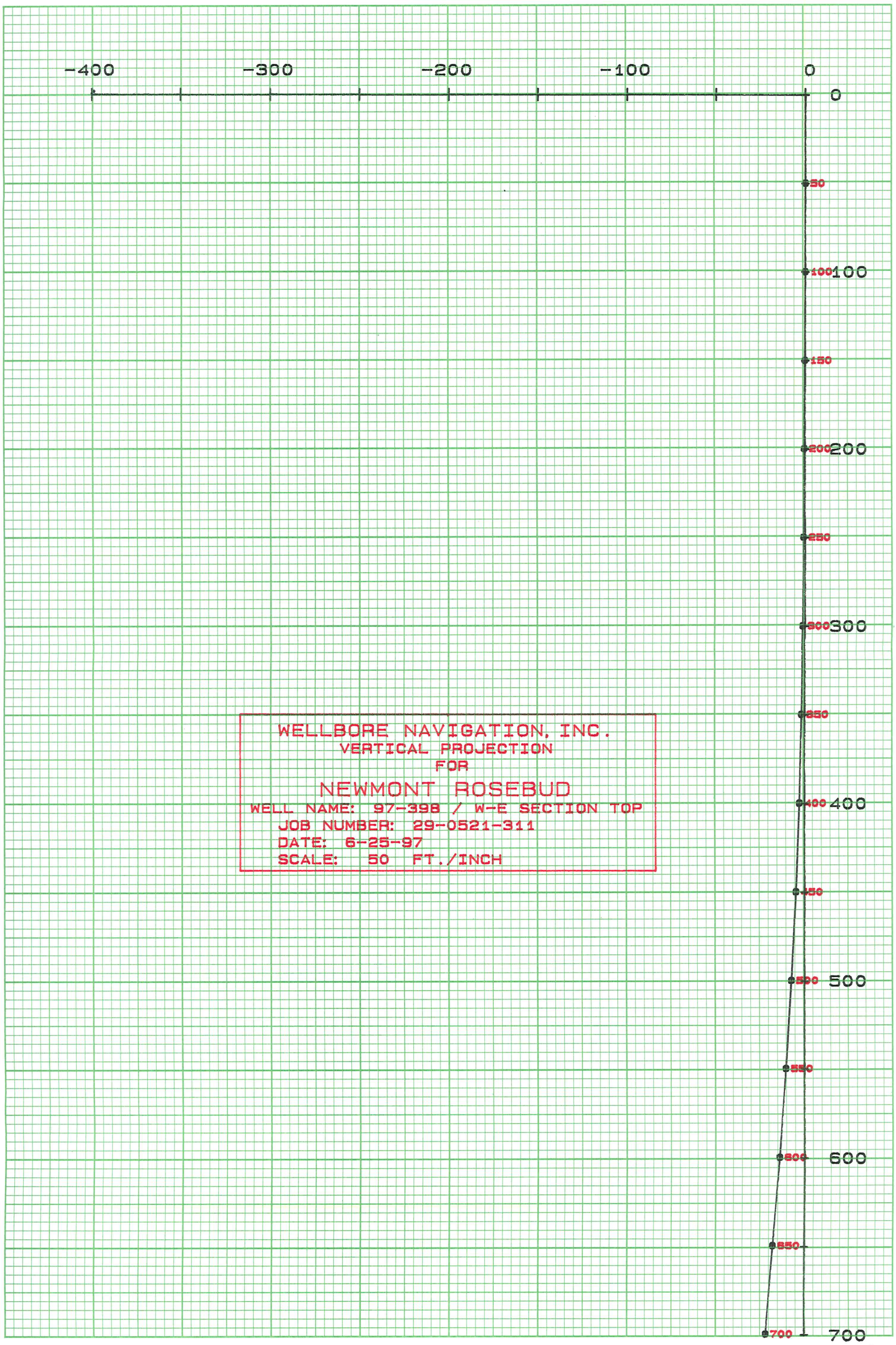
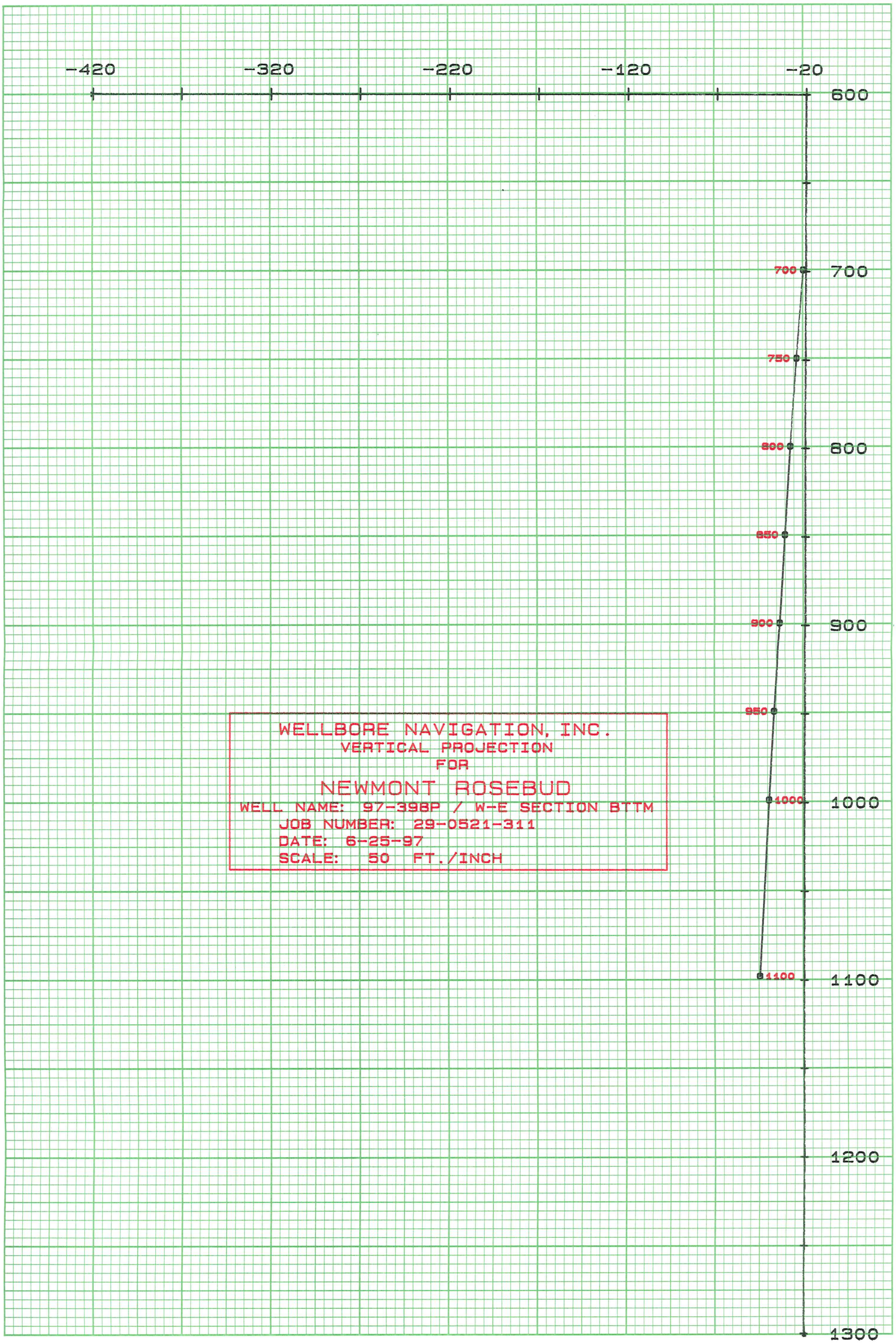


CK PRINTING CENTER (801) 467-2841



WELLBORE NAVIGATION, INC.
ELKO, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: 97-398 / VERTICAL

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
50.0	50.00	0.04	0.072	-89.81	326.52	0.07 N	0.05 W	0.38	0.19	0.08	AT 326.52
100.0	100.00	0.08	0.637	-88.87	356.26	0.63 N	0.12 W	1.94	0.97	0.64	AT 348.90
150.0	149.98	0.22	1.684	-88.69	342.06	1.67 N	0.33 W	0.70	0.35	1.70	AT 348.74
200.0	199.98	0.48	2.636	-89.05	339.57	2.60 N	0.65 W	0.73	0.36	2.68	AT 345.90
250.0	249.97	0.77	3.337	-89.20	326.96	3.28 N	0.99 W	0.49	0.24	3.42	AT 343.24
300.0	299.96	1.17	3.882	-89.23	311.78	3.80 N	1.43 W	0.42	0.21	4.06	AT 339.38
350.0	349.96	1.68	4.289	-89.27	297.92	4.17 N	1.96 W	0.37	0.19	4.61	AT 334.81
400.0	399.95	2.79	4.413	-88.07	263.23	4.22 N	3.08 W	2.79	1.39	5.22	AT 323.89
450.0	449.91	4.71	4.336	-87.53	264.47	4.02 N	4.99 W	1.08	0.54	6.40	AT 308.84
500.0	499.85	7.21	4.273	-86.73	264.99	3.79 N	7.48 W	1.60	0.80	8.38	AT 296.86
550.0	549.75	10.32	4.118	-86.13	261.97	3.43 N	10.57 W	1.26	0.63	11.11	AT 287.96
600.0	599.62	13.88	3.853	-85.69	261.92	2.93 N	14.10 W	0.88	0.44	14.40	AT 281.73
650.0	649.47	17.78	3.519	-85.33	260.76	2.34 N	17.97 W	0.74	0.37	18.12	AT 277.41
700.0	699.31	21.75	3.106	-85.50	259.75	1.66 N	21.91 W	0.38	0.19	21.97	AT 274.34
750.0	749.17	25.42	2.712	-86.04	260.46	1.03 N	25.54 W	1.09	0.54	25.56	AT 272.30
800.0	799.06	28.75	2.339	-86.27	259.15	0.43 N	28.84 W	0.49	0.25	28.85	AT 270.86
850.0	848.96	31.84	1.944	-86.58	258.66	0.17 S	31.90 W	0.62	0.31	31.90	AT 269.70
900.0	898.87	34.78	1.526	-86.62	257.56	0.78 S	34.80 W	0.15	0.08	34.81	AT 268.72
950.0	948.79	37.63	1.070	-86.75	256.66	1.42 S	37.62 W	0.28	0.14	37.65	AT 267.84
1000.0	998.72	40.29	0.668	-87.10	258.66	2.00 S	40.24 W	0.73	0.37	40.29	AT 267.16
1050.0	1048.65	42.79	0.336	-87.10	258.66	2.49 S	42.72 W	0.00	0.00	42.79	AT 266.66
1100.0	1098.59	45.30	0.004	-87.10	258.67	2.99 S	45.20 W	0.00	0.00	45.30	AT 266.21

****
* ******** *
* THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
* ******** *
* 1100.0 FEET EQUALS 45.30 FEET AT 266.21 *
* ******** *
****

Entered

WELLBORE NAVIGATION, INC.
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT GOLD COMPANY *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97-398 / VERTICAL

LOCATION: ROSEBUD MINE

SURVEY DATE: 06/25/97

SURVEY ENGINEER: KENT CHILD

GYRO REFERENCE BEARING: 086.50

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

COMMENTS: **** EKLUND ****
** JOHN WELCH **
PROJECTED F/1000' T/1100'.
SILT IN RODS @ 1000'.

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

WELLBORE NAVIGATION, INC.
ELKO, NEVADA

JOB NUMBER: 29-0521-311

WELL NAME: 97-398 / S-N SECTION

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
50.0	50.00	0.07	-0.046	-89.81	326.52	0.07 N	0.05 W	0.38	0.19	0.08	AT 326.52
100.0	100.00	0.63	-0.124	-88.87	356.26	0.63 N	0.12 W	1.94	0.97	0.64	AT 348.90
150.0	149.98	1.67	-0.332	-88.69	342.06	1.67 N	0.33 W	0.70	0.35	1.70	AT 348.74
200.0	199.98	2.60	-0.653	-89.05	339.57	2.60 N	0.65 W	0.73	0.36	2.68	AT 345.90
250.0	249.97	3.28	-0.987	-89.20	326.96	3.28 N	0.99 W	0.49	0.24	3.42	AT 343.24
300.0	299.96	3.80	-1.428	-89.23	311.78	3.80 N	1.43 W	0.42	0.21	4.06	AT 339.38
350.0	349.96	4.17	-1.960	-89.27	297.92	4.17 N	1.96 W	0.37	0.19	4.61	AT 334.81
400.0	399.95	4.22	-3.078	-88.07	263.23	4.22 N	3.08 W	2.79	1.39	5.22	AT 323.89
450.0	449.91	4.02	-4.986	-87.53	264.47	4.02 N	4.99 W	1.08	0.54	6.40	AT 308.84
500.0	499.85	3.79	-7.479	-86.73	264.99	3.79 N	7.48 W	1.60	0.80	8.38	AT 296.86
550.0	549.75	3.43	-10.571	-86.13	261.97	3.43 N	10.57 W	1.26	0.63	11.11	AT 287.96
600.0	599.62	2.93	-14.102	-85.69	261.92	2.93 N	14.10 W	0.88	0.44	14.40	AT 281.73
650.0	649.47	2.34	-17.971	-85.33	260.76	2.34 N	17.97 W	0.74	0.37	18.12	AT 277.41
700.0	699.31	1.66	-21.910	-85.50	259.75	1.66 N	21.91 W	0.38	0.19	21.97	AT 274.34
750.0	749.17	1.03	-25.543	-86.04	260.46	1.03 N	25.54 W	1.09	0.54	25.56	AT 272.30
800.0	799.06	0.43	-28.843	-86.27	259.15	0.43 N	28.84 W	0.49	0.25	28.85	AT 270.86
850.0	848.96	-0.17	-31.903	-86.58	258.66	0.17 S	31.90 W	0.62	0.31	31.90	AT 269.70
900.0	898.87	-0.78	-34.804	-86.62	257.56	0.78 S	34.80 W	0.15	0.08	34.81	AT 268.72
950.0	948.79	-1.42	-37.623	-86.75	256.66	1.42 S	37.62 W	0.28	0.14	37.65	AT 267.84
1000.0	998.72	-2.00	-40.242	-87.10	258.66	2.00 S	40.24 W	0.73	0.37	40.29	AT 267.16
1050.0	1048.65	-2.49	-42.722	-87.10	258.66	2.49 S	42.72 W	0.00	0.00	42.79	AT 266.66
1100.0	1098.59	-2.99	-45.202	-87.10	258.67	2.99 S	45.20 W	0.00	0.00	45.30	AT 266.21

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*************************************************************
*                        ********                           *
*     THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF           *
*                        ********                           *
*  1100.0 FEET EQUALS    45.30   FEET AT  266.21            *
*                        ********                           *
*************************************************************
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WELLBORE NAVIGATION, INC.
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT GOLD COMPANY *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97-398 / S-N SECTION

LOCATION: ROSEBUD MINE

SURVEY DATE: 06/25/97

SURVEY ENGINEER: KENT CHILD

GYRO REFERENCE BEARING: 086.50

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 000.00

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

COMMENTS: **** EKLUND ****
** JOHN WELCH **
PROJECTED F/1000' T/1100'.
SILT IN RODS @ 1000'.

****
****
*** 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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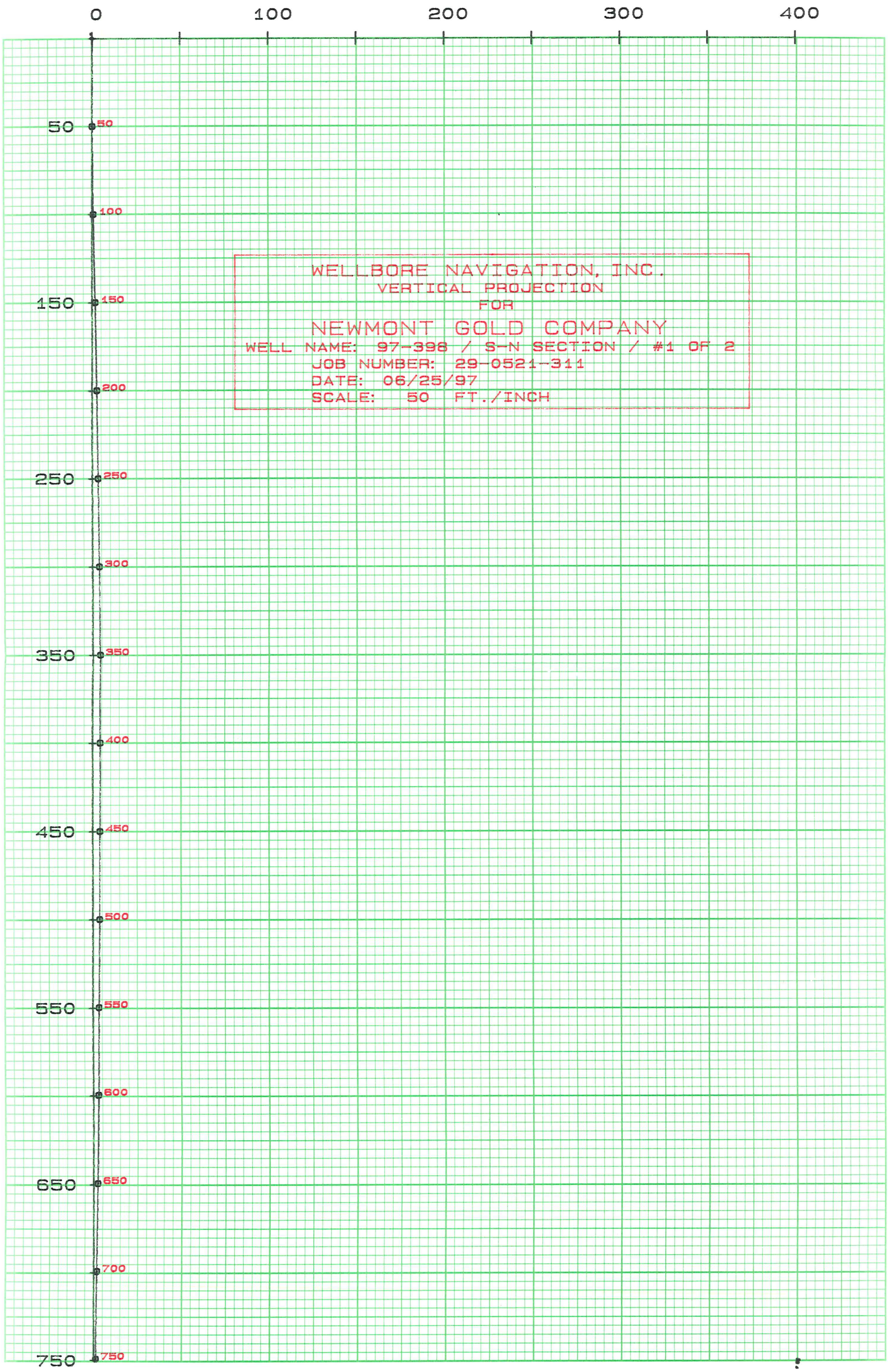
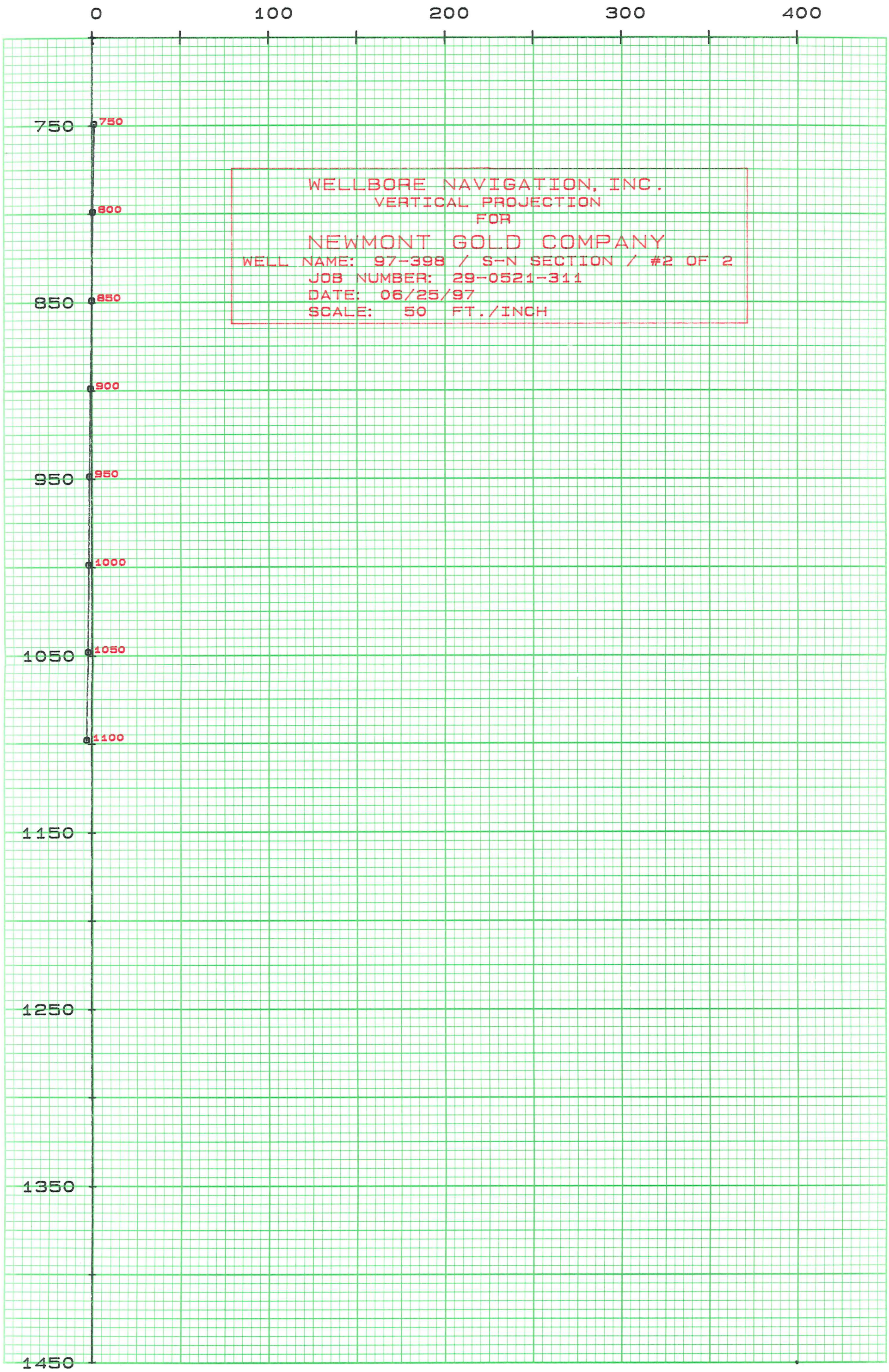


STARLIGHT PRINTING (801) 467-2841



WELLBORE NAVIGATION, INC.
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT GOLD COMPANY *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97-398 / W-E SECTION

LOCATION: ROSEBUD MINE

SURVEY DATE: 06/25/97

SURVEY ENGINEER: KENT CHILD

GYRO REFERENCE BEARING: 086.50

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 090.00

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

COMMENTS: **** EKLUND ****
** JOHN WELCH **
PROJECTED F/1000' T/1100'.
SILT IN RODS @ 1000'.

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

WELLBORE NAVIGATION, INC.
ELKO, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: 97-398 / W-E SECTION

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
50.0	50.00	-0.05	-0.069	-89.81	326.52	0.07 N	0.05 W	0.38	0.19	0.08	AT 326.52
100.0	100.00	-0.12	-0.630	-88.87	356.26	0.63 N	0.12 W	1.94	0.97	0.64	AT 348.90
150.0	149.98	-0.33	-1.666	-88.69	342.06	1.67 N	0.33 W	0.70	0.35	1.70	AT 348.74
200.0	199.98	-0.65	-2.598	-89.05	339.57	2.60 N	0.65 W	0.73	0.36	2.68	AT 345.90
250.0	249.97	-0.99	-3.279	-89.20	326.96	3.28 N	0.99 W	0.49	0.24	3.42	AT 343.24
300.0	299.96	-1.43	-3.796	-89.23	311.78	3.80 N	1.43 W	0.42	0.21	4.06	AT 339.38
350.0	349.96	-1.96	-4.169	-89.27	297.92	4.17 N	1.96 W	0.37	0.19	4.61	AT 334.81
400.0	399.95	-3.08	-4.219	-88.07	263.23	4.22 N	3.08 W	2.79	1.39	5.22	AT 323.89
450.0	449.91	-4.99	-4.016	-87.53	264.47	4.02 N	4.99 W	1.08	0.54	6.40	AT 308.84
500.0	499.85	-7.48	-3.787	-86.73	264.99	3.79 N	7.48 W	1.60	0.80	8.38	AT 296.86
550.0	549.75	-10.57	-3.427	-86.13	261.97	3.43 N	10.57 W	1.26	0.63	11.11	AT 287.96
600.0	599.62	-14.10	-2.927	-85.69	261.92	2.93 N	14.10 W	0.88	0.44	14.40	AT 281.73
650.0	649.47	-17.97	-2.337	-85.33	260.76	2.34 N	17.97 W	0.74	0.37	18.12	AT 277.41
700.0	699.31	-21.91	-1.661	-85.50	259.75	1.66 N	21.91 W	0.38	0.19	21.97	AT 274.34
750.0	749.17	-25.54	-1.026	-86.04	260.46	1.03 N	25.54 W	1.09	0.54	25.56	AT 272.30
800.0	799.06	-28.84	-0.434	-86.27	259.15	0.43 N	28.84 W	0.49	0.25	28.85	AT 270.86
850.0	848.96	-31.90	0.165	-86.58	258.66	0.17 S	31.90 W	0.62	0.31	31.90	AT 269.70
900.0	898.87	-34.80	0.776	-86.62	257.56	0.78 S	34.80 W	0.15	0.08	34.81	AT 268.72
950.0	948.79	-37.62	1.420	-86.75	256.66	1.42 S	37.62 W	0.28	0.14	37.65	AT 267.84
1000.0	998.72	-40.24	1.996	-87.10	258.66	2.00 S	40.24 W	0.73	0.37	40.29	AT 267.16
1050.0	1048.65	-42.72	2.494	-87.10	258.66	2.49 S	42.72 W	0.00	0.00	42.79	AT 266.66
1100.0	1098.59	-45.20	2.991	-87.10	258.67	2.99 S	45.20 W	0.00	0.00	45.30	AT 266.21

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*************************************************************
*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  1100.0 FEET EQUALS    45.30   FEET AT  266.21             *
*                          ********                         *
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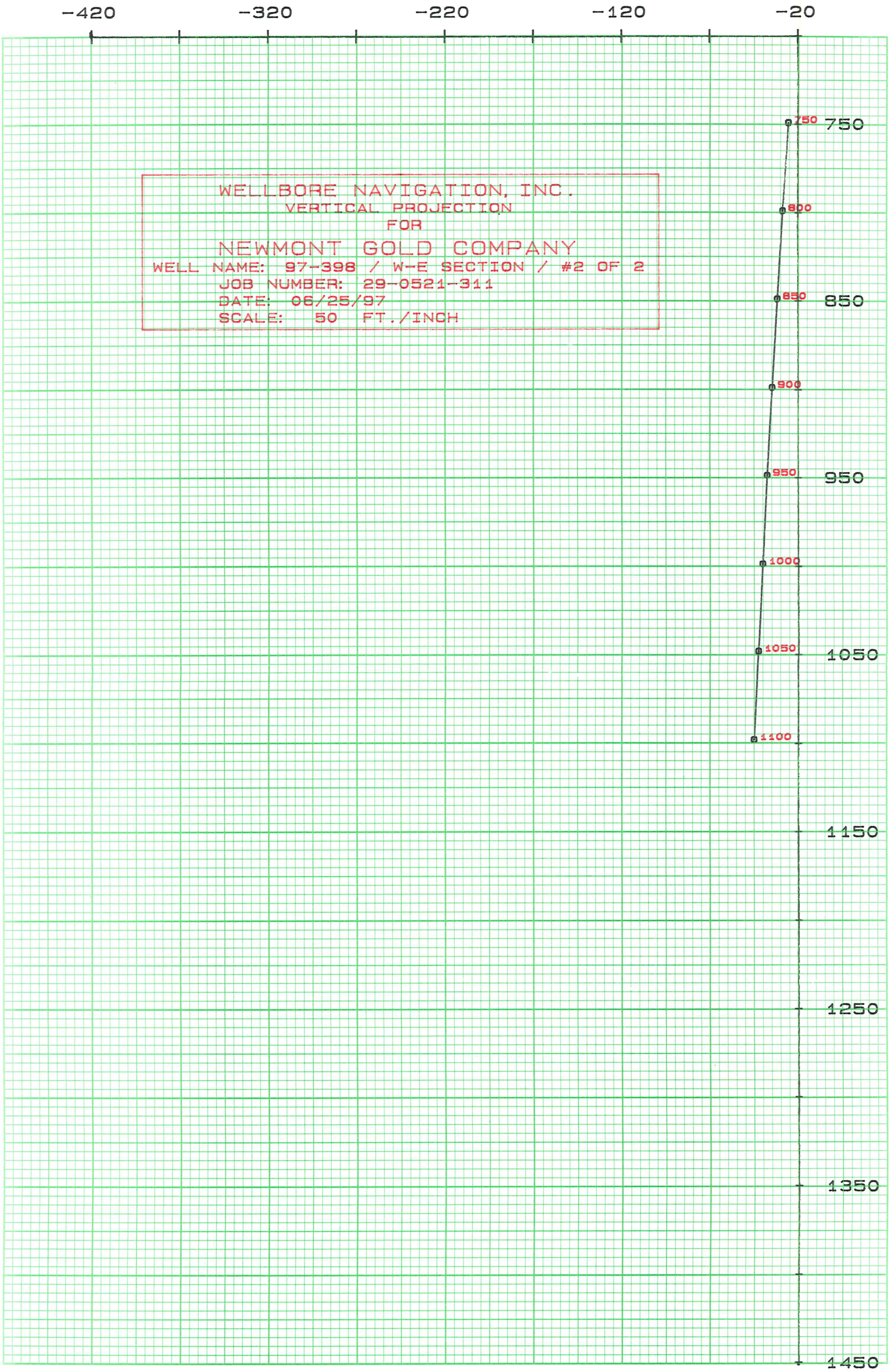

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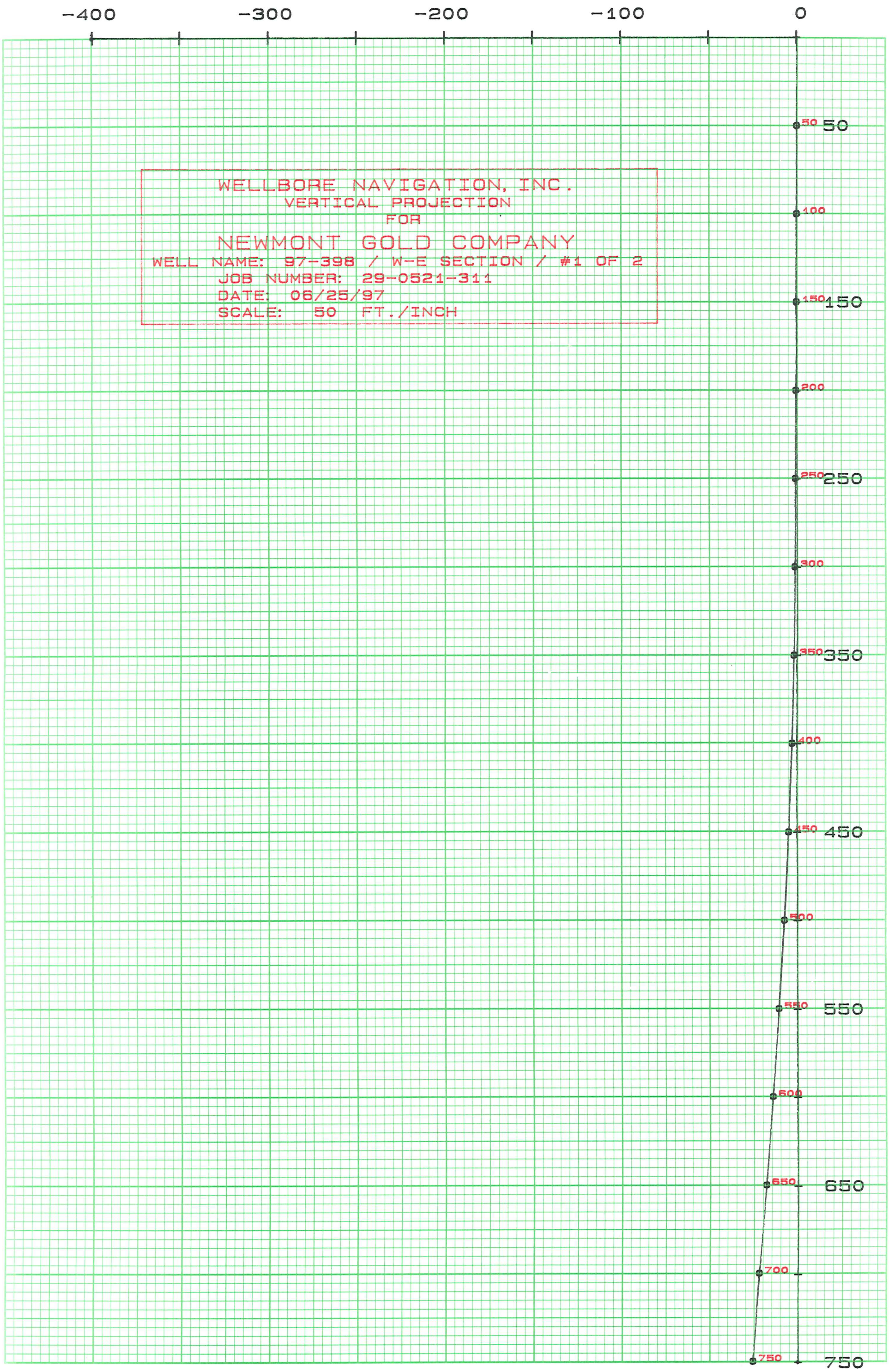

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311

WELL NAME: 97-~~389~~ 398 / VERTICAL

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	TEMP. DEG. F.
50.0	50.00	-0.05	-0.113	-89.72	154.73	0.11 S	0.05 E	0.56	0.28	0.12	AT 154.73	083.51
100.0	100.00	-0.03	0.329	-88.72	350.42	0.33 N	0.01 E	3.10	1.55	0.33	AT 001.97	081.77
150.0	149.99	0.04	1.376	-88.87	355.43	1.37 N	0.12 W	0.37	0.18	1.38	AT 354.96	081.34
200.0	199.98	0.16	2.239	-89.12	341.03	2.23 N	0.28 W	0.71	0.35	2.24	AT 352.71	081.05
250.0	249.97	0.46	2.936	-89.12	325.52	2.91 N	0.63 W	0.48	0.24	2.97	AT 347.82	080.69
300.0	299.97	0.91	3.509	-89.20	311.25	3.45 N	1.11 W	0.45	0.22	3.63	AT 342.22	080.40
350.0	349.96	1.42	3.945	-89.26	303.27	3.86 N	1.64 W	0.25	0.12	4.19	AT 336.99	080.33
400.0	399.95	2.44	4.184	-88.25	270.35	4.04 N	2.67 W	2.40	1.20	4.85	AT 326.52	080.33
450.0	449.92	4.25	4.271	-87.60	268.98	4.03 N	4.48 W	1.30	0.65	6.03	AT 311.94	080.19
500.0	499.85	6.79	4.339	-86.57	267.88	3.95 N	7.02 W	2.06	1.03	8.06	AT 299.37	080.19
550.0	549.75	9.99	4.223	-86.08	261.98	3.66 N	10.21 W	1.24	0.62	10.85	AT 289.72	080.19
600.0	599.62	13.58	3.968	-85.68	263.42	3.21 N	13.77 W	0.83	0.41	14.14	AT 283.10	080.19
650.0	649.47	17.40	3.679	-85.51	261.62	2.70 N	17.58 W	0.44	0.22	17.79	AT 278.75	080.33
700.0	699.32	21.26	3.410	-85.61	264.05	2.22 N	21.42 W	0.43	0.21	21.54	AT 275.92	080.40
750.0	749.19	24.81	3.180	-86.23	262.00	1.79 N	24.95 W	1.27	0.64	25.02	AT 274.11	080.69
800.0	799.10	27.92	2.927	-86.62	262.33	1.37 N	28.04 W	0.78	0.39	28.07	AT 272.79	080.98
850.0	849.01	30.86	2.696	-86.62	262.28	0.97 N	30.96 W	0.01	0.00	30.98	AT 271.80	081.27
900.0	898.93	33.67	2.405	-86.89	259.43	0.53 N	33.76 W	0.63	0.31	33.76	AT 270.90	081.63
950.0	948.86	36.30	2.117	-87.06	261.72	0.09 N	36.36 W	0.42	0.21	36.36	AT 270.15	081.92
1000.0	998.79	38.92	1.836	-86.89	259.72	0.33 S	38.96 W	0.40	0.20	38.96	AT 269.51	082.28
1050.0	1048.73	41.41	1.477	-87.35	257.27	0.83 S	41.42 W	0.95	0.48	41.43	AT 268.85	082.35
1100.0	1098.67	43.84	1.084	-87.00	257.98	1.36 S	43.83 W	0.70	0.35	43.85	AT 268.23	082.78
1150.0	1148.60	46.34	0.734	-87.20	259.80	1.85 S	46.31 W	0.44	0.22	46.35	AT 267.72	083.07
1200.0	1198.55	48.62	0.348	-87.51	254.17	2.36 S	48.56 W	0.81	0.40	48.62	AT 267.22	083.36
1250.0	1248.50	50.74	0.031	-87.55	262.58	2.79 S	50.66 W	0.73	0.36	50.74	AT 266.85	083.65
1300.0	1298.46	52.74	-0.088	-87.87	264.32	3.02 S	52.65 W	0.65	0.33	52.74	AT 266.71	083.87
1350.0	1348.43	54.47	-0.140	-88.15	265.97	3.17 S	54.38 W	0.57	0.29	54.47	AT 266.66	083.72
1400.0	1398.41	56.01	-0.087	-88.31	271.87	3.20 S	55.92 W	0.48	0.24	56.01	AT 266.72	083.79
1426.0	1424.40	56.88	-0.038	-87.86	268.62	3.20 S	56.79 W	1.78	0.46	56.88	AT 266.77	084.16
1450.0	1448.38	57.77	0.005	-87.86	270.52	3.21 S	57.68 W	0.30	0.07	57.77	AT 266.81	084.08

****
* ******** *
* THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
* ******** *
* 1450.0 FEET EQUALS 57.77 FEET AT 266.81 *
* ******** *
****

Entered

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT GOLD COMPANY *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97-~~399~~ 398 / VERTICAL

LOCATION: ROSEBUD MINE

SURVEY DATE: 07/22/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: 358.50

WELNAV

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

COMMENTS: ** BOART LONGYEAR **
*** DEAN KEYSER ***
*** BILL KURPIS ***
PROJECTED F/1426' T/1450'.

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

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: 97-389 / S-N SECTION

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	TEMP. DEG. F.
50.0	50.00	-0.11	0.052	-89.72	154.73	0.11 S	0.05 E	0.56	0.28	0.12	AT 154.73	083.51
100.0	100.00	0.33	0.011	-88.72	350.42	0.33 N	0.01 E	3.10	1.55	0.33	AT 001.97	081.77
150.0	149.99	1.37	-0.121	-88.87	355.43	1.37 N	0.12 W	0.37	0.18	1.38	AT 354.96	081.34
200.0	199.98	2.23	-0.285	-89.12	341.03	2.23 N	0.28 W	0.71	0.35	2.24	AT 352.71	081.05
250.0	249.97	2.91	-0.627	-89.12	325.52	2.91 N	0.63 W	0.48	0.24	2.97	AT 347.82	080.69
300.0	299.97	3.45	-1.107	-89.20	311.25	3.45 N	1.11 W	0.45	0.22	3.63	AT 342.22	080.40
350.0	349.96	3.86	-1.639	-89.26	303.27	3.86 N	1.64 W	0.25	0.12	4.19	AT 336.99	080.33
400.0	399.95	4.04	-2.673	-88.25	270.35	4.04 N	2.67 W	2.40	1.20	4.85	AT 326.52	080.33
450.0	449.92	4.03	-4.483	-87.60	268.98	4.03 N	4.48 W	1.30	0.65	6.03	AT 311.94	080.19
500.0	499.85	3.95	-7.025	-86.57	267.88	3.95 N	7.02 W	2.06	1.03	8.06	AT 299.37	080.19
550.0	549.75	3.66	-10.212	-86.08	261.98	3.66 N	10.21 W	1.24	0.62	10.85	AT 289.72	080.19
600.0	599.62	3.21	-13.775	-85.68	263.42	3.21 N	13.77 W	0.83	0.41	14.14	AT 283.10	080.19
650.0	649.47	2.70	-17.582	-85.51	261.62	2.70 N	17.58 W	0.44	0.22	17.79	AT 278.75	080.33
700.0	699.32	2.22	-21.421	-85.61	264.05	2.22 N	21.42 W	0.43	0.21	21.54	AT 275.92	080.40
750.0	749.19	1.79	-24.952	-86.23	262.00	1.79 N	24.95 W	1.27	0.64	25.02	AT 274.11	080.69
800.0	799.10	1.37	-28.041	-86.62	262.33	1.37 N	28.04 W	0.78	0.39	28.07	AT 272.79	080.98
850.0	849.01	0.97	-30.962	-86.62	262.28	0.97 N	30.96 W	0.01	0.00	30.98	AT 271.80	081.27
900.0	898.93	0.53	-33.756	-86.89	259.43	0.53 N	33.76 W	0.63	0.31	33.76	AT 270.90	081.63
950.0	948.86	0.09	-36.359	-87.06	261.72	0.09 N	36.36 W	0.42	0.21	36.36	AT 270.15	081.92
1000.0	998.79	-0.33	-38.962	-86.89	259.72	0.33 S	38.96 W	0.40	0.20	38.96	AT 269.51	082.28
1050.0	1048.73	-0.83	-41.424	-87.35	257.27	0.83 S	41.42 W	0.95	0.48	41.43	AT 268.85	082.35
1100.0	1098.67	-1.36	-43.831	-87.00	257.98	1.36 S	43.83 W	0.70	0.35	43.85	AT 268.23	082.78
1150.0	1148.60	-1.85	-46.313	-87.20	259.80	1.85 S	46.31 W	0.44	0.22	46.35	AT 267.72	083.07
1200.0	1198.55	-2.36	-48.560	-87.51	254.17	2.36 S	48.56 W	0.81	0.40	48.62	AT 267.22	083.36
1250.0	1248.50	-2.79	-50.664	-87.55	262.58	2.79 S	50.66 W	0.73	0.36	50.74	AT 266.85	083.65
1300.0	1298.46	-3.02	-52.649	-87.87	264.32	3.02 S	52.65 W	0.65	0.33	52.74	AT 266.71	083.87
1350.0	1348.43	-3.17	-54.378	-88.15	265.97	3.17 S	54.38 W	0.57	0.29	54.47	AT 266.66	083.72
1400.0	1398.41	-3.20	-55.920	-88.31	271.87	3.20 S	55.92 W	0.48	0.24	56.01	AT 266.72	083.79
1426.0	1424.39	-3.20	-56.789	-87.86	268.62	3.20 S	56.79 W	1.78	0.46	56.88	AT 266.77	084.16
1450.0	1448.38	-3.21	-57.685	-87.86	270.52	3.21 S	57.68 W	0.30	0.07	57.77	AT 266.81	084.08

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*************************************************************
*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  1450.0 FEET EQUALS     57.77    FEET AT   266.81         *
*                          ********                         *
*************************************************************
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WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT GOLD COMPANY *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97-~~397~~ 398 / S-N SECTION

LOCATION: ROSEBUD MINE

SURVEY DATE: 07/22/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: 358.50

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 000.00

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

COMMENTS: ** BOART LONGYEAR **
*** DEAN KEYSER ***
*** BILL KURPIS ***
PROJECTED F/1426' T/1450'.

****
****
*** 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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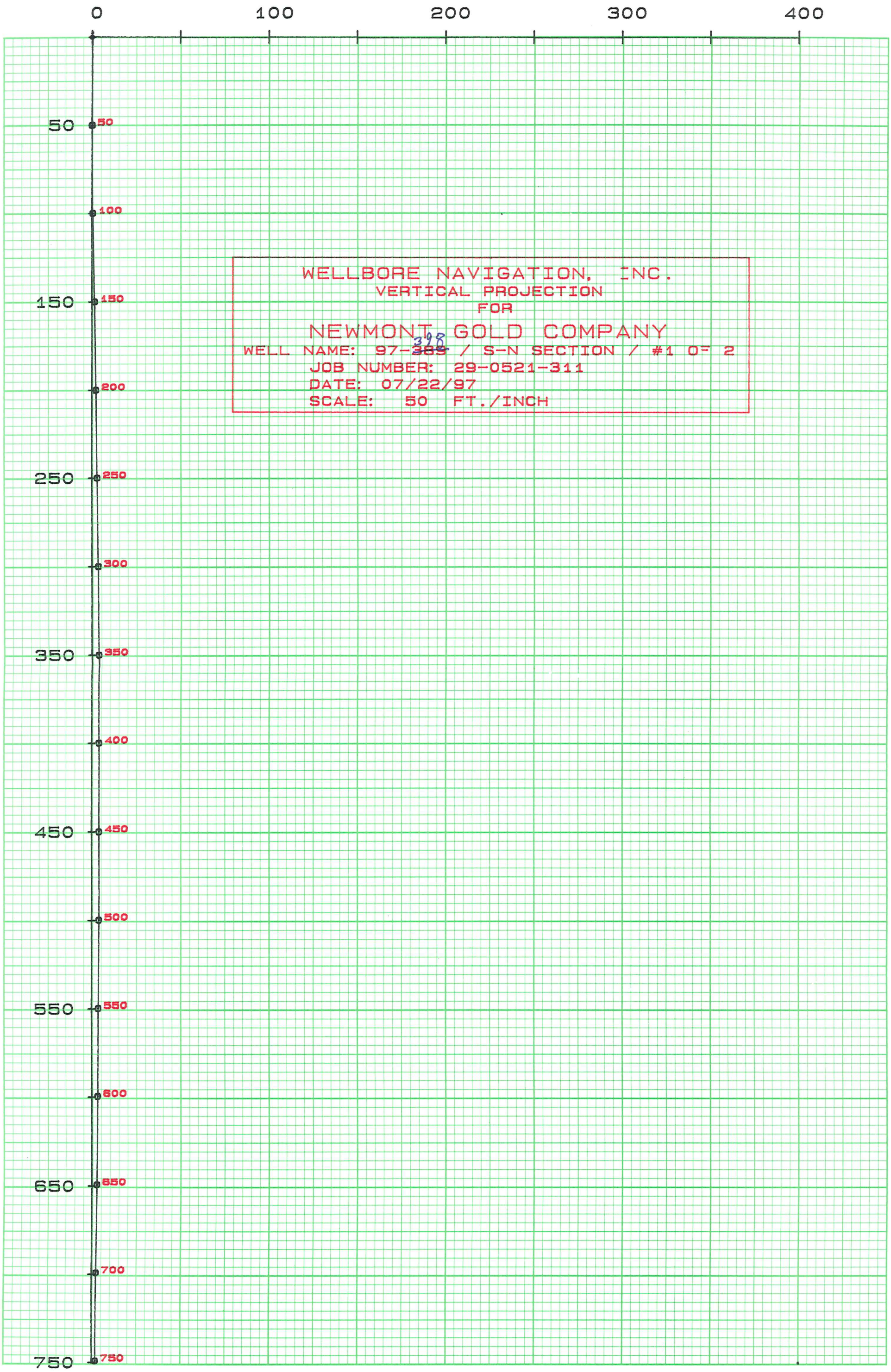

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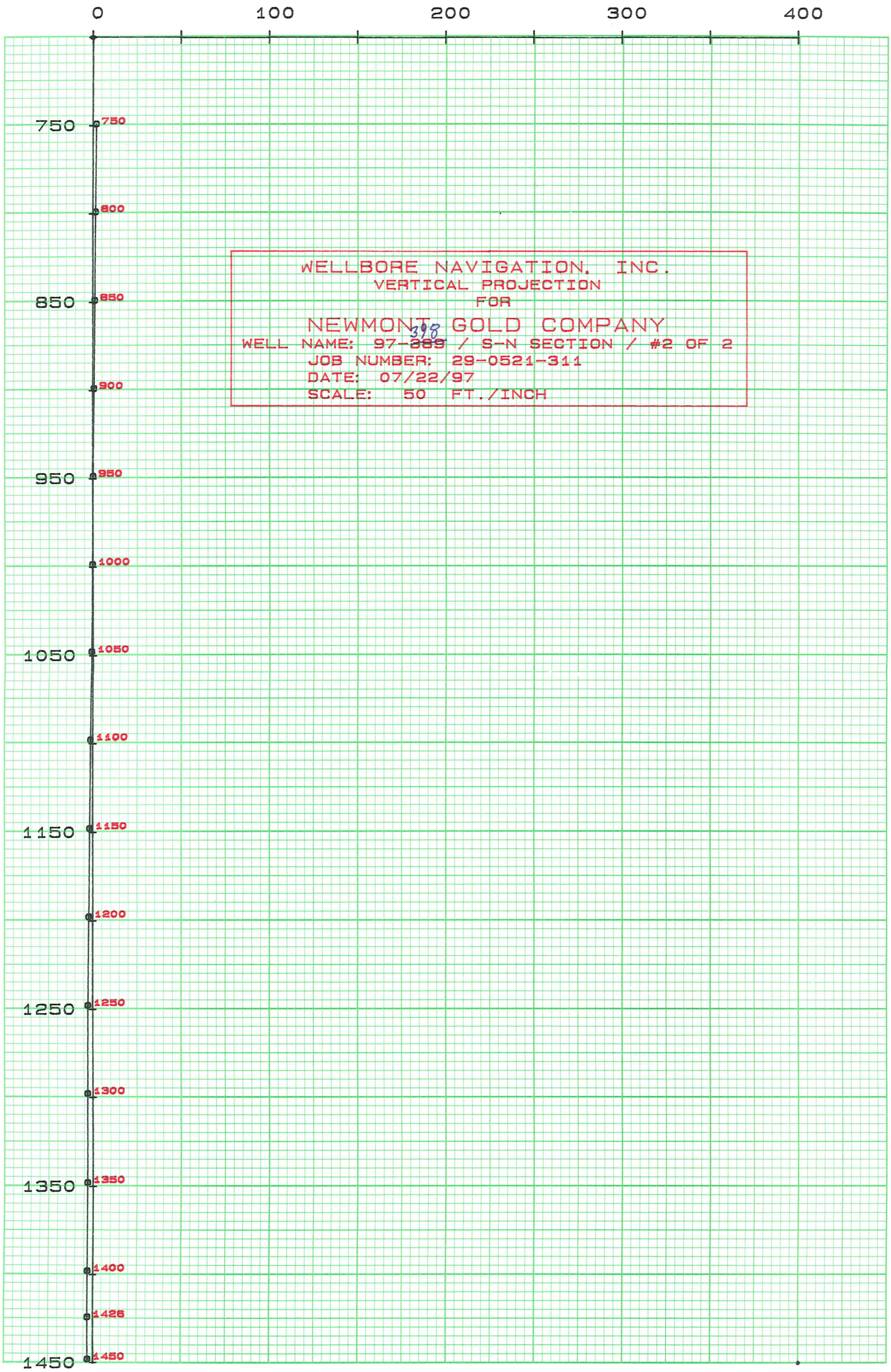

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: 97-389 / W-E SECTION

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	TEMP. DEG. F.
50.0	50.00	0.05	0.110	-89.72	154.73	0.11 S	0.05 E	0.56	0.28	0.12	AT 154.73	083.51
100.0	100.00	0.01	-0.330	-88.72	350.42	0.33 N	0.01 E	3.10	1.55	0.33	AT 001.97	081.77
150.0	149.99	-0.12	-1.372	-88.87	355.43	1.37 N	0.12 W	0.37	0.18	1.38	AT 354.96	081.34
200.0	199.98	-0.28	-2.226	-89.12	341.03	2.23 N	0.28 W	0.71	0.35	2.24	AT 352.71	081.05
250.0	249.97	-0.63	-2.906	-89.12	325.52	2.91 N	0.63 W	0.48	0.24	2.97	AT 347.82	080.69
300.0	299.97	-1.11	-3.453	-89.20	311.25	3.45 N	1.11 W	0.45	0.22	3.63	AT 342.22	080.40
350.0	349.96	-1.64	-3.860	-89.26	303.27	3.86 N	1.64 W	0.25	0.12	4.19	AT 336.99	080.33
400.0	399.95	-2.67	-4.042	-88.25	270.35	4.04 N	2.67 W	2.40	1.20	4.85	AT 326.52	080.33
450.0	449.92	-4.48	-4.028	-87.60	268.98	4.03 N	4.48 W	1.30	0.65	6.03	AT 311.94	080.19
500.0	499.85	-7.02	-3.954	-86.57	267.88	3.95 N	7.02 W	2.06	1.03	8.06	AT 299.37	080.19
550.0	549.75	-10.21	-3.660	-86.08	261.98	3.66 N	10.21 W	1.24	0.62	10.85	AT 289.72	080.19
600.0	599.62	-13.77	-3.206	-85.68	263.42	3.21 N	13.77 W	0.83	0.41	14.14	AT 283.10	080.19
650.0	649.47	-17.58	-2.705	-85.51	261.62	2.70 N	17.58 W	0.44	0.22	17.79	AT 278.75	080.33
700.0	699.32	-21.42	-2.221	-85.61	264.05	2.22 N	21.42 W	0.43	0.21	21.54	AT 275.92	080.40
750.0	749.19	-24.95	-1.794	-86.23	262.00	1.79 N	24.95 W	1.27	0.64	25.02	AT 274.11	080.69
800.0	799.10	-28.04	-1.369	-86.62	262.33	1.37 N	28.04 W	0.78	0.39	28.07	AT 272.79	080.98
850.0	849.01	-30.96	-0.974	-86.62	262.28	0.97 N	30.96 W	0.01	0.00	30.98	AT 271.80	081.27
900.0	898.93	-33.76	-0.527	-86.89	259.43	0.53 N	33.76 W	0.63	0.31	33.76	AT 270.90	081.63
950.0	948.86	-36.36	-0.094	-87.06	261.72	0.09 N	36.36 W	0.42	0.21	36.36	AT 270.15	081.92
1000.0	998.79	-38.96	0.333	-86.89	259.72	0.33 S	38.96 W	0.40	0.20	38.96	AT 269.51	082.28
1050.0	1048.73	-41.42	0.830	-87.35	257.27	0.83 S	41.42 W	0.95	0.48	41.43	AT 268.85	082.35
1100.0	1098.67	-43.83	1.357	-87.00	257.98	1.36 S	43.83 W	0.70	0.35	43.85	AT 268.23	082.78
1150.0	1148.60	-46.31	1.846	-87.20	259.80	1.85 S	46.31 W	0.44	0.22	46.35	AT 267.72	083.07
1200.0	1198.55	-48.56	2.358	-87.51	254.17	2.36 S	48.56 W	0.81	0.40	48.62	AT 267.22	083.36
1250.0	1248.50	-50.66	2.793	-87.55	262.58	2.79 S	50.66 W	0.73	0.36	50.74	AT 266.85	083.65
1300.0	1298.46	-52.65	3.023	-87.87	264.32	3.02 S	52.65 W	0.65	0.33	52.74	AT 266.71	083.87
1350.0	1348.43	-54.38	3.171	-88.15	265.97	3.17 S	54.38 W	0.57	0.29	54.47	AT 266.66	083.72
1400.0	1398.41	-55.92	3.204	-88.31	271.87	3.20 S	55.92 W	0.48	0.24	56.01	AT 266.72	083.79
1426.0	1424.39	-56.79	3.203	-87.86	268.62	3.20 S	56.79 W	1.78	0.46	56.88	AT 266.77	084.16
1450.0	1448.38	-57.68	3.210	-87.86	270.52	3.21 S	57.68 W	0.30	0.07	57.77	AT 266.81	084.08

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*************************************************************
*                         ********                          *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                         ********                          *
*  1450.0 FEET EQUALS     57.77    FEET AT   266.81         *
*                         ********                          *
*************************************************************
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WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT GOLD COMPANY *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97-~~307~~ 398 / W-E SECTION

LOCATION: ROSEBUD MINE

SURVEY DATE: 07/22/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: 358.50

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 090.00

WELNAV

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

COMMENTS: ** BOART LONGYEAR **
*** DEAN KEYSER ***
*** BILL KURPIS ***
PROJECTED F/1426' T/1450'.

****
****
*** 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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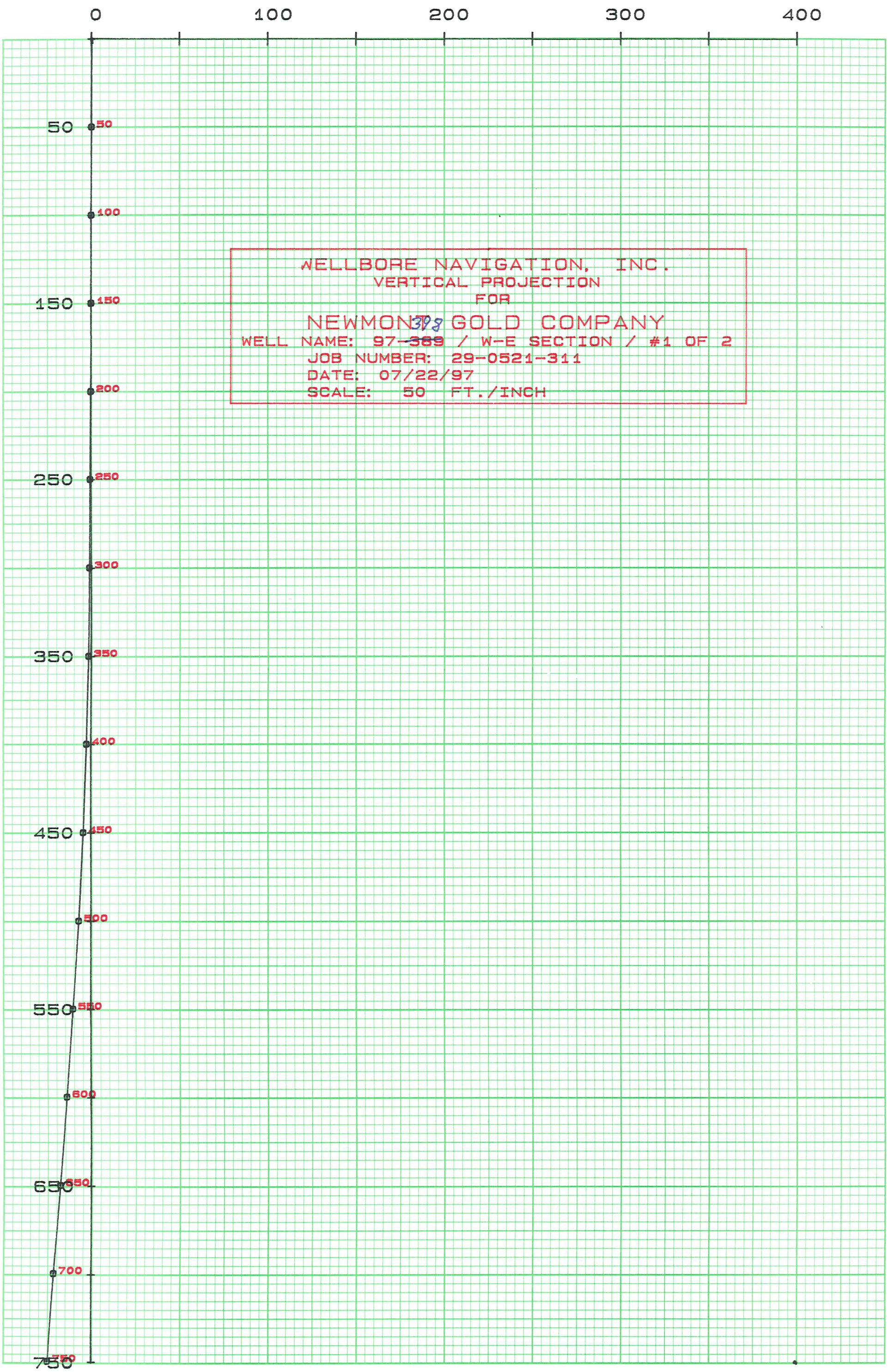

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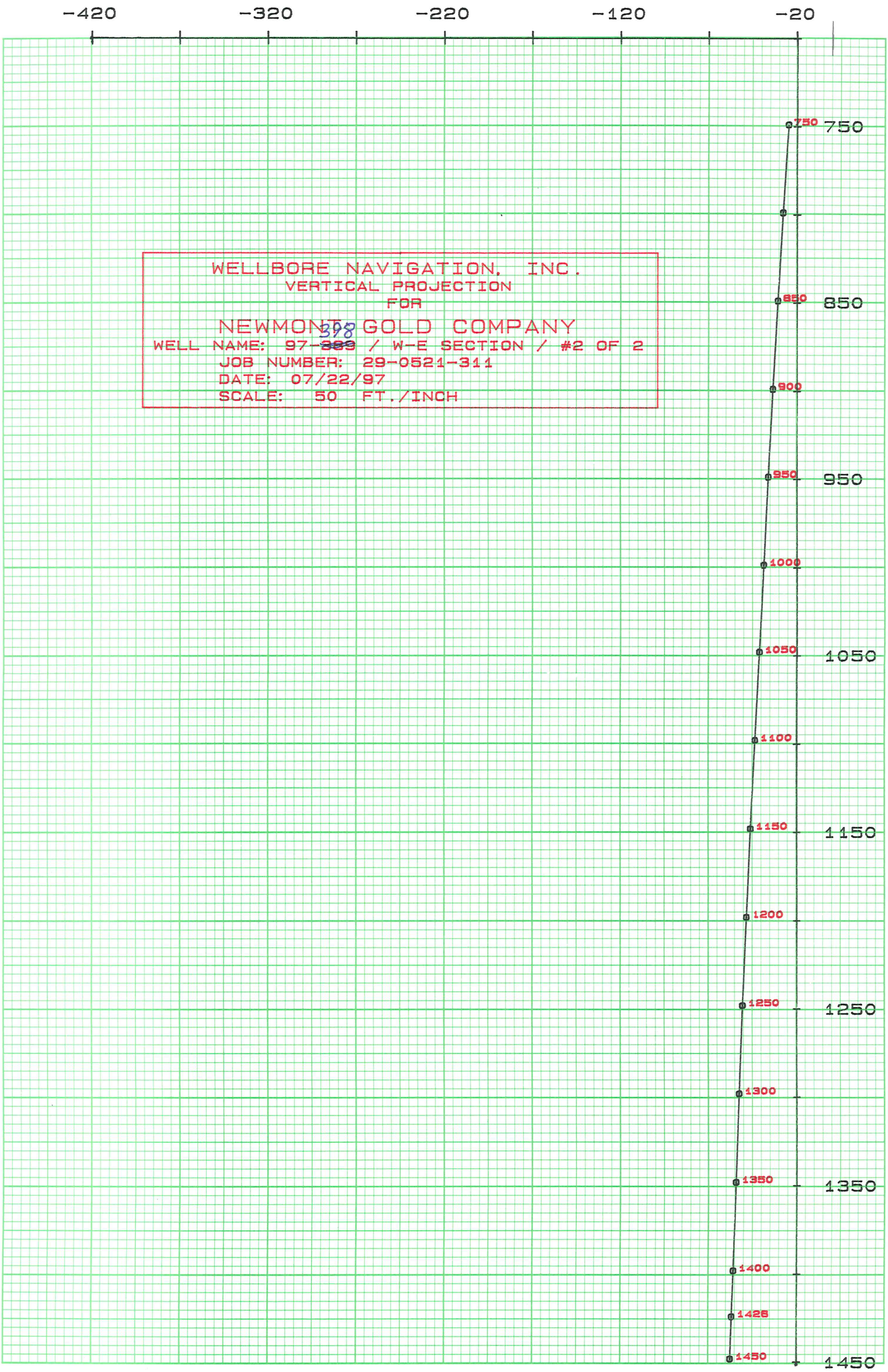

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Fax
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Fax
(702) 738-2594

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

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Newmont Exploration Ltd

Address: 861 W. 6th st

City Winnemucca State NV Zip 89445

Telephone Number: (702) 623 3493 Fax Number: (702) 623 1052

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 8/26/97 Number of Samples: 82

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
97-398 1100-1465	Core	Au, Ag FA/AA each sample
(see attached for details)		
		And:
		ICP PKg on 4-Sample Composites
		And:
		Hg-AA on the composites

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:

~~Randy Vance~~ - NEL Winnemucca
Charlotte Ballew

Results to:

Rick Lisle
Randy Vance } NEL Winnemucca

Kurt Allen - Hecla - Rosebud

Comments:

Please fax prelim results to Rosebud at 623-6867

CLIENT FILE COPY

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
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CLIENT: *NEWMONT EXPLORATION Ltd.*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046135
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-398 1100-1120	< .3	0.6	4	4	98	< 3	0.74	0.4	1	3	6	1.72	15	0.26	63	0.02	692	6	0.05	1	0.009	30	< 3	80	16	< .01	< 8	1	< 2	93
97-398 1120-1140	< .3	0.64	2	3	162	4	0.72	< .2	1	2	5	1.85	< 10	0.23	64	0.02	792	5	0.05	1	0.008	27	< 3	73	15	< .01	< 8	< 1	< 2	69
97-398 1140-1160	< .3	0.66	< 2	< 3	53	5	0.61	< .2	1	2	5	2.02	< 10	0.25	65	0.03	905	3	0.06	1	0.009	28	< 3	66	14	< .01	< 8	1	< 2	73
97-398 1160-1180	< .3	0.7	< 2	< 3	32	< 3	0.66	< .2	1	2	4	1.99	< 10	0.25	68	0.03	837	2	0.06	< 1	0.01	25	< 3	65	15	< .01	< 8	1	< 2	68
97-398 1180-1200	< .3	0.72	5	3	17	4	0.68	0.3	< 1	4	7	2.12	15	0.27	63	0.02	615	2	0.07	2	0.01	22	< 3	66	16	< .01	< 8	1	< 2	65
97-398 1200-1220	< .3	0.58	4	< 3	67	4	0.55	< .2	1	5	8	2.09	25	0.26	71	0.02	792	8	0.07	2	0.01	22	< 3	49	17	< .01	< 8	1	< 2	56
97-398 1220-1240	< .3	0.95	3	3	17	< 3	0.77	< .2	1	4	7	2.97	15	0.23	58	0.03	1723	21	0.06	1	0.011	26	< 3	40	13	< .01	< 8	1	< 2	92
97-398 1240-1260	< .3	1.03	2	< 3	14	< 3	1.16	< .2	< 1	2	7	2.72	20	0.28	55	0.06	762	3	0.04	< 1	0.013	33	< 3	62	12	< .01	< 8	1	< 2	92
97-398 1260-1280	0.5	0.86	15	< 3	39	< 3	0.96	< .2	1	3	10	2.86	10	0.22	47	0.04	3093	3	0.05	2	0.008	23	< 3	49	11	< .01	< 8	1	< 2	74
97-398 1280-1300	< .3	0.61	2	3	17	< 3	0.92	< .2	< 1	3	5	2.06	< 10	0.21	48	0.02	1109	1	0.05	3	0.008	23	< 3	53	12	< .01	< 8	1	< 2	46
97-398 1300-1320	0.4	0.57	5	3	17	< 3	0.91	< .2	1	3	8	1.77	< 10	0.23	57	0.02	696	1	0.05	< 1	0.008	26	< 3	55	15	< .01	< 8	1	< 2	55
97-398 1320-1340	< .3	0.71	19	< 3	124	< 3	1.17	0.2	1	3	17	1.96	< 10	0.21	45	0.07	1115	5	0.04	2	0.007	29	4	99	11	< .01	< 8	1	< 2	74
97-398 1340.0-1354.5	0.4	0.54	27	3	53	< 3	6.6	0.3	1	2	70	1.62	20	0.18	23	0.06	2050	16	0.02	1	0.004	15	< 3	297	5	< .01	< 8	1	< 2	69
97-398 1354.5-1364.5	2.5	0.75	101	5	37	< 3	1.36	< .2	< 1	2	9	2.44	65	0.37	38	0.04	498	177	0.02	< 1	0.005	28	7	144	9	< .01	< 8	< 1	< 2	67
97-398 1364.5-1373.4	2.1	0.66	35	< 3	53	< 3	2.08	< .2	1	2	2	1.32	155	0.32	48	0.04	865	139	0.02	1	0.008	26	7	198	13	< .01	< 8	1	< 2	75
97-398 1373.4-1380.0	1.8	0.79	66	4	34	< 3	1.9	< .2	< 1	1	2	2.22	95	0.35	34	0.05	792	121	0.02	3	0.008	29	8	196	9	< .01	< 8	1	< 2	49
97-398 1380-1400	0.9	0.84	63	< 3	64	< 3	1.8	< .2	1	2	5	1.41	65	0.38	50	0.05	985	48	0.02	1	0.007	23	5	135	12	< .01	< 8	< 1	< 2	56
97-398 1400-1418	0.8	0.67	67	< 3	61	4	2.64	0.2	1	1	44	1.6	40	0.27	42	0.05	876	40	0.02	< 1	0.006	30	5	238	11	< .01	< 8	< 1	< 2	73
97-398 1418-1433	0.8	0.28	35	3	56	5	9.59	4.2	5	5	38	1.92	40	0.14	3	0.46	617	31	0.01	48	0.069	13	8	634	2	< .01	< 8	11	< 2	340
97-398 1433-1456	0.6	0.23	50	< 3	62	< 3	8.11	3.6	4	5	29	2.02	20	0.12	3	0.33	443	23	0.01	43	0.075	4	9	479	2	< .01	< 8	8	< 2	292
97-398 1456-1465	0.8	0.26	34	5	95	< 3	10.03	0.8	6	4	36	2.48	30	0.13	3	0.7	446	27	0.01	53	0.087	10	10	564	2	< .01	< 8	7	< 2	96
STANDARD C3	5.5	1.98	53	19	144	26	0.61	23.6	12	175	66	3.55	1000	0.17	19	0.63	769	26	0.04	32	0.09	40	16	31	19	0.1	24	84	23	165

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	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
	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	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.

AMERICAN ASSAY LABORATORIES
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CLIENT: *ROSEBUD EXPLORATION*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP045123
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-398 0000-0020	0.8	0.92	56	16	181	< 2	1.36	0.2	2	6	12	2.44	175	0.47	35	0.2	207	2	0.24	5	0.031	19	6	157	11	< .01	< 5	20	< 2	26
97-398 0020-0040	1.5	0.51	88	3	120	< 2	0.19	< .2	< 1	4	9	1.97	245	0.46	30	0.03	101	2	0.05	3	0.012	19	3	102	11	< .01	< 5	5	< 2	14
97-398 0040-0060	1.5	0.47	224	< 3	107	< 2	0.14	< .2	< 1	5	11	2.37	135	0.3	19	0.03	81	4	0.02	3	0.021	16	7	114	7	< .01	< 5	4	< 2	18
97-398 0060-0080	3.6	0.75	119	< 3	17	< 2	0.22	0.6	5	4	12	2.86	240	0.38	20	0.04	54	3	0.02	4	0.051	18	9	291	4	< .01	< 5	2	< 2	75
97-398 0080-0100	2.2	1.08	36	< 3	13	< 2	0.33	0.5	4	2	6	2.59	125	0.44	20	0.05	762	1	0.01	2	0.058	27	5	142	4	< .01	14	2	< 2	125
97-398 0100-0120	0.8	1.02	30	< 3	19	< 2	1.92	0.3	3	2	7	2.91	65	0.37	19	0.09	1490	1	0.02	3	0.049	29	2	82	4	< .01	< 5	3	< 2	130
97-398 0120-0140	0.7	0.72	29	< 3	46	< 2	1.57	0.3	1	3	10	2.04	25	0.32	16	0.06	488	1	0.03	2	0.04	22	3	73	3	< .01	< 5	2	< 2	46
97-398 0140-0160	0.9	0.59	53	< 3	35	< 2	1.48	0.3	1	6	12	2.21	50	0.33	13	0.04	388	2	0.02	4	0.05	20	2	91	3	< .01	< 5	3	< 2	44
97-398 0160-0180	1	0.78	28	< 3	53	2	2.14	0.4	2	3	8	2.26	50	0.29	12	0.13	652	1	0.03	2	0.037	21	4	105	4	< .01	< 5	3	< 2	71
97-398 0180-0200	0.7	0.82	21	< 3	55	< 2	6.51	0.4	4	2	5	2.3	< 10	0.23	10	0.25	1714	1	0.03	2	0.031	18	3	228	2	< .01	< 5	3	< 2	85
97-398 0200-0220	0.3	1.04	13	< 3	41	2	4.49	0.8	3	1	4	2.36	< 10	0.28	19	0.32	1795	< 1	0.03	1	0.043	25	< 2	172	2	< .01	7	2	< 2	82
97-398 0220-0240	0.9	0.71	22	< 3	44	< 2	1.28	0.6	1	2	6	2.24	15	0.29	19	0.15	488	1	0.04	2	0.035	32	4	81	3	< .01	8	1	< 2	63
97-398 0240-0260	1.1	0.76	50	< 3	30	< 2	3.65	0.9	1	2	7	2.77	15	0.31	13	0.11	772	1	0.04	1	0.036	31	3	179	3	< .01	< 5	1	< 2	79
97-398 0260-0280	0.6	0.74	40	< 3	63	< 2	1.44	0.6	1	4	9	2.73	20	0.29	18	0.05	548	1	0.05	3	0.029	26	3	77	5	< .01	5	2	< 2	34
97-398 0280-0300	< .3	0.64	19	< 3	70	< 2	1.75	0.6	< 1	3	6	1.94	10	0.25	21	0.05	681	< 1	0.04	2	0.029	23	< 2	97	4	< .01	< 5	1	< 2	38
97-398 0300-0320	< .3	0.7	7	< 3	125	< 2	1.56	0.5	< 1	2	7	1.78	< 10	0.27	25	0.06	520	< 1	0.05	2	0.036	30	< 2	91	4	< .01	7	1	< 2	50
97-398 0320-0340	0.8	0.71	21	< 3	98	3	1.39	0.7	1	1	6	1.82	10	0.25	22	0.09	676	1	0.04	< 1	0.04	22	< 2	85	3	< .01	13	1	< 2	76
97-398 0340-0360	< .3	0.77	8	< 3	255	9	2.09	0.4	1	2	6	1.73	30	0.28	29	0.09	794	1	0.04	1	0.036	23	< 2	105	3	< .01	8	1	< 2	79
97-398 0360-0380	< .3	0.63	4	< 3	203	< 2	1.69	0.4	1	3	5	1.5	10	0.33	34	0.08	590	< 1	0.04	2	0.043	21	< 2	135	5	0.01	< 5	3	< 2	47
97-398 0380-0400	< .3	0.78	4	3	151	< 2	1.51	0.2	1	2	6	1.71	< 10	0.34	36	0.12	673	< 1	0.05	2	0.056	21	< 2	133	4	0.02	< 5	3	< 2	60
97-398 0400-0420	0.3	0.83	19	< 3	117	< 2	2.61	0.6	2	3	5	2.52	10	0.32	27	0.15	1012	1	0.05	2	0.058	18	< 2	172	4	0.01	< 5	4	< 2	78
97-398 0420-0440	< .3	0.55	11	3	235	2	1.18	0.2	1	4	5	2.3	10	0.27	32	0.07	553	1	0.06	3	0.042	20	3	138	6	0.02	7	3	< 2	53
97-398 0440-0460	0.3	0.46	13	< 3	110	< 2	0.94	0.3	1	3	5	2	60	0.25	36	0.04	498	1	0.06	2	0.039	19	2	123	6	0.03	< 5	2	< 2	47
97-398 0460-0480	< .3	0.66	17	< 3	157	< 2	1.29	0.4	1	3	5	1.71	55	0.29	33	0.07	939	< 1	0.06	2	0.044	35	2	161	4	< .01	< 5	2	< 2	59
97-398 0480-0500	< .3	0.79	5	< 3	585	< 2	0.59	0.5	1	1	4	1.31	30	0.33	36	0.09	393	< 1	0.05	1	0.041	18	< 2	183	4	< .01	< 5	1	< 2	50
97-398 0500-0520	< .3	0.79	9	< 3	516	< 2	1.11	0.3	2	2	6	1.51	20	0.33	37	0.09	651	3	0.05	2	0.038	23	2	180	5	< .01	6	1	< 2	58
97-398 0520-0540	< .3	0.87	12	< 3	298	< 2	1.51	0.4	2	4	7	1.92	20	0.35	38	0.09	742	2	0.06	4	0.037	24	2	140	5	< .01	< 5	3	< 2	56
97-398 0540-0560	< .3	0.86	10	< 3	155	< 2	1.29	0.3	2	4	6	1.88	25	0.33	38	0.1	586	4	0.06	4	0.034	20	< 2	139	5	< .01	< 5	2	< 2	63
97-398 0560-0580	0.4	0.93	16	< 3	230	2	1.95	0.5	2	6	8	2.36	20	0.31	37	0.13	738	7	0.05	6	0.037	25	4	164	6	< .01	< 5	3	< 2	65
97-398 0580-0600	< .3	0.89	9	< 3	186	3	1.48	0.3	3	8	9	2.28	15	0.28	49	0.1	728	4	0.06	8	0.03	23	2	114	9	< .01	5	7	< 2	78
97-398 0600-0620	< .3	0.95	9	< 3	129	< 2	1.31	0.4	3	10	9	2.29	20	0.26	49	0.12	511	5	0.06	8	0.038	21	2	125	8	< .01	< 5	8	< 2	75
97-398 0620-0640	< .3	1.01	7	< 3	128	7	1.54	0.4	1	5	7	2.5	< 10	0.29	37	0.15	598	12	0.05	3	0.034	22	< 2	187	7	< .01	< 5	2	< 2	66
97-398 0640-0660	< .3	0.79	9	< 3	141	2	0.67	0.4	< 1	3	7	1.9	30	0.28	48	0.1	383	4	0.06	2	0.016	19	< 2	119	11	< .01	< 5	1	< 2	63
97-398 0660-0680	< .3	1.05	5	< 3	74	2	1.8	0.6	3	12	9	1.67	15	0.35	45	0.18	534	5	0.05	12	0.034	27	< 2	193	9	< .01	8	6	< 2	67
STANDARD C3	5.8	1.94	57	21	147	20	0.63	24.1	12	166	64	3.72	910	0.17	18	0.71	781	25	0.04	38	0.095	36	15	29	19	0.09	24	77	18	161

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CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP045123
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-398 0680-0700	0.3	0.95	12	3	77	3	1.64	0.7	5	17	13	2.36	20	0.23	58	0.14	686	5	0.05	21	0.05	24	< 2	120	10	< .01	< 5	12	< 2	69
97-398 0700-0720	0.3	0.66	10	< 3	57	3	1.14	1.1	1	6	6	1.75	30	0.23	71	0.08	668	18	0.04	6	0.02	35	< 2	100	14	< .01	< 5	4	< 2	101
97-398 0720-0740	< .3	0.59	7	< 3	39	4	1.18	0.6	< 1	3	4	1.78	35	0.22	76	0.05	837	17	0.04	2	0.014	34	< 2	89	16	0.01	< 5	2	< 2	100
97-398 0740-0760	< .3	0.58	8	< 3	58	2	0.88	0.7	< 1	3	5	1.64	30	0.25	78	0.04	607	6	0.04	2	0.013	34	< 2	77	15	< .01	5	1	< 2	79
97-398 0760-0780	< .3	0.57	4	< 3	80	3	0.75	0.4	< 1	3	4	1.32	35	0.24	76	0.03	508	5	0.04	1	0.012	24	< 2	69	16	< .01	< 5	1	< 2	57
97-398 0780-0800	0.3	0.36	6	< 3	77	2	0.73	< .2	< 1	3	7	1.29	35	0.24	75	0.02	395	4	0.05	1	0.013	25	< 2	67	16	0.01	< 5	1	< 2	52
97-398 0800-0820	0.4	0.29	7	< 3	43	< 2	0.76	0.2	< 1	3	4	1.09	85	0.25	70	0.02	324	4	0.05	2	0.012	27	2	66	16	0.01	< 5	1	< 2	31
97-398 0820-0840	< .3	0.28	4	< 3	42	< 2	0.75	0.3	< 1	2	3	1.04	20	0.22	71	0.01	386	1	0.05	1	0.011	22	< 2	72	16	0.01	< 5	1	< 2	25
97-398 0840-0860	< .3	0.29	8	< 3	106	< 2	0.75	< .2	< 1	3	3	1.28	20	0.21	74	0.01	659	1	0.05	1	0.01	16	2	72	16	< .01	< 5	1	< 2	37
97-398 0860-0880	< .3	0.23	15	< 3	53	< 2	0.64	0.2	< 1	3	4	1.63	25	0.18	73	0.03	616	1	0.04	1	0.011	12	< 2	64	15	< .01	< 5	1	< 2	51
97-398 0880-0900	< .3	0.23	17	< 3	90	4	0.82	< .2	< 1	3	3	1.77	25	0.19	67	0.03	713	1	0.04	2	0.01	13	< 2	66	14	< .01	12	1	< 2	49
97-398 0900-0920	< .3	0.24	18	< 3	139	< 2	0.82	< .2	< 1	4	4	1.63	20	0.17	67	0.02	703	1	0.04	3	0.01	16	< 2	73	14	< .01	< 5	1	< 2	46
97-398 0920-0940	< .3	0.27	13	< 3	152	< 2	1.03	< .2	< 1	4	4	1.74	25	0.18	64	0.02	633	1	0.05	2	0.009	17	< 2	79	15	< .01	< 5	1	< 2	24
97-398 0940-0960	< .3	0.32	6	< 3	97	2	1.22	< .2	< 1	4	3	1.75	20	0.22	67	0.02	572	2	0.04	2	0.01	24	< 2	99	16	0.01	5	1	3	24
97-398 0960-0980	< .3	0.34	3	< 3	82	< 2	0.96	< .2	< 1	4	3	1.25	15	0.24	65	0.02	387	2	0.04	1	0.01	20	< 2	98	16	0.01	< 5	1	2	49
97-398 0980-1000	< .3	0.36	< 2	< 3	85	< 2	0.79	< .2	< 1	4	3	1.22	15	0.24	69	0.02	276	2	0.04	2	0.01	20	< 2	99	17	0.01	< 5	1	< 2	59
97-398 1000-1020	0.3	0.49	2	< 3	36	< 2	0.86	< .2	< 1	5	5	1.28	25	0.27	69	0.02	310	2	0.04	2	0.01	24	< 2	81	18	< .01	< 5	2	< 2	69
97-398 1020-1040	0.3	0.51	4	< 3	55	3	0.61	< .2	< 1	4	5	1.54	20	0.26	62	0.02	442	2	0.04	2	0.009	25	< 2	65	16	< .01	< 5	1	< 2	61
97-398 1040-1060	< .3	0.57	4	< 3	34	< 2	0.67	< .2	< 1	4	4	1.53	25	0.3	68	0.02	525	2	0.04	2	0.009	21	< 2	81	17	< .01	< 5	1	< 2	74
97-398 1060-1080	< .3	0.67	4	< 3	72	3	0.72	< .2	< 1	7	4	1.94	20	0.26	69	0.02	806	3	0.04	3	0.01	23	< 2	88	17	< .01	< 5	1	< 2	74
97-398 1080-1100	0.3	0.61	2	< 3	95	< 2	0.83	1.1	< 1	5	4	1.67	15	0.26	63	0.02	756	3	0.04	2	0.009	25	< 2	88	15	< .01	< 5	2	< 2	86
STANDARD C3	6	1.94	58	21	154	24	0.61	25.1	11	163	65	3.57	940	0.16	19	0.69	767	25	0.04	36	0.095	34	14	30	20	0.09	16	77	16	160

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ANALYSIS REPORT SP046135

American Assay Laboratories

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NEWMONT GOLD COMPANY

COPIES TO : CHARLOTTE BALLEW
: RICK LISLE
: RANDY VANCE
: KURT ALLEN

CLIENT REFERENCE No: 97-398 RECEIVED : 27 AUG 1997

No. SAMPLES : 82 REPORTED : 27 AUG 1997

MAIN SAMPLE TYPE : DRILL CUTTINGS

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 SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1100-1105	<5		<0.001		<0.5	<0.02
97-398 1105-1110	<5		<0.001		<0.5	<0.02
97-398 1110-1115	<5		<0.001		<0.5	<0.02
97-398 1115-1120	<5		<0.001		<0.5	<0.02
97-398 1120-1125	<5		<0.001		<0.5	<0.02
97-398 1125-1130	<5		<0.001		<0.5	<0.02
97-398 1130-1135	<5		<0.001		<0.5	<0.02
97-398 1135-1140	<5		<0.001		<0.5	<0.02
97-398 1140-1145	<5		<0.001		<0.5	<0.02
97-398 1145-1150	144		0.004		<0.5	<0.02
97-398 1150-1155	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1155-1160	<5		<0.001		<0.5	<0.02
97-398 1160-1165	<5		<0.001		<0.5	<0.02
97-398 1165-1170	<5		<0.001		<0.5	<0.02
97-398 1170-1175	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1175-1180	<5		<0.001		<0.5	<0.02
97-398 1180-1185	<5		<0.001		<0.5	<0.02
97-398 1185-1190	<5		<0.001		<0.5	<0.02
97-398 1190.0-1194.5	<5		<0.001		<0.5	<0.02
97-398 1194.5-1200.0	<5		<0.001		<0.5	<0.02
97-398 1200.0-1204.5	<5		<0.001		<0.5	<0.02
97-398 1204.5-1210.0	<5		<0.001		<0.5	<0.02
97-398 1210.0-1214.5	<5		<0.001		<0.5	<0.02
97-398 1214.5-1220.0	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1220.0-1224.5	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1224.5-1228.0	<5		<0.001		<0.5	<0.02
97-398 1228.0-1234.5	<5		<0.001		<0.5	<0.02
97-398 1234.5-1240.0	<5		<0.001		<0.5	<0.02
97-398 1240.0-1244.5	<5		<0.001		<0.5	<0.02
97-398 1244.5-1249.0	<5		<0.001		<0.5	<0.02
97-398 1249.0-1254.3	<5		<0.001		<0.5	<0.02
97-398 1254.3-1260.0	<5		<0.001		<0.5	<0.02
97-398 1260.0-1264.6	<5		<0.001		<0.5	<0.02
97-398 1264.6-1270.0	<5		<0.001		<0.5	<0.02
97-398 1270.0-1274.6	46		0.001		<0.5	<0.02
97-398 1274.6-1280.0	1484		0.043		1.3	0.04
97-398 1280.0-1284.6	10		<0.001		<0.5	<0.02
97-398 1284.6-1290.0	<5		<0.001		<0.5	<0.02
97-398 1290.0-1294.6	<5		<0.001		<0.5	<0.02
97-398 1294.6-1300.0	<5		<0.001		<0.5	<0.02
97-398 1300.0-1304.6	<5		<0.001		<0.5	<0.02
97-398 1304.6-1310.0	<5		<0.001		<0.5	<0.02
97-398 1310.0-1314.6	<5		<0.001		<0.5	<0.02
97-398 1314.6-1320.0	<5	<5	<0.001	<0.001	<0.5	<0.02
97-398 1320.0-1324.6	<5		<0.001		<0.5	<0.02
97-398 1324.6-1330.0	<5		<0.001		<0.5	<0.02
97-398 1330.0-1334.5	8		<0.001		<0.5	<0.02
97-398 1334.5-1340.0	16		<0.001		<0.5	<0.02
97-398 1340.0-1344.5	8		<0.001		<0.5	<0.02
97-398 1344.5-1350.9	<5		<0.001		<0.5	<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1350.9-1353.0	<5		<0.001		<0.5	<0.02
97-398 1353.0-1354.5	52		0.002		1.6	0.05
97-398 1354.5-1358.5	56		0.002		0.9	0.03
97-398 1358.5-1359.7	60		0.002		3.5	0.10
97-398 1359.7-1362.5	78		0.002		4.3	0.13
97-398 1362.5-1364.5	24		<0.001		3.1	0.09
97-398 1364.5-1366.5	60		0.002		1.9	0.06
97-398 1366.5-1370.5	18		<0.001		0.8	0.02
97-398 1370.5-1372.5	17		<0.001		1.3	0.04
97-398 1372.5-1373.4	12		<0.001		6.1	0.18
97-398 1373.4-1374.5	<5		<0.001		1.2	0.04
97-398 1374.5-1377.4	14		<0.001		0.6	<0.02
97-398 1377.4-1378.3	76		0.002		6.7	0.20
97-398 1378.3-1380.0	<5		<0.001		<0.5	<0.02
97-398 1380-1385	14		<0.001		0.7	0.02
97-398 1385.0-1390.5	68		0.002		1.7	0.05
97-398 1390.5-1395.4	12		<0.001		1.5	0.04
97-398 1395.4-1400.0	10		<0.001		1.1	0.03
97-398 1400.0-1405.1	<5		<0.001		1.0	0.03
97-398 1405.1-1410.1	48		0.001		1.8	0.05
97-398 1410.1-1414.5	<5		<0.001		<0.5	<0.02
97-398 1414.5-1418.0	48		0.001		0.8	0.02
97-398 1418.0-1420.9	<5		<0.001		1.1	0.03
97-398 1420.9-1426.1	<5		<0.001		1.3	0.04
97-398 1426.1-1430.0	<5		<0.001		1.3	0.04

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP046135

American Assay Laboratories

CLIENT : NEWMONT GOLD COMPANY
PROJECT : ROSEBUD
REFERENCE : 97-398

REPORTED : 27 AUG 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT
97-398 1430-1433	<5	<5	<0.001	<0.001	0.9	0.03
97-398 1433.0-1439.5	<5		<0.001		0.7	0.02
97-398 1439.5-1445.7	62		0.002		1.4	0.04
97-398 1445.7-1451.7	<5		<0.001		0.9	0.03
97-398 1451.7-1456.0	<5		<0.001		0.6	<0.02
97-398 1456-1461	<5		<0.001		1.3	0.04
97-398 1463.2-1465.0	<5		<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	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
	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	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.

AMERICAN ASSAY LABORATORIES
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SPARKS, NV 89431
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CLIENT: *NEWMONT EXPLORATION Ltd.*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046135
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-398 1100-1120	< .3	0.6	4	4	98	< 3	0.74	0.4	1	3	6	1.72	15	0.26	63	0.02	692	6	0.05	1	0.009	30	< 3	80	16	< .01	< 8	1	< 2	93
97-398 1120-1140	< .3	0.64	2	3	162	4	0.72	< .2	1	2	5	1.85	< 10	0.23	64	0.02	792	5	0.05	1	0.008	27	< 3	73	15	< .01	< 8	< 1	< 2	69
97-398 1140-1160	< .3	0.66	< 2	< 3	53	5	0.61	< .2	1	2	5	2.02	< 10	0.25	65	0.03	905	3	0.06	1	0.009	28	< 3	66	14	< .01	< 8	1	< 2	73
97-398 1160-1180	< .3	0.7	< 2	< 3	32	< 3	0.66	< .2	1	2	4	1.99	< 10	0.25	68	0.03	837	2	0.06	< 1	0.01	25	< 3	65	15	< .01	< 8	1	< 2	68
97-398 1180-1200	< .3	0.72	5	3	17	4	0.68	0.3	< 1	4	7	2.12	15	0.27	63	0.02	615	2	0.07	2	0.01	22	< 3	66	16	< .01	< 8	1	< 2	65
97-398 1200-1220	< .3	0.58	4	< 3	67	4	0.55	< .2	1	5	8	2.09	25	0.26	71	0.02	792	8	0.07	2	0.01	22	< 3	49	17	< .01	< 8	1	< 2	56
97-398 1220-1240	< .3	0.95	3	3	17	< 3	0.77	< .2	1	4	7	2.97	15	0.23	58	0.03	1723	21	0.06	1	0.011	26	< 3	40	13	< .01	< 8	1	< 2	92
97-398 1240-1260	< .3	1.03	2	< 3	14	< 3	1.16	< .2	< 1	2	7	2.72	20	0.28	55	0.06	762	3	0.04	< 1	0.013	33	< 3	62	12	< .01	< 8	1	< 2	92
97-398 1260-1280	0.5	0.86	15	< 3	39	< 3	0.96	< .2	1	3	10	2.86	10	0.22	47	0.04	3093	3	0.05	2	0.008	23	< 3	49	11	< .01	< 8	1	< 2	74
97-398 1280-1300	< .3	0.61	2	3	17	< 3	0.92	< .2	< 1	3	5	2.06	< 10	0.21	48	0.02	1109	1	0.05	3	0.008	23	< 3	53	12	< .01	< 8	1	< 2	46
97-398 1300-1320	0.4	0.57	5	3	17	< 3	0.91	< .2	1	3	8	1.77	< 10	0.23	57	0.02	696	1	0.05	< 1	0.008	26	< 3	55	15	< .01	< 8	1	< 2	55
97-398 1320-1340	< .3	0.71	19	< 3	124	< 3	1.17	0.2	1	3	17	1.96	< 10	0.21	45	0.07	1115	5	0.04	2	0.007	29	4	99	11	< .01	< 8	1	< 2	74
97-398 1340.0-1354.5	0.4	0.54	27	3	53	< 3	6.6	0.3	1	2	70	1.62	20	0.18	23	0.06	2050	16	0.02	1	0.004	15	< 3	297	5	< .01	< 8	1	< 2	69
97-398 1354.5-1364.5	2.5	0.75	101	5	37	< 3	1.36	< .2	< 1	2	9	2.44	65	0.37	38	0.04	498	177	0.02	< 1	0.005	28	7	144	9	< .01	< 8	< 1	< 2	67
97-398 1364.5-1373.4	2.1	0.66	35	< 3	53	< 3	2.08	< .2	1	2	2	1.32	155	0.32	48	0.04	865	139	0.02	1	0.008	26	7	198	13	< .01	< 8	1	< 2	75
97-398 1373.4-1380.0	1.8	0.79	66	4	34	< 3	1.9	< .2	< 1	1	2	2.22	95	0.35	34	0.05	792	121	0.02	3	0.008	29	8	196	9	< .01	< 8	1	< 2	49
97-398 1380-1400	0.9	0.84	63	< 3	64	< 3	1.8	< .2	1	2	5	1.41	65	0.38	50	0.05	985	48	0.02	1	0.007	23	5	135	12	< .01	< 8	< 1	< 2	56
97-398 1400-1418	0.8	0.67	67	< 3	61	4	2.64	0.2	1	1	44	1.6	40	0.27	42	0.05	876	40	0.02	< 1	0.006	30	5	238	11	< .01	< 8	< 1	< 2	73
97-398 1418-1433	0.8	0.28	35	3	56	5	9.59	4.2	5	5	38	1.92	40	0.14	3	0.46	617	31	0.01	48	0.069	13	8	634	2	< .01	< 8	11	< 2	340
97-398 1433-1456	0.6	0.23	50	< 3	62	< 3	8.11	3.6	4	5	29	2.02	20	0.12	3	0.33	443	23	0.01	43	0.075	4	9	479	2	< .01	< 8	8	< 2	292
97-398 1456-1465	0.8	0.26	34	5	95	< 3	10.03	0.8	6	4	36	2.48	30	0.13	3	0.7	446	27	0.01	53	0.087	10	10	564	2	< .01	< 8	7	< 2	96
STANDARD C3	5.5	1.98	53	19	144	26	0.61	23.6	12	175	66	3.55	1000	0.17	19	0.63	769	26	0.04	32	0.09	40	16	31	19	0.1	24	84	23	165

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	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
	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	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.

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

CLIENT: *NEWMONT EXPLORATION Ltd.*
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP046135
METHOD: AAL 01-2

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm
97-398 1100-1120	< .3	0.6	4	4	98	< 3	0.74	0.4	1	3	6	1.72	15	0.26	63	0.02	692	6	0.05	1	0.009	30	< 3	80	16	< .01	< 8	1	< 2	93
97-398 1120-1140	< .3	0.64	2	3	162	4	0.72	< .2	1	2	5	1.85	< 10	0.23	64	0.02	792	5	0.05	1	0.008	27	< 3	73	15	< .01	< 8	< 1	< 2	69
97-398 1140-1160	< .3	0.66	< 2	< 3	53	5	0.61	< .2	1	2	5	2.02	< 10	0.25	65	0.03	905	3	0.06	1	0.009	28	< 3	66	14	< .01	< 8	1	< 2	73
97-398 1160-1180	< .3	0.7	< 2	< 3	32	< 3	0.66	< .2	1	2	4	1.99	< 10	0.25	68	0.03	837	2	0.06	< 1	0.01	25	< 3	65	15	< .01	< 8	1	< 2	68
97-398 1180-1200	< .3	0.72	5	3	17	4	0.68	0.3	< 1	4	7	2.12	15	0.27	63	0.02	615	2	0.07	2	0.01	22	< 3	66	16	< .01	< 8	1	< 2	65
97-398 1200-1220	< .3	0.58	4	< 3	67	4	0.55	< .2	1	5	8	2.09	25	0.26	71	0.02	792	8	0.07	2	0.01	22	< 3	49	17	< .01	< 8	1	< 2	56
97-398 1220-1240	< .3	0.95	3	3	17	< 3	0.77	< .2	1	4	7	2.97	15	0.23	58	0.03	1723	21	0.06	1	0.011	26	< 3	40	13	< .01	< 8	1	< 2	92
97-398 1240-1260	< .3	1.03	2	< 3	14	< 3	1.16	< .2	< 1	2	7	2.72	20	0.28	55	0.06	762	3	0.04	< 1	0.013	33	< 3	62	12	< .01	< 8	1	< 2	92
97-398 1260-1280	0.5	0.86	15	< 3	39	< 3	0.96	< .2	1	3	10	2.86	10	0.22	47	0.04	3093	3	0.05	2	0.008	23	< 3	49	11	< .01	< 8	1	< 2	74
97-398 1280-1300	< .3	0.61	2	3	17	< 3	0.92	< .2	< 1	3	5	2.06	< 10	0.21	48	0.02	1109	1	0.05	3	0.008	23	< 3	53	12	< .01	< 8	1	< 2	46
97-398 1300-1320	0.4	0.57	5	3	17	< 3	0.91	< .2	1	3	8	1.77	< 10	0.23	57	0.02	696	1	0.05	< 1	0.008	26	< 3	55	15	< .01	< 8	1	< 2	55
97-398 1320-1340	< .3	0.71	19	< 3	124	< 3	1.17	0.2	1	3	17	1.96	< 10	0.21	45	0.07	1115	5	0.04	2	0.007	29	4	99	11	< .01	< 8	1	< 2	74
97-398 1340.0-1354.5	0.4	0.54	27	3	53	< 3	6.6	0.3	1	2	70	1.62	20	0.18	23	0.06	2050	16	0.02	1	0.004	15	< 3	297	5	< .01	< 8	1	< 2	69
97-398 1354.5-1364.5	2.5	0.75	101	5	37	< 3	1.36	< .2	< 1	2	9	2.44	65	0.37	38	0.04	498	177	0.02	< 1	0.005	28	7	144	9	< .01	< 8	< 1	< 2	67
97-398 1364.5-1373.4	2.1	0.66	35	< 3	53	< 3	2.08	< .2	1	2	2	1.32	155	0.32	48	0.04	865	139	0.02	1	0.008	26	7	198	13	< .01	< 8	1	< 2	75
97-398 1373.4-1380.0	1.8	0.79	66	4	34	< 3	1.9	< .2	< 1	1	2	2.22	95	0.35	34	0.05	792	121	0.02	3	0.008	29	8	196	9	< .01	< 8	1	< 2	49
97-398 1380-1400	0.9	0.84	63	< 3	64	< 3	1.8	< .2	1	2	5	1.41	65	0.38	50	0.05	985	48	0.02	1	0.007	23	5	135	12	< .01	< 8	< 1	< 2	56
97-398 1400-1418	0.8	0.67	67	< 3	61	4	2.64	0.2	1	1	44	1.6	40	0.27	42	0.05	876	40	0.02	< 1	0.006	30	5	238	11	< .01	< 8	< 1	< 2	73
97-398 1418-1433	0.8	0.28	35	3	56	5	9.59	4.2	5	5	38	1.92	40	0.14	3	0.46	617	31	0.01	48	0.069	13	8	634	2	< .01	< 8	11	< 2	340
97-398 1433-1456	0.6	0.23	50	< 3	62	< 3	8.11	3.6	4	5	29	2.02	20	0.12	3	0.33	443	23	0.01	43	0.075	4	9	479	2	< .01	< 8	8	< 2	292
97-398 1456-1465	0.8	0.26	34	5	95	< 3	10.03	0.8	6	4	36	2.48	30	0.13	3	0.7	446	27	0.01	53	0.087	10	10	564	2	< .01	< 8	7	< 2	96
STANDARD C3	5.5	1.98	53	19	144	26	0.61	23.6	12	175	66	3.55	1000	0.17	19	0.63	769	26	0.04	32	0.09	40	16	31	19	0.1	24	84	23	165

WELLBORE NAVIGATION, INC.
TUSTIN, CALIFORNIA

JOB NUMBER: 29-0521-311 WELL NAME: 97-398 / VERTICAL

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
50.0	50.00	0.04	0.072	-89.81	326.52	0.07 N	0.05 W	0.38	0.19	0.08	AT 326.52
100.0	100.00	0.08	0.637	-88.87	356.26	0.63 N	0.12 W	1.94	0.97	0.64	AT 348.90
150.0	149.98	0.22	1.684	-88.69	342.06	1.67 N	0.33 W	0.70	0.35	1.70	AT 348.74
200.0	199.98	0.48	2.636	-89.05	339.57	2.60 N	0.65 W	0.73	0.36	2.68	AT 345.90
250.0	249.97	0.77	3.337	-89.20	326.96	3.28 N	0.99 W	0.49	0.24	3.42	AT 343.24
300.0	299.96	1.17	3.882	-89.23	311.78	3.80 N	1.43 W	0.42	0.21	4.06	AT 339.38
350.0	349.96	1.68	4.289	-89.27	297.92	4.17 N	1.96 W	0.37	0.19	4.61	AT 334.81
400.0	399.95	2.79	4.413	-88.07	263.23	4.22 N	3.08 W	2.79	1.39	5.22	AT 323.89
450.0	449.91	4.71	4.336	-87.53	264.47	4.02 N	4.99 W	1.08	0.54	6.40	AT 308.84
500.0	499.85	7.21	4.273	-86.73	264.99	3.79 N	7.48 W	1.60	0.80	8.38	AT 296.86
550.0	549.75	10.32	4.118	-86.13	261.97	3.43 N	10.57 W	1.26	0.63	11.11	AT 287.96
600.0	599.62	13.88	3.853	-85.69	261.92	2.93 N	14.10 W	0.88	0.44	14.40	AT 281.73
650.0	649.47	17.78	3.519	-85.33	260.76	2.34 N	17.97 W	0.74	0.37	18.12	AT 277.41
700.0	699.31	21.75	3.106	-85.50	259.75	1.66 N	21.91 W	0.38	0.19	21.97	AT 274.34
750.0	749.17	25.42	2.712	-86.04	260.46	1.03 N	25.54 W	1.09	0.54	25.56	AT 272.30
800.0	799.06	28.75	2.339	-86.27	259.15	0.43 N	28.84 W	0.49	0.25	28.85	AT 270.86
850.0	848.96	31.84	1.944	-86.58	258.66	0.17 S	31.90 W	0.62	0.31	31.90	AT 269.70
900.0	898.87	34.78	1.526	-86.62	257.56	0.78 S	34.80 W	0.15	0.08	34.81	AT 268.72
950.0	948.79	37.63	1.070	-86.75	256.66	1.42 S	37.62 W	0.28	0.14	37.65	AT 267.84
1000.0	998.72	40.29	0.668	-87.10	258.66	2.00 S	40.24 W	0.73	0.37	40.29	AT 267.16
1100.0	1098.59	45.30	0.004	-87.10	258.67	2.99 S	45.20 W	0.00	0.00	45.30	AT 266.21

```
*************************************************************
*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  1100.0 FEET EQUALS    45.30   FEET AT  266.21             *
*                          ********                         *
*************************************************************
```

operations

WELLBORE NAVIGATION, INC.
TUSTIN, CALIFORNIA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* NEWMONT ROSEBUD *
****

JOB NUMBER: 29-0521-311

WELL NAME: 97-398 / VERTICAL

LOCATION: ROSEBUD

SURVEY DATE: 6-25-97

SURVEY ENGINEER: KENT CHILD

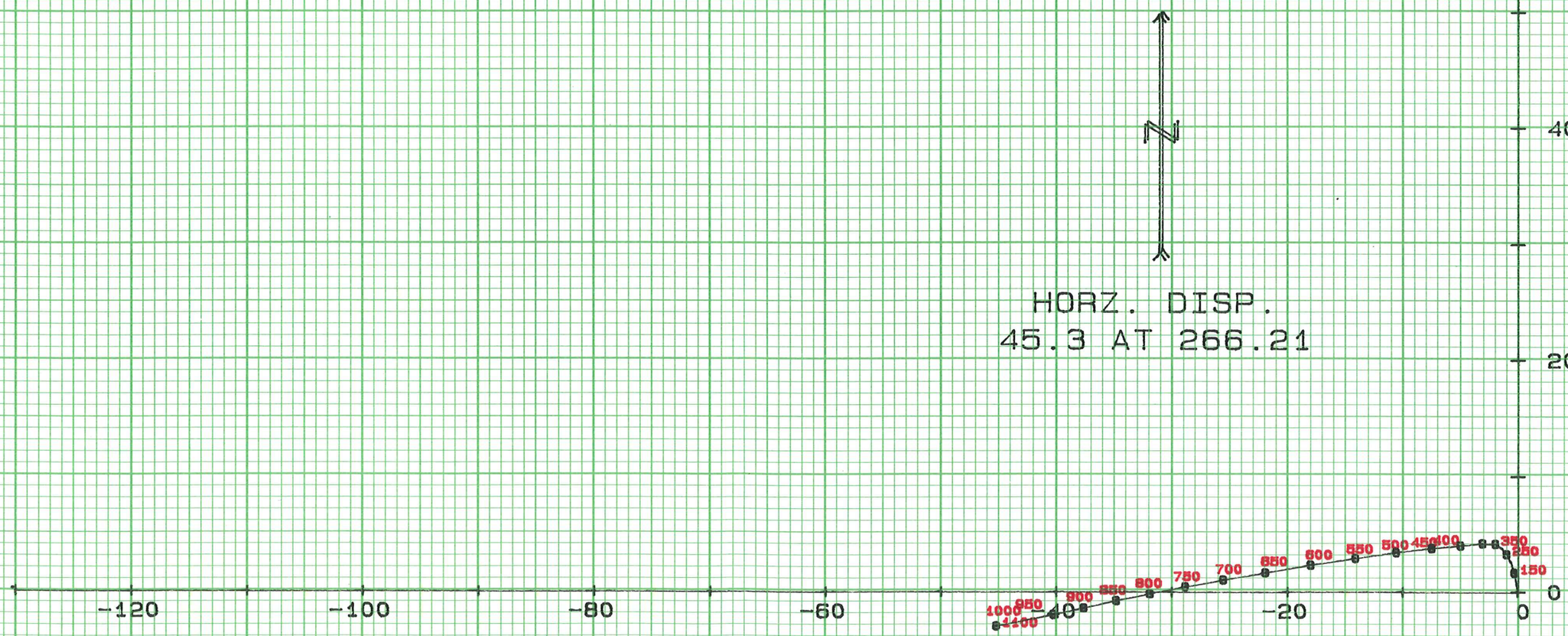
GYRO REFERENCE BEARING: TRUE NORTH

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

COMMENTS: EKLUND DRILLING
JOHN WELCH
PROJECTED F/1000 T/1100
SILT IN PIPE AT 1000

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

WELLBORE NAVIGATION, INC.
HORIZONTAL PROJECTION
FOR
NEWMONT ROSEBUD
WELL NAME: 97-398 / VERTICAL
JOB NUMBER: 29-0521-311
DATE: 6-25-97
SCALE: 10 FT./INCH



CK PRINTING CENTER (801) 467-2841

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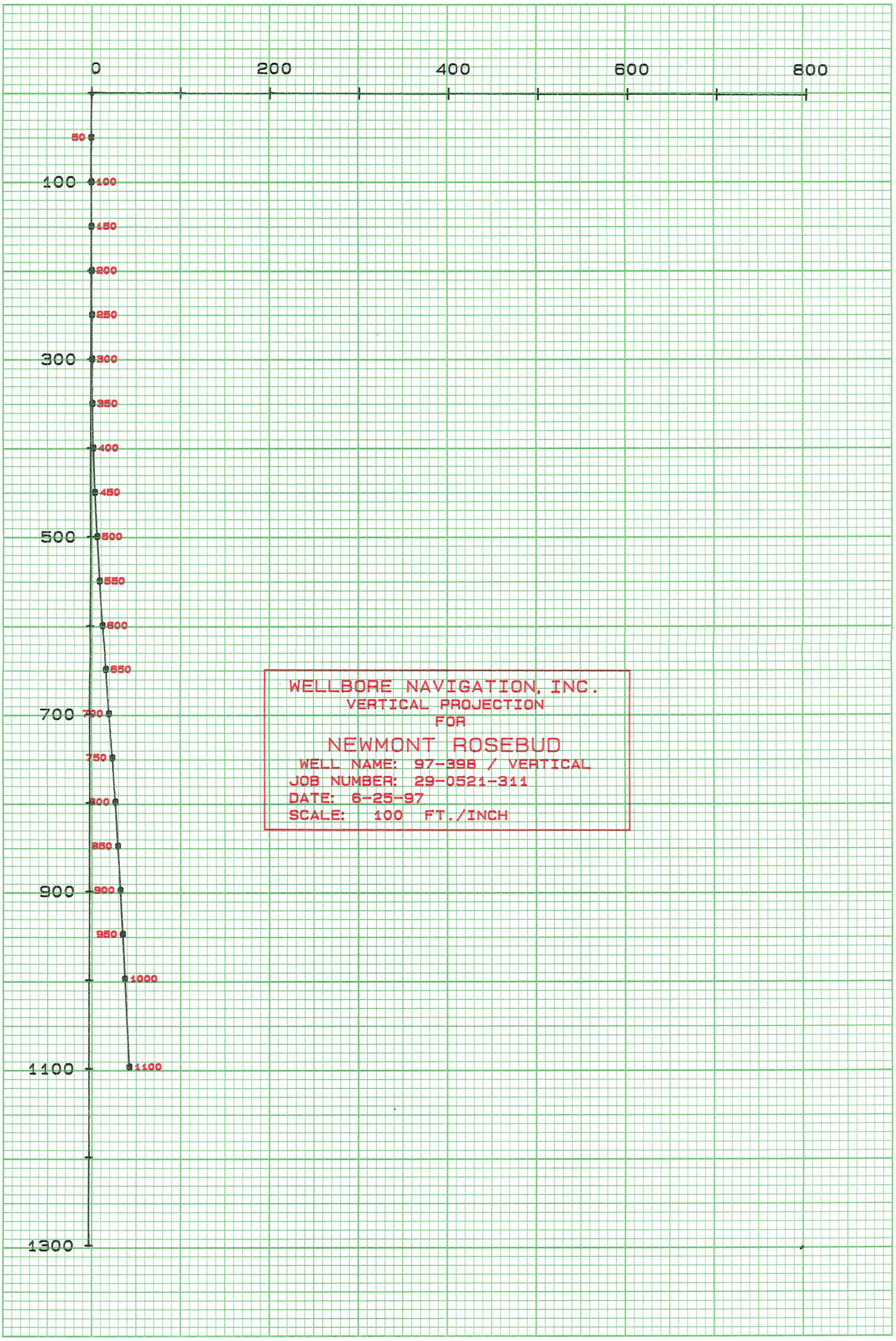


1110
1115
1123.9
97-398 BOX NO 2
DEPTH 1109.2 – 1116

1105
97-398 BOX NO 1
DEPTH 1100 – 1109.2

1130
1132
1135
97-398 BOX NO 4
DEPTH 1127 – 1136.2

1123.2
1125
1120
97-398 BOX NO 3
DEPTH 1116 – 1127

1150
1535
97-398 BOX NO 6
DEPTH 1145.5 – 1154.6

1140
1145
97-398 BOX NO 5
DEPTH 1136.2 – 1145.5

1165
1176
97-398 BOX NO 8
DEPTH 1164.2 – 1173.4

1160
1163.8
1155
97-398 BOX NO 7
DEPTH 1154.6 – 1164.2

1185
1190
97-398 BOX NO 10
DEPTH 1183 - 1192.3

1174
97-398 BOX NO 9
DEPTH 1173.4- 1183

97-398 BOX NO 12
DEPTH 1201.5- 1210.5

97-398 BOX NO 11
DEPTH 1192.3- 1201.5

1224.5
1220
97-398 BOX NO 14
DEPTH 1219. — 1227.5

1214.5
1210
97-398 BOX NO 13
DEPTH 1210.5— 1219.

1246.5
1240
97-398 BOX NO 16
DEPTH 1236.5 — 1246.2

1228
1237.5
97-398 BOX NO 15
DEPTH 1227.5 — 1236.5

1260
97-398 BOX NO 18
DEPTH 1255. - 1263.6

1249
1254.3
97-398 BOX NO 17
DEPTH 1246.2- 1255

1274
1280
97-398 BOX NO 20
DEPTH 1272.6- 1282.

1270
1264.6
97-398 BOX NO 19
DEPTH 1263.6- 1272.6

1284B
1300
97-398 BOX NO 22
DEPTH 1291. — 1301.

1284B
1290
97-398 BOX NO 21
DEPTH 1282. — 1291.

1314B
97-398 BOX NO 24
DEPTH 1310.6— 1319.8

1304B
1310
97-398 BOX NO 23
DEPTH 1301. — 1310.6

1334.5
1338
97-398 BOX NO 26
DEPTH 1329. — 1338.5

1324.6
1320
97-398 BOX NO 25
DEPTH 1319.8— 1329.

1348.9
1354.3
1353
97-398 BOX NO 28
DEPTH 1347.5— 1357.

1344.9
1340
97-398 BOX NO 27

1374.5
1372.5
1370.5
1368.4
1366.5
97-398 BOX NO 30
DEPTH 1366.5- 1374.5

1362.5
1359.5
1357.7
1367.5
97-398 BOX NO 29
DEPTH 1357. - 1366.5

1387.0
1390.5
1385.5
97-398 BOX NO 32
DEPTH 1385.5- 1392.6

1376.7
1384.5
1378.3
1380
97-398 BOX NO 31
DEPTH 1374.5- 1385.5

97-398 BOX NO 34
DEPTH 1402. - 1411.6

97-398 BOX NO 33
DEPTH 1392.6- 1402.

97-398 BOX NO 36
DEPTH 1419.5- 1428.5

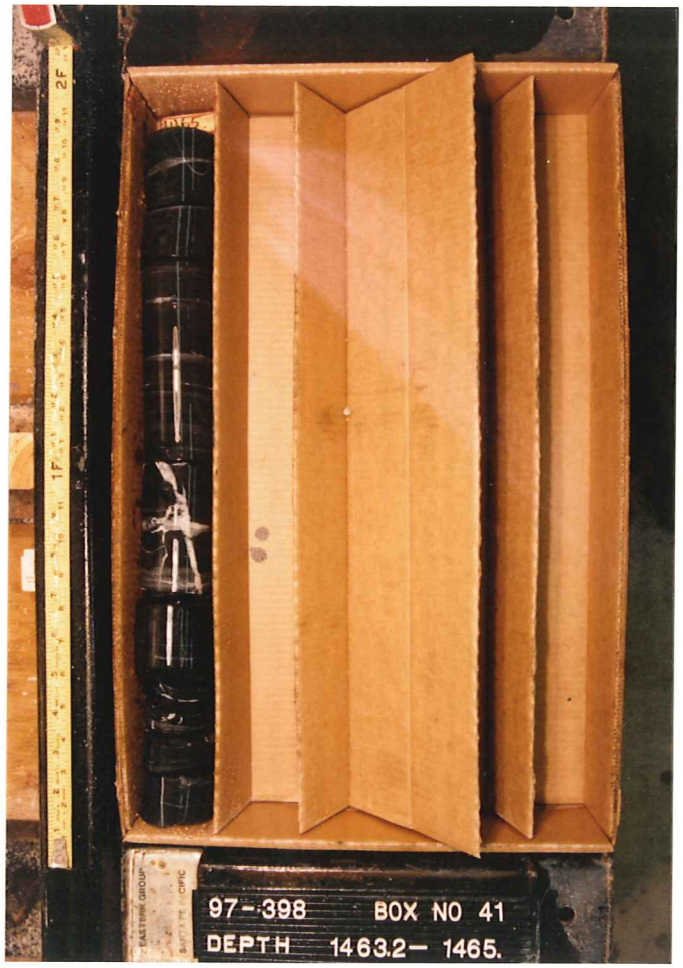
97-398 BOX NO 35
DEPTH 1411.6- 1419.5

97-398 BOX NO 38
DEPTH 1437.8- 1446.7

97-398 BOX NO 37
DEPTH 1428.5- 1437.8

97-398 BOX NO 40
DEPTH 1455.2- 1463.9

97-398 BOX NO 39
DEPTH 1446.7- 1455.2


97-398 BOX NO 41
DEPTH 1463.2- 1465.