60001464

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. 97-381
AUTHOR	R. Dixon; D Knudsen; R. Cornelea; D. Schoorl; C. Muerhoff; M. Williams; R. Romero; V. Reid. M. Ebert
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; North Dozer; Santa Fe Pacific Gold Corp.; Eklund Drilling
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 1482'; handwritten notes; directional survey; negatives; photographs; geochemistry 86p. 1 bag of negatives and extra photos

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

	Initials	Date
SS:	DD	5/22/08
DB:	Mah	
SCANNED:		

Revised: 1/22/08

97-381

66001464 4010

97-381

6000 1464

SANTA FE PACIFIC GOLD — DRILL HOLE SUMMARY

Project: Rosebud Location: North Dozer Drill Hole No.: 97-381

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

Purpose: Extension of Min., Strat Results: Lo. Gr. zones

Date Started: Date Finished: 3/25/97

Grid System: NV Northing: 2,204,968 Easting: 481,954 Elevation: 5,264

Collar Az/Inc.: — / -90 Drill Site: Total Depth: 1482.1

Geologist(s): HSM, RLD Log Date(s): 3/22 - 4/04 Laboratory: R.B. Mino

HOLE CONSTRUCTION AND HISTORY CASING (INTERVAL):

From	To	Hole Type/Size	Started	Completed	Contractor
0	1000	RC /		3/11/97	Eklund-Schoorl
1000	1482.1	Core / HQ		3/25/97	Longyear-Williams
		/			
		/			

LITHOLOGIC SUMMARY				ALTERATION/ MINERALIZATION	SIGNIFICANT ASSAYS				
From	To	Formation	Rock Type		From	To	Width	Au oz/st	Cutoff

DOWNHOLE SURVEYS

Directional Date:

Other

Depth (ft)	Azimuth	Inclination
	See Wetnav	Rpt

Water Table Depth:

Water Flow Rate:

COMMENTS

2 zones of Lo gr. mineraliz

Site selected by Rich Dixon & Mike Brady

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1
LOGD BY: RLD	STATE: Nevada County Pershing	EASTING:	BEARING: —
DATE: 3/22/97	SEC. T. N., E.	ELEVATION:	ANGLE: −90°

STARTED:
COMPLETED: 03/25/97
DRILLER: LONGYEAR

PAGE: 1/10
HOLE # 97-381

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			LITHOLOGY	STRUCT	ALTERATION/MINIZATION	STRAT	DALAST	COMMENTS	SAMPLIN
DEPTH	RECOVERY	RQD	ALUVUM, MUD, CGL, LITHTUF, PUMTUF, SURGE TUF, ASHFALL, ALAVA, AUTOBXA, INTRUSIV, BASALT, ANDESITE, RHYOLITE	TEC, BCOXA, ROCKEN, OUGE, VOID	Fe MIN: MNOX, HEMTITE, LIMONITE, PYRITE; PROPIL, ARGILLIC, ARGIL, PROPIL, SILICIFIED, QTZ VNS, CALCITE VNS, MET CALCITE	BADLAND, CONGLOMERATE, BOUDIN, BRAD, MKR PORE, BUD, LIDR OS, DOZER	DEPTH, LITHOLOGY, ALTERATION, STRAT		
998'									998'
	6.0 / 6.0	3.7 / 6.0			2			998'-1053.5' SURGE TUFF: LT TO MED GREEN FNG TO CSG, ANG LITHIC FRAGS, MOD PROP ALT'N, MATRIX & CLAST-SUPPORTED SECTIONS, ALT'D AND.	BOX 1
1005									1005.0
									1007.4
	10.0 / 10.0	9.2 / 10.0						BDG FLT, REVERSE MOVEMENT, 60°	
1010									1010.0
								REVERSE FLT @ 70° TO C.A., ½" CAL VEIN @ 70° TO C.A.	
								BDG @ 63° TO C.A.	2
1015									1015.0
									1016.9
	10.0 / 10.0	9.2 / 10.0							
1020								BDG @ 70° TO C.A.	1020.0
									3
1025									1025.0
									1026.0
	10.0 / 10.0	9.1 / 10.0							1030.0
1030								1031 ½" QTZ > CALC VEIN @ 35° TO C.A. @ 90° TO DIP OF BDG	4
								BDG @ 70° TO C.A.	1035.0
1035									1035.2
	10.0 / 10.0	8.9 / 10.0						BDG @ 50° TO C.A.	1040.0
1040									5
								1041'-1053.5' SURGE TUFF BECOMES COARSER GRAINED, UP TO 1" ANG BLEACHED ANDESITE CLASTS	
1045									1045.0
									1045.0
	7.0 / 7.0	4.6 / 7.0						1043-1053.5' EST. 3% BLACK ARGILLITE CLASTS (AULD LANG SEIN?)	6
1050									1050.0

PROJECT: Rosebud JV	UTM: NK 11--10--06 C	NORTHING:	TOTAL DEPTH: 1482.1	STARTED:	PAGE: 2/10
LOGD BY: RLD	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED: 03/25/97	HOLE # 97-381
DATE:	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	

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, RECOVERY, RQD

LITHOLOGY: ALUVIUM, MUD CGL, LITHIC TUFF, PUM TUFF, SURGE TUFF, LOUVAS, BAXA

STRUCT: TEC, BRX, GOUGE, VEIN

ALTERATION/MINERALIZATION: Fe MINOXIDE, HEMATITE, MIMETITE, PYRITE, PROPYLITIC, ARGILLIC, SILICIFIED, QTZ VEINS, CALCITE, MALACHITE

STRAT: BAD, CHOCOLATE, UBAD, BRADY, MKR, BUD, WILDER, DOZER

DEPTH, LITHOLOGY, ALTERATION, STRAT

COMMENTS

SAMPLE INTERVALS

Depth	Recovery	RQD
10.0	7.2	
10.0	10.0	
10.1	5.3	
10.1	10.1	
10.2	7.2	
10.2	10.2	
10.3	8.0	
10.3	10.3	
8.3	5.2	
8.3	8.3	

COMMENTS

SURGE TUFF: CONT.—

CHILLED 1.5' CONTACT @ 40° TO C.A.

1053.5'— MARKER PORPHYRY:

PALE GRN TO MED GRAY, UP TO 7-8 mm PLAG PHENOS, 2-3 mm. HNBL PHENOS, SCT'D 1/2" + GRAY ANDESITE LITHIC FRAGS, OCCAS. BANDING

1064.0' CHLORITIC FLT @ 15° TO C.A.

1066.0'-1098.0' ONLY SLIGHTLY FRAC'D, NUMEROUS 2.0' LENGTHS OF CORE

1073.0' FLOW(?) BANDING @ 35° TO C.A.

1083.0'-1098.0' SLIGHTLY BLEACHED

1088.0' FAINT BANDING @ 40° TO C.A.

1098' FLT @ 20° TO C.A. W/1" CHL GOUGE, SMEARED PY

1098.0'-1114.0' MOD BLEACHED MOD CHL ON ABUN FRAGS

SAMPLE INTERVALS

Depth	Box
1050.0	
1054.0	6
1055.0	
1060.0	7
1063.0	
1065.0	
1070.0	8
1072.0	
1075.0	
1080.0	9
1081.3	
1085.0	10
1090.0	
1090.6	
1095.0	11
1100.0	
1099.8	

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1	STARTED:	PAGE: 3/10
LOGD BY: RLD	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED: 03/24/97	HOLE #
DATE:	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	97-381

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	DRILLING EC	DRILLING EC	DRILLING R Q D	LITHOLOGY	ALTERATION/MINIERALIZATION	STRAT	DEPTH	LITH	ALT	STRT	COMMENTS	SAMPLE	BOX
1100												1100.0	
1103	5.0 / 5.0	0 / 5.0			3 / 2						MARKER PORPHYRY: CONT.— HIGHLY FRAC'D 1098'-1111', NUM SLIPS @ 10°-15° TO C.A. ABUN CHL, SLICKENSIDES INDICATE NORMAL MOVEMENT, PLAG PHENOS ARE HIGHLY ARGILLIZED	1105.0	12
1110	9.7 / 9.7	1.5 / 9.7			2						1111.0'-1117.0' SEVERAL FRACS @ 05° TO C.A., WEAK CALC ON SURFACE	1107.0 / 1110.0	13
1113					1						1115.0'-1139.0' MED GRAY MARKER PORPHYRY, UN-BLEACHED AND ONLY WEAK PROP. ALT'N., NUM DARK GRAY FNG LITHIC FRAGS	1115.0	1115.6
1120	7.4 / 7.5	3.4 / 7.5										1120.0	14
1125	8.3 / 8.0	2.8 / 8.0									1127.0'-1130' MOD FRAC'D @ 05°-20° TO C.A.	1125.0	1125.0
1130												1130.0	15
1135	10.0 / 10.0	2.5 / 10.0										1135.0	1134.0
1140					2 / 2						1138.0'-1140.0' MOD FRAC'D @ 05°-10° 1139.0'-1152.0' MOD BLEACHED W/ DARK GRN CHL ON FRACS, LITHIC PARTIALLY BLEACHED	1140.0	16
1143	4.9 / 4.9	0 / 4.9										1145.0	1142.3
1150	3.8 / 3.8 / 1.8 / 1.8	0 / 3.8 / 0.4 / 1.8										1150.0	17

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1	STARTED:	PAGE: 4/10
LOGD BY: RLD	STATE: Nevada County Pershing	EASTING:	BEARING:	COMPLETED: 03/25/97	HOLE #
DATE: 03/24/97	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	97-381

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	DRILLING RECOVERY	DRILLING RQD	LITHOLOGY	ALTERATION/MINERALIZATION	STRAT	COMMENTS	SAMPLE	Box
1150						MARKER PORPHYRY: CONT.- 1152.0'-1168.5' MOD TO STRONGLY BLEACHED, SCATTERED VUGGY HIGH-ANGLE SILICA-PYRITE VEINS, "PITTED AND ETCHED" APPEARANCE STRUCTURALLY CONTROLLED REPLACMENT SILICA, SULFIDES OCCUPY SOME FORMER PHENOCRYST SITES, PULVERIZED SULFIDE GOUGE ON SEVERAL FRACS	1155	1150.6
1155	10.3 / 10.3	5.2 / 10.3		2 ↓ 1			18	
1160							1160	1159.0
1165	7.2 / 7.2	2.8 / 7.2					19	
							1165	1168.0
1170	6.8 / 6.8	5.7 / 6.8		1			1170	
							20	
1175							1175	1176.3
1180	9.3 / 9.3	5.3 / 9.3					1180	21
1185							1185	1184.0
1190	8.3 / 8.6	3.5 / 8.6					22	
							1190	1191.3
1195	9.5 / 9.3	4.2 / 9.3					1195	23
1200							1200	

PROJECT: Rosebud JV UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1	STARTED:	PAGE: 5/10
LOGD BY: RLD	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED: 03/24/97	HOLE #
DATE:	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	97-381C

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	DRILLING REC	DRILLING RQD	LITHOLOGY (ALUVUM, MUDCGL, LITHTUF, PUMTUFF, SURGEFLO, ASH, LAVA, AUTOBX, INTRUSIV, BANDALST, ANDESITE, RHYOLITE)	STRUCT (TEC, BRX, GOUGE, VOID)	ALTERATION/MINERALIZATION (Fe MIN: MNOX, HEMTITE, LIMONITE, PYRITE; PROP, ARG, ARGIL, PHYL, QTZ VNS, CALCITE, METALS)	STRAT (BAD, CHOLT, UBD, BRADY, MKR, BUD, LIDRO, DOZER)	DEPTH	LITHOLOGY	ALTERATION	STRUCTURE	SAMPLE INT	COMMENTS
1200							1200					MARKER PORPHYRY: CONT.-
					1 1 2						1202	1202.0'-1339.0' DOZER RHYOLITE: LIGHT GRAY COARSE FLOW BRECCIA 1202'-1222' MATRIX-SUPPORTED, PINK MATRIX
1205							1205					
	10.1 / 10.1	9.7 / 10.1									1207	INTRUSIVE CONTACT @ 30° TO C.A.
											1209.0	
1210							1210					
											1211.5	
1215							1215					1214.2' 1/4" WHT CALC VEIN @ 30° TO C.A.
	10.1 / 10.3	7.5 / 10.1									1217	1216.0' SEVERAL FRACS @ 30°-50° TO C.A.
											1218.0	
1220							1220					
											1221.8	1222.0'-1247.0' FINER GRAINED FLOW BRECCIA
1225							1225					
	10.2 / 10.2	8.5 / 10.2									1227	1225.0'-1245.0' ONLY OCCASIONALLY FRAC'D.
											1227.0	
1230							1230					
											1232	
1235							1235					
											1236.0	
	10.2 / 10.2	10.2 / 10.2									1237	
1240							1240					
											1242.2	
1245							1245					1245.0'-1250.0' NUMEROUS 1/4" WHT CLAY VEINLETS W/BLADED MARCASITE & PY
	10.3 / 10.3	6.1 / 10.3			3						1245.5	1246.0' TIGHT REVERSE FLT @ 20° TO C.A. SULFIDES & WHT CLAY VNLTS NEARLY PARALLEL TO C.A.
											1245	
1250							1250				1250	

Box

24 25 26 27 28

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1'	STARTED:	PAGE: 6/10
LOGD BY: HSM	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED: 03/24/97	HOLE #
DATE: 03/26/97	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	97-381C

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	DRILLING ECT	DRILLING RQD	LITHOLOGY (1–13)	STRUCT (14–17)	ALTERATION/MINIZATION (18–37)	STRAT (30–36)	DEPTH	LITH GRAPH	ALT SAMPLE	STRAT	COMMENTS	SAMPLE INT	Box
1250							1250					1250	
					1 2					30° WHT CLAY/MARC	CONTINUED DOZER AUTOBRECCIA: SLIGHTLY RUDDY-TAN ANGULAR TO SUB-ANGULAR FRAGMENTS OF (SOMETIMES) WEAKLY FOLIATED DOZER IN A SLIGHTLY GREENISH MATRIX OF DOZER ROCK FLOUR. FAIRLY TIGHT.		29
1255							1255					1255	1254.0
	9.9 / 10.1	9.7 / 9.9								20-30 WHT CLAY/MARC	FROM 1250': LOWER INTENSITY OF WHT CLAY + MARCASITE VNLTS = WK TO MOD.		
1260							1260					1260	30
										20-30 WHT CLAY ~0°			1263.0
1265							1265				LOCAL TRAINS & BLEBS OF SPOTTY DISS'D BRASSY SULFIDES OVERPRINT THE AUTOBXA	1265	
	10.3 / 10.3	9.6 / 10.3											31
1270							1270					1270	
													1272.5
1275							1275			30° WHT CLAY		1275	
	10.1 / 10.1	8.5 / 10.1											32
1280							1280			20° WHT CLAY	1281': SLICKED WHT CLAY VEINLET X MARCASITE, FOLLOWED BY 4" OF UNHEALED RUBBLE IN WHT CLAY WEAKLY MILLED.	1280	1282.0
1285							1285				SLIGHT INCREASE IN SULFIDIC VNLTS (+/- WHT CLAY) BELOW THE FAULT. HEAVIER DISS'D Py.	1285	
	10.3 / 10.3	8.4 / 10.3											33
1290							1290			30° & ~0° WHT CLAY/MARC		1290	1291.0
1295							1295					1295	34
	10.3 / 10.3	7.3 / 10.3								55° INT 40° =			
1300							1300				FLOW BANDING? POSSIBLY INTACT & OVERPRINTING BXA	1300	1300.0

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1	STARTED:	PAGE: 7/10
LOGD BY:	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED: 03/25/97	HOLE #
DATE:	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	97-381

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	DRILLING ROP	DRILLING WOB	LITHOLOGY	STRUCT	ALTERATION/MINERALIZATION	STRAT	DEPTH	LITH GRAPH	ALT GRAPH	STRUCT	COMMENTS	SAMPLE	BOX
1300							1300				CONTINUED DOZER, +/- AUTOBRECCIA	1300	1300.0
1305					2 2		1305			20° WHT CLAY	~1306': INTENSITY OF BRECCIATION DIMINISHES SLIGHTLY BELOW HERE & GRADES INTO STOCKWORK FRACTURES WITH SOME THIN INTERVALS OF MOSAIC BRECCIA.	1305	35
1310	10.2 / 10.3	7.0 / 10.2			1		1310			30° INT		1310	1309.0
1315	5.1 / 5.1	7.3 / 5.1					1315			30° INT	WK TO MODERATE WISPY SULFIDE VEINLETS.	1315	36
1320	5.0 / 5.0	5.0 / 5.0					1320			15° WHT CLAY		1320	1317.5
1325							1325			60° PL		1325.8	37
1330	10.0 / 10.0	5.8 / 10.0		2 4 1	3 1 3 / 2 2		1330			60° PL / 40° WHT CLAY/MARC	1325.8 - 1328.9: UNHEALED FAULT ZONE WITHIN DOZER. BELOW A 1" THICK DULL BRASSY SULFIDE VEIN AT 1329.8' AN UNHEALED MONOLITHIC MOSAIC BRECCIA OF MODLY ARGILLIZED, LT. GREEN DOZER FRAGMENTS, IS PACKED IN A WHITE CLAY MATRIX. CLAST-SUPPORTED W/ MATRIX < 10%.	1330	38
1335	10.0 / 10.2	6.1 / 10.0					1335			10° WHT CLAY	NO CALCITE	1334 / 1338.9	1335.0 / 39
1340	9.3 / 9.3	6.3 / 9.3			1 2 2 / 3 3	? ? ?	1340			55° CONTACT 45° BED	1338.9': CONTACT WITH DULL GREEN, MODERATELY ARGILLIZED & PROPYLITIZED SEDIMENTARY UNIT. EITHER GROUND UP BLD SURGE TUFF OR BASEMENT SS. 1338.9' - 1348' T_{LBT}	1344.2	1349.2
1345							1345				~1348': FAULTED MILLED CONTACT W/ BLK, CARBONACEOUS PHYLLITE IN W/ LOCAL LITHOLOGIES	1348	40
1350							1350				1348' - ~~1482~~ 1353' $T_{?}$ GRAY WKLY TO MODLY CARBONACEOUS SANDSTONE →		

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1	STARTED:	PAGE: 8/10
LOGD BY: HSM	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED: 03/25/97	HOLE # 97-381
DATE: 04/04/97	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	

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; EC; EF; RQ; RD

LITHOLOGY: ALUVUM; MUDCGL; PHYLLITE; LITHTUF; PUMTUF; SURGTUF; ASHFLO; ALAVA; AUTOBXA; INTRUSIV; BASALT; ANDESITE; RHYOLITE

STRUCT: TECC; BRECBXA; GOUGE; VEIN

ALTERATION/MINERALIZATION: Fe MIN: MNOX; HEMTIT; LIMONIT; PYRITE; PROP; ARG; ARGIL; SILIC; CARBON; QTZVNS; CALCITES; METASOMA

STRAT: BACHDOGEOL; CBUD; BRADY; MKRPOR; LBUD; WILDROS; DOZER

DEPTH FT	EC	RQ	RD	ALUVUM	MUDCGL	PHYLLITE	LITHTUF	PUMTUF	SURGTUF	ASHFLO	ALAVA	AUTOBXA	INTRUSIV	BASALT	ANDESITE	RHYOLITE	TECC	BRECBXA	GOUGE	VEIN	DOZER	PROP	ARG	ARGIL	SILIC	CARBON	QTZVNS	CALCITES	METASOMA	BACHDOGEOL	CBUD	BRADY	MKRPOR	LBUD	WILDROS	DOZER
1350																																				
1355																																				
1360	10.1 / 10.3	6.7 / 10.3																																		
1365																																				
1370	10.1 / 10.1	9.4 / 10.1																																		
1375																																				
1380	8.3 / 8.3	7.7 / 8.3																																		
1385	8.3 / 8.3	0.4 / 8.3																																		
1390																																				
1395	7.5 / 7.5	0 / 7.5																																		
1400	3.0 / 3.0	0 / 3.0																																		

DEPTH FT	LITH	GRAPH	ALT	SST RCT	COMMENTS	SAMPLE INT	
1350					1348'-1353': MED. GRAY (CARBONACEOUS?) SANDSTONE. POSSIBLY BASEMENT.	1348	Box
				70° FLT	1352.5': ~1" HEALED MYLONITE. 1353'-1383.1'TD?	1353	1353.2
1355				40° JNT	1353-1354.5': UNHEALED FAULT BRECCIA ZONE 1.5' WIDE. BEGINS AT A 1/4" WIDE SOOTY GREY SULFIDE VEINLET. ROCK BELOW THIS VEINLET IS GREENISH (PROPYLITIC) CREAM COLORED, APHANITIC.	1355 / .017	
1360				40° JNT	1357': BLK, SOOTY, FAULTED? BXA VNLT. UNHEALED.	1358.5	41
					1358.5 - 1362.5': 2ND UN- TO SEMI-HEALED FAULT BRECCIA ZONE IN PROBABLE DOZER RHYOLITE. BELOW 1362.5' THE CREAMY APHANITIC ROCK STILL HAS A BXA'D OR MYLONITIZED APPEARANCE, BUT IS FULLY HEALED & HARD.	1362.5	1362
1365							
				35° JNT		1367.5	42
1370				35° JNT 0°	1371': SLICKS ON JNT. LAST FAULT-RELATED STRUCTURE.	1371	
						1372.5	
1375							43
				70° SHEAR	~1376': THERE IS AN ALMOST MYLONITIC TEXTURE TO THE RHYOLITE BELOW THIS POINT.	1377.5	
1380				60° FLT	FROM ~1382': SEMI-HEALED, SLIGHTLY MILLED CONTACT ZONE.	1380	
						1382	
						1383.1	
1385				50° FLT	1383.1-1482.1'TD BLACK CARBONACEOUS PHYLLITE. BEDDED / FOLIATION IS CONTORTED DOWN TO ROUGHLY 1403', & LOCALLY SOMEWHAT BRECCIATED OR MILLED (UNHEALED).		44
				60° BED 40° JNT		1388	
1390							1389
						1393	
1395							45
						1398	
1400					1396.5': ~4" OF POSSIBLE DOZER SILL W/IN PHYLLITE	1403	1398.3

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1	STARTED:	PAGE: 9/10
LOGD BY: HSM	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED: 03/25/97	HOLE #
DATE: 04/04/97	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	97-381

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	DRILLING EC	DRILLING RQD	LITHOLOGY (PHYLLITE)	STRUCT	ALTERATION/MINERALIZATION (CARBON)	STRAT	LITH	ALT	STRCT	COMMENTS	SAMPLE INT	BOX
1400											1398	
	4.1 / 4.1	0.9 / 4.1			4 / 3				CAL VN	1402 & 1414': 6-9" THICK CALCITE VEINS	1403	46
1405									60° BED	BELOW ~ 1403': THE BLK FISSILE PHYLLITE IS WELL-BEDDED FOLIATED & UNDISTURBED. STRONGLY CARBONACEOUS & STR'LY TO MOD'LY CALCIC. ESSENTIALLY UNALTERED.	1406	1407.5
	6.2 / 6.2	2.4 / 6.2										
1410									65° BED		1411.3	47
	3.5 / 3.5	0 / 3.5										
1415									60° CALVN		1416	1415.1
	6.2 / 6.2	0 / 6.2							70° BED			48
1420										1421.5': 2" THICK CALCITE VEIN	1421	1423.5
	3.5 / 3.5	0 / 3.5										
1425									60° BED		1426	49
	9.5 / 9.5	2.0 / 9.5							60° CALVN 40° JNT			
1430										1431' - ~ 1441': MODERATELY BROKEN ZONE W/ INCREASED WHITE CALCITE.	1431	1432.5
1435	3.2 / 3.2	0 / 3.2							40° JNT		1436	50
1440	8.5 / 8.5	1.2 / 8.5							65° JNT	FROM 1441': SLIGHTLY CALCIC A/O COARSER-GRAINED LAYERS IN BEDDED PHYLLITE.	1441	1441.5
1445	6.4 / 6.4	0.4 / 6.4							75 BED		1445.7	51
1450									60° BED		1451	1449

PROJECT: Rosebud JV	UTM: NK 11-10-06 C	NORTHING:	TOTAL DEPTH: 1482.1	STARTED:	PAGE: 10/10
LOGD BY: HSM	STATE: Nevada County Pershing	EASTING:	BEARING: —	COMPLETED: 03/25/97	HOLE #
DATE: 04/04/97	SEC. T. N., E.	ELEVATION:	ANGLE: -90°	DRILLER: LONGYEAR	97-381

DRILLING: DEPTH, EECF, RQD

LITHOLOGY: ALUVUM, MUDCGL, PHYLLITE, LITHTUF, PUMTUF, SURGTUF, ASHFLO, ALAVA, AUTOBX, INTRUSIV, BASALT, ANDESITE, RHYOLITE

STRUCT: TECBX, BROKEN, GOUGE, VOID

ALTERATION/MINERALIZATION: Fe MIN: MNOX, HEMTIT, LIMONIT, PYRITE; PROP, ARG, ARGIL, CARBON, QTZVNS, CALCITE, METCLAS

STRAT: BADGER, CHOCOLT, BUD, BRADY, MKRPOR, LBUD, WILDROS, DOZER

DEPTH	LITHGRAPH	ALTGRAPH	STRCNT	SAMPLE INT	BOX
1450					
				1451	
					52
1455			55° BED		
			30° CALN	1456.5	1457
1460			50° BED		
				1462.1	53
1465					
				1467	1466
1470			85° BED		
				1472.1	54
1475			15° BED		1475
				1477	
1480			45° BED		55
				1482.1	1482.1 TD
1485					
1490					
1495					
1500					

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

~1472': BEGINNING OF A ZONE OF CONTORTED BEDDING & INCREASED CALCITE WITH SIGNIFICANT WHITE, SPARRY CALCITE INTERCALATED WITHIN BEDDING PARTINGS. SHINY METALLIC GRAPHITE HAS STARTED TO SHOW UP ON FRAX & PARTINGS.

NO VISIBLE PYRITE PRESENT IN PHYLLITE.

T.D. 1482.1'

PROJECT: ROSEBUD	STATE: Nevada	NORTHING:	TOTAL: 1000'	Page 1/4	HOLE#:
LOGD BY: HSM 03/10/97	COUNTY: Pershing	EASTING:	BEARING: —		DRB 97-381
UTM#: NK 11-10-06	SEC. T. N., R.	ELEVATION:	ANGLE: -90°		

DRILLING NOTES: Date: H'O Casing Bits Hole C

STRATIGRAPHY/LITHOLOGY

Depth (ft)	COLOR (WET)	ALUVM (1)	BADGER (2)	CHOCOLT (3)	BUD (4)	BRADY (5)	MKR POR (6)	BUD (7)	DOZER (8)	WILDROS (9)	SURGTUF (10)	ASH FLO (11)	LAVA (12)	AUTOBXA (13)	INTRUSV (14)	BASALT (15)	ANDESIT (16)	RHYOLIT (17)
0–10	BRN																	
10–20																		
20–30																		
30–40	BRN/TAN																	
40–50	GRY-WHT/OCHER																	
50–60																		
60–70	GRY-WHT/OCHER																	
70–80																		
80–90	WHT-TAN																	
90–100	BLUE-WHT/TAN																	
100–110	WHT-CRM																	
110–120	WHT-CRM																	
120–130	WHT/LT. BLUE																	
130–140	LT. BLUE/FLESH																	
140–150																		
150–160	BLUE-GRY/FLESH																	
160–170																		
170–180																		
180–190	GRY/TAN-GRY																	
190–200																		
200–210	TAN/GRY																	
210–220																		
220–230	BLUE-GRN																	
230–240																		
240–250	BLUE-GRN/GRY																	
250–260	LT. BLUE-GRN																	

STRCT

Depth (ft)	BROKEN (15)	GOUGE (16)	GRAPHIC
0–10			
10–20			
20–30			
30–40			
40–50			
50–60			
60–70			
70–80			
80–90			
90–100			
100–110		3	
110–120		3	
120–130		2	
130–140			
140–150			
150–160			
160–170			
170–180			
180–190			
190–200			
200–210			
210–220			
220–230			
230–240			
240–250			
250–260			

ALTERATION & MINERALIZATION

Depth (ft)	OXD'TN MANGAN (17)	HEMAT (18)	LIMON (19)	PYRITE (20)	GRAPHIC	UNALTRD (21)	PROPYLT (22)	ARG (23)	RPL SIL (24)	STKWKS (25)	VEINS (26)	CALCITE (27)	GRAPHIC
0–10			3									4	
10–20												2	
20–30												2	
30–40												1	
40–50												2	
50–60			2					1	1				
60–70								1	1			1	
70–80								1					
80–90				1				2					
90–100				1				2					
100–110				1				1					
110–120				1				1					
120–130				1				1					
130–140				1				4					
140–150				1				4					
150–160				2				4	1				
160–170				1				2	2				
170–180				1				2					
180–190				2				1					
190–200				1									
200–210				1									
210–220				1									
220–230				1									
230–240				1					3				
240–250				1									
250–260				1									
260–270				1									
270–280				1									
280–290				1									
290–300				1									
300–310				1					3				
310–320				1				2	3				
320–330				2					2				
330–340				2					2				
340–350							2	3					
350–360								2					
360–370				2				2					
370–380				1				2					
380–390								2				2	
390–400				1				3				2	

COMMENTS

Sample Recovery

Composite Geochem Interval:

0–23' Qal — MIXED LITHOLOGY CHIPS >90° CHOCOLATE LAVA, THAT IS NOTEABLY LESS ALTERED & BLEACHED THAN UNDERLYING MATERIAL.

23'–220' Tc — ~~UPPER BUD SURGE~~?

LOOKS LIKE STRONGLY ALTERED (MODERATELY SILICIFIED AND STRONGLY BLEACHED) TYPE CHOCOLATE LAVA. MOTTLED TRANSLUSCENT GRY-WHT AND LT. PEACH.

MOST OF THIS MATERIAL HAS A SUCROSIC TEXTURE IDENTIFIED ELSEWHERE IN THE CHOCOLATE, BUT NOT OBSERVED IN UNALTERED ROCK. I THINK IT IS A RECRYSTALLIZATION TEXTURE.

THE COLOR & TEXTURALLY MOTTLING MAY CORRESPOND TO RELICT PHENOCRYST SITES. THE ALTERATION OBSCURES THE ORIGINAL TEXTURE TO A CONSIDERABLE DEGREE.

95–110': CRMY GOUGE ZONE. INTENSELY BLEACHED.

ALTERATION: IS NOT THE SORT OF SILICA FLOODING I USUALLY WANT TO SEE BEFORE CALLING SOMETHING 'SILICIFIED'. MAY BE POTASSIC/ADULARIA-SERICITE ALTERATN. I CANNOT DISTINGUISH WITH CHIPS. IT IS A HARD TRANSLUSCENT ALT'N OF THE RK, WITH ATTENDANT BLEACHING.

BELOW 110': THERE IS ALOT OF GRANULAR MATERIAL IN CHIPS - PROBABLY CHOCOLATE LITHIC TUFF BRECCIA THRU THIS STRETCH.

220'–315' TUBT — UPPER BUD SURGE TUFF.

MICROPHENOCRYST-BEARING WELDED TUFF? OR LAVA DOMINATES CHIPS TO:

PROJECT: ROSEBUD	STATE: Nevada	NORTHING:	TOTAL 1000 PILOT Page 2/4	HOLE#:
LOGD BY: HSM 03/10/97	COUNTY: Pershing	EASTING:	BEARING: —	DRB 97-381
UTM#: NK 11-10-06	SEC. T. N., R.	ELEVATION:	ANGLE: -90°	

DRILLING NOTES: TIME | Date: H/O Cacme Rds Hole C

STRATIGRAPHY/LITHOLOGY — COLOR (WET) — DEPTH in FEET

Depth	Color (Wet)	ALUVM (1)	BADGER (2)	CHOCOLT (3)	UBUD (4)	BRADY (5)	MKR POR (6)	LBUD (7)	DOZER (8)	WILDROS (9)	SURGTUF (10)	ASHOFLO (11)	LAVA00 (12)	AUTOBXA (13)	INTRUSV (14)	BASALT (15)	ANDESIT (16)	RHYOLIT (17)	BROKEN (18)	GOUGE (19)	GRAPHIC (20)
260	BLUE-GRN/GRY-WHT				■						■										
270					■						■										
280					■						■									2	
290					■						■									2	
300					■						■									2	
310	GRY-WHT				■						■										
320	LT. GRN-GRY					■							■				■				
330	LT. GRN-GRY					■							■				■				
340	WRM GRY					■							■				■				
350	WRM GRY					■							■				■				
360	GRY					■							■				■				
370	LT. GRN/FLESH WHT					■							■				■			2	
380	RUDDY-GRY					■							■				■				
390	WHT-GRN/RUDDY-GRY					■							■				■				
400	RUDDY GRY					■							■				■				
410	GRY					■							■				■				
420	RUDDY GRY					■							■				■				
430	TAN					■							■				■				
440	TAN/CRM					■							■				■				
450	TAN/BRN					■							■				■				
460	RUDDY BRN-GRY					■							■				■				
470	GRY/RUDDY BRN GRY					■							■				■				
480	GRY					■							■				■				
490	LT GRN/LT FLESH					■							■				■				
500	TAN TAN/BRN					■							■				■				

ALTERATION & MINERALIZATION

Depth	Manganese (17)	Hematite (18)	Limonite (19)	Pyrite (20)	GRAPHIC (21)	Unaltered (22)	Propylitic (23)	Argillic (24)	Silicified (25)	Stockwks (26)	Veins (27)	Calcite (28)	GRAPHIC (29)
260				1		1	1					3	
270				1		1	1					2	
280				1		1	2					1	
290				1		1	2					1	
300				2		1	1					1	
310						1	3					2	
320						1	3					1	
330				1		1	1					1	
340				1		1	1					2	
350			1										
360			1										
370			1										
380		1										1	
390		1										1	
400		1										1	
410		1										1	
420		1										1	
430		1										1	
440		1										1	
450		1										1	
460		1										1	
470		1										1	
480		1										1	
490		1										1	
500		1										2	

COMMENTS

Sample Recovery

Composite Geochem Interval

CHIPS ARE LESS FRAGMENTAL & MORE WELDED IN APPEARANCE IN THIS DRILLHOLE THAN IN THOSE I HAVE PREVIDUSLY LOGGED

BLADED MARCASITE HABIT BY 285'

275-285 & 290-295': CRMY GOUGE, POSSIBLE FAULTED OR SHEARED ZONES

300-315': STRONGLY BLEACHED & ARGILLIZED W/O VISIBLE PROPYLITIZATION TO CONTACT. NO PHYLLITIC MAT'L

315 - 815 Ta | BRADY ANDESITE LAVA

315-325': SLIGHTLY PALER GRY WKLY CLAY ALTERED UPPER MARGIN OF THE ANDESITE. LARGELY UNALTERED BELOW.

325': MED. GRY XTLLINE FLOW. PHENOCRYSTS DIFFICULT TO SEE. TRUE PHENOCRYSTS RARE. FeOx STAINS ON FRX & PARTINGS. LARGELY UNALTERED.

365-370': ~~SPARRY~~ WHT CALCITE ≥ 60% RHOMBIC

370-385': SHEARED & WKLY MYLONITIZED ANDESITE LAVA. ~~ALSO FROM 390-395'.~~

390-405 = WORMY QUASI-WELDED TEXTURE. POSSIBLY THIS TEXTURE CORELLATES WITH INTRA UNIT FLOW TOPS.

435-445': MODLY BLEACHED, UNARGILLIZED

470-500': WKLY BLEACHED. REDUCED GROUNDMASS FROM 470-480'.

SAMPLE No

PROJECT	ROSEBUD	STATE:	Nevada	NORTHING:		TOTAL	1000 PILOT	Page 3/4	HOLE:
LOGD BY:	HSM 03/10/97	COUNTY:	Pershing	EASTING:		BEARING:	—		PRB 97-381
UTM#:	NK 11-10-06	SEC.	T. N., R.	ELEVATION:		ANGLE:	-90°		

DRILLING NOTES		STRATIGRAPHY/LITHOLOGY																	STRCT			ALTERATION & MINERALIZATION										COMMENTS
TIME	Date: H.30 Casing Bits Hole C	COLOR (WET)	ALUVMO	BADGER	CHOCOLT	BUD	BRADY	MKR POR	BUD	DOZER	WILDROS	SURGTUF	ASH0FLO	LAVA0	AUTOBXA	INTRUSV	BASALT	ANDESIT	RHYOLIT	BROKEN	GOUGE	GANGAN	HEMAT	LIMON	PYRITE	UNALTRD	PROPYLT	ARG	RPL SIL	STKWKS	VEINS	CALCITE	Sample Recovery / Composite Geochem Intervals
DEPTH in FEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27				
510		BRN-GRY																		1												1	LOCALLY BLEACHED, LARGELY UNALTERED BRADY ANDESITE.
		GRN-WHT																				1											
520		GRN-WHT/BRN-GRY																		1													
		BRN-GRY																		1													
530		GRY-WHT																		1													525-555': MOD'LY TO STR'LY BLEACHED, NOT ARGILLIZED.
		TAN-GRY																													1	2	QZ VNING? VERY WK.
540																						1										1	
550		GRY-WHT																														1	
		GRY-WHT																														1	
560		BRN-GRY																		1												2	
570		DK GRY																		1												1	
		DK GRY																		1												2	
580		LT GRY/DK GRY																		1												1	
																						1										1	
590		GRY																														2	
600																																1	
																																1	
610		GRY																		1												1	
620																																2	
																				1												1	
630																						1										1	
640																																1	
650		RUDDY-GRY																														1	
660																				1												1	
																				1												1	
670		LT GRN/FLESH																		1												1	
680		GRY																		1												2	FROM 675': UNALTERED. FeOx STAINING ON FRX.
690																				1												1	
700																				1												1	
710		GRY																		1												1	
720																				1												1	
730																				1												1	
740																				1												1	
750																				1												1	

Filename: drbLOG.xls

PROJECT: ROSEBUD	STATE: Nevada	NORTHING:	TOTAL 1000 PILOT Page 4/4
LOGD BY: HSM 03/10/97	COUNTY: Pershing	EASTING:	BEARING:
UTM#: NK 11-10-06	SEC. T. N., R.	ELEVATION:	ANGLE:

HOLE#: DRB 97-381

DRILLING NOTES: TIME | Dates, H2O, Casing, Bits, Hole C

STRATIGRAPHY/LITHOLOGY

DEPTH in FEET	COLOR (WET)	1 ALUVM	2 BADGER	3 CHOCOLT	4 BUD	5 BRADY	6 MKR POR	7 LBUD	8 DOZER	9 WILDROS	10 SURGTUF	11 ASHOFLO	12 LAVA00	13 AUTOBXA	14 INTRUSV	12 BASALT	13 ANDESIT	14 RHYOLIT	15 BROKEN	16 GOUGE	STRCT GRAPHIC
760	GRY																				
770																					
780																					
790																					
800																					
810	RUDDY GRY																				
820																					
830	RUDDY/GRN-GRY																				
840																					
850																					
860	RUDDY/GRN-GRY																?				
870																					
880																					
890	RUDDY GRY/WHT-GRN																				
	RUDDY GRY																				
900	RUDDY GRY/WHT-GRN																				
	RUDDY/GRN-GRY																				
910																					
920																					
930	RUDDY GRY																				
940																					
950																					
960	WHT-GRN/GRY																				
	WHT-GRN/RUDDY GRY																				
970																					
980	WHT-GRN																				
990																					
1000	WHT-GRN/RUDDY GRY																				

ALTERATION & MINERALIZATION

DEPTH in FEET	OXD'TN GANGAN	HEMAT	LIMON	PYRITE	GRAPHIC	UNALTRD	PROPYLT	ARG	RPLSIL	STKWKS	VEINS	CALCITE	GRAPHIC
760		1										1	
770													
780													
790												2	
800												2	
810		1										1	
820													
830													
840													
850													
860		1										1	
												2	
870												1	
880												2	
890							1	1				2	
												2	
900							1	1				2	
							1	1				1	
910		1											
920													
930													
940				1									
950													
960		1					1	1				1	
970													
980							2						
990												1	
												2	
1000		1					1					2	
							1					2	

COMMENTS

Sample Recovery

Composite Geochem Intervals

FROM 670': UNALTERED BRADY ANDESITE W/O MUCH TEXTURE TO 745'

745': POSSIBLE AUTOBXA? FROM 735-815' THE ANDESITE APPEARS BRECCIATED A/O INCORPORATED INTO BUD LITHIC LAPILLI TUFF. MOST OF THE MATERIAL IS STILL ANDESITE BUT THE TEXTURE IS INCREASINGLY FRAGMENTAL WITH DEPTH. ROCK IS HARD AND ESSENTIALLY UNALTERED THROUGH THIS STRETCH, EXCEPT FOR HEMATIZATION.

815': SOMEWHAT ARBITRARILY CHOSEN CONTACT OF ~~815-1000 T LBT~~ LOWER BUD TOFF. THE LOWER MARGIN OF THE ANDESITE APPEARS SOMEWHAT GRADATIONAL. THE FRAGMENTAL LOWER BUD LIKE THE OVERLYING BRADY IS UNALTERED EXCEPT FOR HEMATIZATION.

880-895': BLEACHED GRN-WHT ROCK. FIRST 'TYPE' BUD OBSERVED.

FROM 945': SURGE TUFFS FRAGMENTAL CHARACTER IS VISIBLE. CLEARLY VISIBLE DUE TO PREFERENTIAL BLEACHING OF LITHIC LAPILLI. ARGILLIZATION IS STILL WK TO ABSENT. ROCK IS HARD. HEMATIZATION DECREASES.

SAMPLE No: 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

American Assay Laboratories

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SANTA FE PACIFIC GOLD

COPIES TO : RADU CONELEA
: RICHAR DIXON
: CHARLIE MUERHOFF
:

CLIENT REFERENCE No: 97-381 RECEIVED : 28 MAR 1997

No. SAMPLES : 100 REPORTED : 28 MAR 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
AAL01-0	AAL01-0	10%		

SIGNATORY : Doyle Knudsen

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

REPORTED : 28 MAR 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT	AAL01-0 AAL01-0
97-381 500-505	<5		<0.001		<0.5	<0.02	
97-381 505-510	<5		<0.001		<0.5	<0.02	
97-381 510-515	<5		<0.001		<0.5	<0.02	
97-381 515-520	<5		<0.001		<0.5	<0.02	
97-381 520-525	<5		<0.001		<0.5	<0.02	
97-381 525-530	<5		<0.001		<0.5	<0.02	
97-381 530-535	8		<0.001		<0.5	<0.02	
97-381 535-540	30		<0.001		<0.5	<0.02	
97-381 540-545	90		0.003		0.6	<0.02	
97-381 545-550	28		<0.001		1.1	0.03	
97-381 550-555	13	20	<0.001	<0.001	<0.5	<0.02	
97-381 555-560	11		<0.001		<0.5	<0.02	
97-381 560-565	31		<0.001		<0.5	<0.02	
97-381 565-570	10		<0.001		0.9	0.03	
97-381 570-575	<5		<0.001		<0.5	<0.02	
97-381 575-580	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 580-585	13		<0.001		<0.5	<0.02	
97-381 585-590	14		<0.001		<0.5	<0.02	
97-381 590-595	<5		<0.001		<0.5	<0.02	
97-381 595-600	471	500	0.014	0.015	<0.5	<0.02	
97-381 600-605	<5		<0.001		<0.5	<0.02	
97-381 605-610	24		<0.001		<0.5	<0.02	
97-381 610-615	<5		<0.001		<0.5	<0.02	
97-381 615-620	<5		<0.001		<0.5	<0.02	
97-381 620-625	5		<0.001		<0.5	<0.02	

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

REPORTED : 28 MAR 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT	AAL01-0 AAL01-0
97-381 625-630	13		<0.001		0.5	<0.02	
97-381 630-635	<5		<0.001		0.7	0.02	
97-381 635-640	<5		<0.001		0.6	<0.02	
97-381 640-645	<5		<0.001		<0.5	<0.02	
97-381 645-650	32		<0.001		<0.5	<0.02	
97-381 650-655	<5		<0.001		<0.5	<0.02	
97-381 655-660	<5		<0.001		<0.5	<0.02	
97-381 660-665	<5		<0.001		<0.5	<0.02	
97-381 665-670	23		<0.001		<0.5	<0.02	
97-381 670-675	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 675-680	<5		<0.001		<0.5	<0.02	
97-381 680-685	<5		<0.001		<0.5	<0.02	
97-381 685-690	<5		<0.001		<0.5	<0.02	
97-381 690-695	<5		<0.001		<0.5	<0.02	
97-381 695-700	<5		<0.001		<0.5	<0.02	
97-381 700-705	<5		<0.001		<0.5	<0.02	
97-381 705-710	8		<0.001		0.7	0.02	
97-381 710-715	9		<0.001		<0.5	<0.02	
97-381 715-720	<5		<0.001		<0.5	<0.02	
97-381 720-725	<5		<0.001		<0.5	<0.02	
97-381 725-730	<5		<0.001		<0.5	<0.02	
97-381 730-735	<5		<0.001		<0.5	<0.02	
97-381 735-740	<5		<0.001		<0.5	<0.02	
97-381 740-745	<5		<0.001		<0.5	<0.02	
97-381 745-750	<5		<0.001		0.9	0.03	

AMERICAN ASSAY LABORATORIES

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REFERENCE : 97-381

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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	AAL01-0 AAL01-0
97-381 750-755	<5		<0.001		<0.5	<0.02	
97-381 755-760	<5		<0.001		<0.5	<0.02	
97-381 760-765	<5		<0.001		0.6	<0.02	
97-381 765-770	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 770-775	<5		<0.001		<0.5	<0.02	
97-381 775-780	<5		<0.001		<0.5	<0.02	
97-381 780-785	<5		<0.001		0.6	<0.02	
97-381 785-790	<5		<0.001		<0.5	<0.02	
97-381 790-795	<5		<0.001		<0.5	<0.02	
97-381 795-800	<5		<0.001		<0.5	<0.02	
97-381 800-805	<5		<0.001		<0.5	<0.02	
97-381 805-810	<5		<0.001		<0.5	<0.02	
97-381 810-815	<5		<0.001		<0.5	<0.02	
97-381 815-820	<5		<0.001		<0.5	<0.02	
97-381 820-825	<5		<0.001		0.8	0.02	
97-381 825-830	<5		<0.001		<0.5	<0.02	
97-381 830-835	<5		<0.001		<0.5	<0.02	
97-381 835-840	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 840-845	<5		<0.001		<0.5	<0.02	
97-381 845-850	<5		<0.001		<0.5	<0.02	
97-381 850-855	<5		<0.001		<0.5	<0.02	
97-381 855-860	<5		<0.001		<0.5	<0.02	
97-381 860-865	<5		<0.001		<0.5	<0.02	
97-381 865-870	<5		<0.001		<0.5	<0.02	
97-381 870-875	<5		<0.001		<0.5	<0.02	

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

REPORTED : 28 MAR 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT	AAL01-0 AAL01-0
97-381 875-880	<5		<0.001		<0.5	<0.02	
97-381 880-885	<5		<0.001		2.5	0.07	
97-381 885-890	<5		<0.001		1.6	0.05	
97-381 890-895	<5		<0.001		1.6	0.05	
97-381 895-900	<5		<0.001		0.6	<0.02	
97-381 900-905	<5		<0.001		1.5	0.04	
97-381 905-910	<5		<0.001		1.9	0.06	
97-381 910-915	<5		<0.001		1.0	0.03	
97-381 915-920	<5		<0.001		0.8	0.02	
97-381 920-925	<5		<0.001		0.6	<0.02	
97-381 925-930	<5		<0.001		0.9	0.03	
97-381 930-935	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 935-940	<5		<0.001		0.6	<0.02	
97-381 940-945	<5		<0.001		1.5	0.04	
97-381 945-950	<5		<0.001		1.0	0.03	
97-381 950-955	<5		<0.001		<0.5	<0.02	
97-381 955-960	<5		<0.001		<0.5	<0.02	
97-381 960-965	<5		<0.001		0.6	<0.02	
97-381 965-970	<5		<0.001		1.8	0.05	
97-381 970-975	20		<0.001		0.9	0.03	
97-381 975-980	<5		<0.001		0.5	<0.02	
97-381 980-985	<5		<0.001		0.5	<0.02	
97-381 985-990	<5		<0.001		2.6	0.08	
97-381 990-995	11		<0.001		1.6	0.05	
97-381 995-1000	6		<0.001		0.8	0.02	

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AAL 01-0 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
UNIT	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	1	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: SANTA FE PACIFIC GOLD CORP.
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP043004
METHOD: AAL 01-0

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	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
97-381 500-520	0.3	0.96	7	4	872	< 2	1.4	0.2	5	27	12	2.99	< 1	0.29	22	0.32	694	3	0.07	5	0.062	22	< 2	135	6	0.02	< 5	10	< 2	61
97-381 520-540	0.4	1.09	16	4	238	< 2	2.09	0.3	4	3	11	2.87	< 1	0.27	23	0.16	699	9	0.05	3	0.065	66	3	145	7	0.01	< 5	10	< 2	62
97-381 540-560	0.4	1.09	14	5	381	< 2	1.03	< .2	4	13	6	2.58	< 1	0.28	28	0.16	507	2	0.09	3	0.067	26	2	122	10	0.01	< 5	10	< 2	54
97-381 560-580	0.6	0.81	10	3	136	< 2	1.76	< .2	4	7	10	2.88	< 1	0.28	27	0.2	808	3	0.09	5	0.07	19	< 2	168	10	0.01	< 5	12	< 2	60
97-381 580-600	0.4	0.69	10	4	60	< 2	1.79	0.3	4	7	8	3.02	< 1	0.26	29	0.16	477	3	0.09	4	0.07	16	< 2	156	11	0.02	< 5	13	< 2	55
97-381 600-620	0.3	0.63	3	4	62	< 2	0.94	< .2	4	10	10	3.19	< 1	0.27	29	0.14	353	4	0.09	5	0.072	14	< 2	102	12	0.03	< 5	13	< 2	52
97-381 620-640	1	0.8	4	6	68	< 2	0.94	0.3	5	9	11	3.19	< 1	0.25	25	0.31	649	3	0.09	5	0.069	30	< 2	89	11	0.03	< 5	14	< 2	61
97-381 640-660	0.4	0.73	2	5	66	< 2	1	< .2	5	8	14	3.32	< 1	0.29	30	0.2	560	3	0.1	6	0.072	60	< 2	111	12	0.03	< 5	14	< 2	66
97-381 660-680	0.4	1.03	21	3	44	< 2	1.38	0.2	4	5	9	3.12	< 1	0.31	29	0.25	547	4	0.08	4	0.075	33	< 2	161	11	0.01	< 5	12	< 2	63
97-381 680-700	< .3	0.8	< 2	4	59	< 2	0.8	0.3	6	10	15	3.25	< 1	0.24	27	0.33	897	3	0.11	6	0.072	69	< 2	75	11	0.05	< 5	15	< 2	84
97-381 700-720	0.4	0.77	3	5	58	< 2	0.84	< .2	4	10	11	3.47	< 1	0.32	29	0.12	588	3	0.1	6	0.072	19	< 2	120	11	0.06	< 5	15	< 2	57
97-381 720-740	< .3	0.58	4	5	62	3	0.51	< .2	3	9	10	2.78	< 1	0.3	28	0.08	365	2	0.08	6	0.065	24	< 2	89	13	0.05	< 5	7	< 2	29
97-381 740-760	0.4	0.89	6	5	76	5	0.67	0.2	3	5	7	2.47	< 1	0.5	31	0.14	445	2	0.08	3	0.055	61	< 2	145	13	0.02	< 5	4	< 2	38
97-381 760-780	0.4	0.75	3	6	105	18	0.94	0.3	3	6	10	2.54	< 1	0.37	27	0.09	467	3	0.09	5	0.054	38	< 2	131	11	0.02	< 5	5	< 2	62
97-381 780-800	< .3	1.32	7	7	98	4	1.58	0.6	3	3	6	2.47	< 1	0.59	31	0.16	811	< 1	0.08	2	0.061	60	< 2	228	8	0.02	< 5	5	< 2	38
97-381 800-820	< .3	0.85	3	3	100	< 2	1.24	< .2	3	4	6	2.03	< 1	0.37	35	0.19	741	2	0.08	3	0.061	52	< 2	155	7	0.01	< 5	4	< 2	49
97-381 820-840	0.4	0.93	4	4	87	< 2	1.47	0.4	3	4	6	2.21	< 1	0.34	35	0.26	1017	1	0.06	3	0.063	23	< 2	158	7	0.01	< 5	5	< 2	65
97-381 840-860	< .3	1.02	2	3	390	< 2	1.53	0.4	3	13	7	2.09	< 1	0.41	35	0.25	818	2	0.07	3	0.057	18	< 2	218	6	0.01	< 5	4	< 2	62
97-381 860-880	< .3	0.69	3	3	93	< 2	1.32	0.2	2	6	21	1.59	< 1	0.34	36	0.11	692	1	0.06	4	0.038	33	< 2	163	8	0.01	< 5	2	< 2	55
97-381 880-900	1.5	0.71	16	< 3	131	3	1.33	0.5	3	6	8	1.62	< 1	0.33	32	0.1	636	2	0.05	4	0.041	28	2	194	6	0.01	< 5	2	< 2	88
97-381 900-920	1.2	0.58	6	< 3	76	3	1.18	0.4	2	7	7	1.43	< 1	0.3	39	0.08	631	1	0.06	5	0.036	23	< 2	145	9	0.01	< 5	3	< 2	57
97-381 920-940	0.6	0.54	7	< 3	111	< 2	1.28	< .2	2	7	8	1.68	< 1	0.3	42	0.05	649	2	0.05	4	0.031	28	< 2	167	11	0.01	< 5	5	< 2	38
97-381 940-960	0.8	0.5	7	3	97	< 2	1.23	1.4	3	10	9	1.96	< 1	0.26	43	0.06	756	3	0.07	6	0.028	25	< 2	111	12	0.01	< 5	10	< 2	75
97-381 960-980	1	0.61	9	3	242	2	0.85	0.4	3	9	9	1.72	< 1	0.3	46	0.06	815	3	0.07	4	0.039	25	2	134	12	< .01	< 5	8	< 2	69
97-381 980-1000	1.1	0.61	5	< 3	71	2	2.24	0.2	1	6	6	0.83	< 1	0.38	35	0.06	1326	2	0.04	2	0.035	25	< 2	213	7	< .01	< 5	1	< 2	38
STANDARD C3	5.7	1.91	52	20	145	17	0.57	24.2	13	180	67	3.61	1	0.2	18	0.65	836	26	0.05	37	0.098	36	16	32	21	0.07	21	82	18	145

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP042911

American Assay Laboratories

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SANTA FE PACIFIC GOLD

COPIES TO : RADU CONELEA
: RICHAR DIXON
: CHARLIE MUERHOFF
:

CLIENT REFERENCE No: 97-381 RECEIVED : 27 MAR 1997

No. SAMPLES : 100 REPORTED : 28 MAR 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(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Doyle Knudsen

AMERICAN ASSAY LABORATORIES

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PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
97-381 000-005	<0.001		<0.02
97-381 005-010	<0.001		<0.02
97-381 010-015	<0.001		<0.02
97-381 015-020	<0.001		<0.02
97-381 020-025	<0.001		<0.02
97-381 025-030	0.004		0.03
97-381 030-035	0.002		0.06
97-381 035-040	0.002		0.07
97-381 040-045	0.004	0.003	0.09
97-381 045-050	0.002		0.08
97-381 050-055	0.004		0.03
97-381 055-060	0.002		0.04
97-381 060-065	0.003		0.06
97-381 065-070	0.002		0.09
97-381 070-075	0.001		0.05
97-381 075-080	0.003		0.05
97-381 080-085	0.002		0.05
97-381 085-090	0.001		0.06
97-381 090-095	0.001		0.05
97-381 095-100	0.002		0.04
97-381 100-105	0.002		0.07
97-381 105-110	0.002		0.06
97-381 110-115	2.000		0.06
97-381 115-120	0.002		0.06
97-381 120-125	0.003		0.06

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
97-381 125-130	0.002		0.04
97-381 130-135	0.002		0.07
97-381 135-140	0.002		0.04
97-381 140-145	0.008	0.006	0.04
97-381 145-150	0.001		0.03
97-381 150-155	0.001		0.03
97-381 155-160	0.001		0.03
97-381 160-165	0.002		0.03
97-381 165-170	0.002		0.03
97-381 170-175	0.002		0.04
97-381 175-180	0.002		0.04
97-381 180-185	0.002		0.04
97-381 185-190	0.002		0.05
97-381 190-195	0.002		0.02
97-381 195-200	0.002		0.02
97-381 200-205	0.002		0.03
97-381 205-210	0.004	0.004	0.03
97-381 210-215	0.002		0.02
97-381 215-220	0.002		0.03
97-381 220-225	0.006		0.45
97-381 225-230	0.005		0.38
97-381 230-235	0.002		0.15
97-381 235-240	0.001		0.07
97-381 240-245	0.002	0.001	0.06
97-381 245-250	0.002		0.07

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
97-381 250-255	0.001		0.07
97-381 255-260	0.002		0.07
97-381 260-265	0.002		0.05
97-381 265-270	0.003		0.07
97-381 270-275	0.003		0.08
97-381 275-280	0.005		0.06
97-381 280-285	0.002		0.04
97-381 285-290	0.006		0.03
97-381 290-295	0.002		0.03
97-381 295-300	0.003	0.003	0.03
97-381 300-305	0.002		0.03
97-381 305-310	0.001		0.03
97-381 310-315	0.001		<0.02
97-381 315-320	0.001		0.02
97-381 320-325	0.002		<0.02
97-381 325-330	<0.001		<0.02
97-381 330-335	<0.001		<0.02
97-381 335-340	<0.001		<0.02
97-381 340-345	<0.001		<0.02
97-381 345-350	<0.001		<0.02
97-381 350-355	<0.001		<0.02
97-381 355-360	<0.001		<0.02
97-381 360-365	<0.001	<0.001	<0.02
97-381 365-370	<0.001		<0.02
97-381 370-375	<0.001		<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP042911

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

REPORTED : 28 MAR 1997

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
97-381 375-380	<0.001		<0.02
97-381 380-385	<0.001		<0.02
97-381 385-390	<0.001		<0.02
97-381 390-395	<0.001		<0.02
97-381 395-400	<0.001		<0.02
97-381 400-405	<0.001		<0.02
97-381 405-410	<0.001		<0.02
97-381 410-415	<0.001		<0.02
97-381 415-420	<0.001		<0.02
97-381 420-425	<0.001		<0.02
97-381 425-430	<0.001	<0.001	<0.02
97-381 430-435	<0.001		<0.02
97-381 435-440	<0.001		<0.02
97-381 440-445	<0.001		<0.02
97-381 445-450	<0.001		<0.02
97-381 450-455	<0.001		<0.02
97-381 455-460	<0.001		<0.02
97-381 460-465	<0.001		<0.02
97-381 465-470	<0.001		<0.02
97-381 470-475	<0.001	<0.001	<0.02
97-381 475-480	<0.001		<0.02
97-381 480-485	<0.001		<0.02
97-381 485-490	<0.001		<0.02
97-381 490-495	<0.001		<0.02
97-381 495-500	<0.001		<0.02

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

CLIENT: SANTA FE PACIFIC GOLD CORP.
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP042911
METHOD: AAL 01-0

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	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
97-381 000-020	0.3	1.38	8	24	178	< 2	1.46	0.3	7	15	17	2.47	< 1	0.4	34	0.37	539	3	0.21	15	0.054	35	2	138	14	0.03	< 5	38	< 2	65
97-381 020-040	1.7	0.81	41	6	136	< 2	0.23	< .2	2	5	13	1.54	< 1	0.44	28	0.08	235	3	0.06	5	0.019	76	11	143	10	< .01	< 5	15	< 2	40
97-381 040-060	2.2	0.67	66	5	122	< 2	0.13	< .2	2	3	10	1.65	< 1	0.39	28	0.03	151	4	0.05	3	0.018	54	16	142	10	< .01	< 5	9	2	37
97-381 060-080	2.3	0.64	55	5	75	2	0.12	< .2	1	2	9	1.23	< 1	0.31	33	0.03	96	2	0.02	3	0.013	49	16	72	12	< .01	< 5	2	2	36
97-381 080-100	2.1	0.77	34	4	36	< 2	0.16	0.5	3	2	12	1.49	< 1	0.36	24	0.03	75	2	0.02	3	0.012	63	11	102	9	< .01	< 5	2	< 2	62
97-381 100-120	2.8	0.93	49	4	72	2	0.19	0.2	4	< 1	17	1.92	< 1	0.47	17	0.05	70	2	0.02	4	0.01	34	15	80	7	< .01	< 5	4	2	74
97-381 120-140	2	0.73	110	5	62	< 2	0.17	< .2	5	< 1	10	1.93	1	0.39	28	0.03	93	2	0.02	5	0.007	55	11	45	10	< .01	< 5	2	< 2	77
97-381 140-160	1.3	0.55	100	3	78	< 2	0.14	0.4	4	3	6	1.92	< 1	0.29	19	0.02	90	1	0.01	4	0.012	22	7	93	9	< .01	< 5	1	< 2	65
97-381 160-180	1.5	0.62	97	5	79	< 2	0.16	0.2	5	2	7	1.93	< 1	0.32	19	0.03	91	2	0.01	4	0.011	27	7	85	9	< .01	< 5	1	2	75
97-381 180-200	1.4	0.44	105	3	69	< 2	0.11	0.8	3	5	8	1.75	< 1	0.24	14	0.02	100	2	0.01	5	0.008	24	8	62	7	< .01	< 5	1	< 2	56
97-381 200-220	1.2	0.44	96	3	60	< 2	0.11	1.7	4	4	8	1.76	< 1	0.19	14	0.02	94	2	0.01	5	0.009	21	9	76	6	< .01	< 5	1	< 2	59
97-381 220-240	9.2	1.57	31	5	152	18	1.16	2.3	8	1	5	2.03	< 1	0.63	26	0.11	809	7	0.03	5	0.079	31	7	215	7	< .01	< 5	6	< 2	133
97-381 240-260	2.4	1.09	55	4	125	2	4.48	2.1	7	< 1	8	2.21	< 1	0.46	17	0.1	1132	16	0.03	2	0.093	30	7	245	4	< .01	< 5	5	< 2	88
97-381 260-280	2.4	1.2	58	5	78	< 2	2.56	1.9	5	< 1	6	2.74	< 1	0.46	15	0.12	822	19	0.04	2	0.089	49	7	146	4	< .01	< 5	6	< 2	64
97-381 280-300	1.2	1.12	53	5	112	< 2	4.21	1.7	5	2	7	2.69	< 1	0.38	12	0.12	1136	6	0.03	2	0.074	29	5	186	3	< .01	< 5	6	< 2	61
97-381 300-320	1.1	0.85	31	< 3	106	< 2	13.51	1.1	5	< 1	4	2.33	< 1	0.26	10	0.15	1831	2	0.02	2	0.059	30	4	566	2	< .01	< 5	7	< 2	48
97-381 320-340	0.4	1.33	9	4	103	2	2.35	0.6	8	7	8	3.28	< 1	0.37	23	0.47	894	2	0.07	4	0.082	23	4	112	6	0.01	< 5	29	< 2	69
97-381 340-360	0.4	1.21	16	4	126	< 2	2.66	0.6	7	5	9	3.12	< 1	0.35	25	0.37	735	1	0.06	3	0.081	94	2	124	6	0.02	< 5	27	< 2	72
97-381 360-380	< .3	0.8	12	< 3	104	2	10.74	0.5	4	2	5	2.02	< 1	0.31	18	0.16	1871	2	0.04	2	0.058	36	2	374	4	0.01	< 5	9	< 2	44
97-381 380-400	0.3	1.04	13	5	107	< 2	2.51	0.6	6	4	7	2.81	< 1	0.4	28	0.29	741	1	0.06	3	0.073	28	2	93	6	0.02	< 5	19	< 2	62
97-381 400-420	< .3	0.72	4	4	74	< 2	2.16	0.5	5	4	6	2.59	< 1	0.34	28	0.2	769	1	0.06	3	0.072	29	< 2	102	7	0.03	< 5	19	< 2	45
97-381 420-440	0.3	0.9	15	5	53	2	1.07	0.3	3	3	6	2.5	< 1	0.34	30	0.08	442	2	0.07	2	0.065	18	2	75	10	0.01	< 5	13	< 2	29
97-381 440-460	0.5	0.83	16	3	95	< 2	1.49	0.2	4	4	6	2.95	< 1	0.35	28	0.11	586	3	0.08	3	0.063	29	< 2	119	10	0.03	< 5	15	< 2	49
97-381 460-480	< .3	0.88	7	4	57	< 2	1.63	0.3	4	2	5	2.47	< 1	0.33	28	0.32	699	1	0.06	2	0.061	25	< 2	146	6	0.02	< 5	10	< 2	56
97-381 480-500	< .3	1.12	17	3	429	2	1.88	0.3	5	10	5	2.47	< 1	0.32	27	0.27	824	1	0.06	1	0.06	26	3	161	6	0.01	< 5	6	< 2	65
STANDARD C3	5.8	1.97	56	23	152	17	0.58	24.4	13	176	66	3.5	< 1	0.19	18	0.65	816	25	0.04	36	0.091	38	19	32	21	0.08	20	83	18	148

AMERICAN ASSAY LABORATORIES

AAL 01-0 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
UNIT	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	1	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.

SANTA FE PACIFIC GOLD CORP.
DRILL HOLE ABANDONMENT

Project: Rosebud
Hole No.: 97-381 Date Completed: 3-11-97
Hole Depth: 1000 Hole Size: 5 3/4 - 5 5/8
Artesian: _____ Est. flow: _____ g.p.m. Depth: _____ ft.
Non-Artesian: _____

BENTONITE SLURRY ABANDONMENT

Mud Viscosity: _____ sec./qt. (at completion) (Fluid-drilled holes only)
Mud Viscosity: 75 sec./qt. (abandonment fluid) (All holes)
Mud Weight: 9.2 lbs./gal. (abandonment fluid) (All holes)

SURFACE SEAL

Cement Weight: _____ lbs./gal.
Placed in Hole: From _____ ft. to _____ ft.

CEMENT ABANDONMENT (Artesian Holes)

Cement Weight: _____ lbs./gal.
Placed in Hole: From _____ ft. to _____ ft.
From _____ ft. to _____ ft.

MATERIALS MIXED

Qty.	Size	Product	Brand Name
	50 lb.	Enviroplug Fine	Wyo-Ben
	100 lb.	Barite	M-I
	94 lb.	Cement	Nevada Cement
	50 lb.	Abantonite	Wyo-Ben
See other	50 lb.	Bentonite	

GROUND WATER INFORMATION

Depth/ft.	GPM	Temp.	Depth/ft.	GPM	Temp.
100			900		
200			1000		
300			1100		
400			1200		
500			1300		
600			1400		
700			1500		
800			1600		

OTHER

Mud hole for core Rig with Bentonite - DrisPAK and EZmud
Circulate mud through hole

SANTA FE PACIFIC GOLD CORP.

By: GM

Title: _____

CONTRACTOR Eklund

Rig No. 46

By: D. Schwarl

Title: Driller

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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(702) 738-2594

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

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: Santa Fe Pacific Gold

Address: 250 So. Rock Blvd., Sfe. 100

City Reno State NV Zip 89502

Telephone Number: (702) 858-8000 Fax Number: (702) 858-8011

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 03/09/97 Number of Samples: 100

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
97-381	RC cuttings	
5, 10, 15, 20 to 500'		Au, Ag (ppm) every 5'
<5, 10, 15, 20> to 500'		Composite 20' for trace element analysis, 30 elem. ICP (4 spls in each 20' composite)

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:
R.L. Dixon
SFPG
250 So. Rock Blvd.
Reno, NV 89502

Results to:
R.L. Dixon, SFPG
Charlie Muerhoff
c/o Hecla Mining Co.

Comments:

CLIENT FILE COPY

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Santiago, Chile
Mendoza, Argentina

Company: Santa Fe Pacific Gold Corp.

Address: 250 So. Rock Blvd, Suite 100

City Reno State NV Zip 89502

Telephone Number: (702) 858-8000 Fax Number: (702) 858-8011

Project Name: Rosebud Exploration Purchase Order Number:

Date Submitted: 03/10/97 Number of Samples: 100

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
97-381	RC Cuttings	
505', 510', etc. to 1,000'		Au, Ag (ppm) every 5'
<505', 510', 515', 520'> to 1,000'		Composite 20' for trace element analysis, 30 elem, ICP
		<4 spls. to each 20' composite>

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:

R.L. Dixon, SFPG
250 So. Rock Blvd.
Reno, Nevada 89502

Results to:

R.L. Dixon, SFPG
Charlie Muerhoff
c/o Hecla Mining Co.

Comments:

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SP 97-381C

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Santiago, Chile
Mendoza, Argentina

Company: Santa Fe Pacific Gold

Address: 250 So. Rock Blvd., Suite 100

City Reno State NV Zip 89502

Telephone Number: (702) 858-8000 Fax Number: (702) 858-8011

Project Name: Rosebud Exploration Purchase Order Number: 97-381C

Date Submitted: 4-8-97 Number of Samples: 100

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

SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
97-381	Core	
998 → 1482.1 TD		~~Au, Ag every sample~~
	FA 30	{ Au 30 gram FA in opt
	D210	{ Ag, As, Sb, Hg } in ppm ~~→ ppb~~ ALTER. A SCAN BY [redacted] LAB
		Rl

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:

Radu Conelea - SFPG → ppb
250 S. Rock Blvd.
Reno, NV 89502

Results to:

Radu Conelea - SFPG

Charlie Muerhoff - Hecla

Comments:

SAMPLE DISPATCH COPY

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP042911

American Assay Laboratories

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

SANTA FE PACIFIC GOLD

COPIES TO : RADU CONELEA
: RICHAR DIXON
: CHARLIE MUERHOFF
:

RECEIVED
APR - 2 1997
SANTA FE PACIFIC GOLD
RENO

CLIENT REFERENCE No: 97-381

No. SAMPLES : 100

MAIN SAMPLE TYPE : DRILL CUTTINGS

RECEIVED : 27 MAR 1997

REPORTED : 28 MAR 1997

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

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

SIGNATORY : Doyle Knudsen

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ANALYSIS REPORT SP042911

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CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
97-381 000-005	<0.001		<0.02
97-381 005-010	<0.001		<0.02
97-381 010-015	<0.001		<0.02
97-381 015-020	<0.001		<0.02
97-381 020-025	<0.001		<0.02
97-381 025-030	0.004		0.03
97-381 030-035	0.002		0.06
97-381 035-040	0.002		0.07
97-381 040-045	0.004	0.003	0.09
97-381 045-050	0.002		0.08
97-381 050-055	0.004		0.03
97-381 055-060	0.002		0.04
97-381 060-065	0.003		0.06
97-381 065-070	0.002		0.09
97-381 070-075	0.001		0.05
97-381 075-080	0.003		0.05
97-381 080-085	0.002		0.05
97-381 085-090	0.001		0.06
97-381 090-095	0.001		0.05
97-381 095-100	0.002		0.04
97-381 100-105	0.002		0.07
97-381 105-110	0.002		0.06
97-381 110-115	2.000		0.06
97-381 115-120	0.002		0.06
97-381 120-125	0.003		0.06

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
97-381 125-130	0.002		0.04
97-381 130-135	0.002		0.07
97-381 135-140	0.002		0.04
97-381 140-145	0.008	0.006	0.04
97-381 145-150	0.001		0.03
97-381 150-155	0.001		0.03
97-381 155-160	0.001		0.03
97-381 160-165	0.002		0.03
97-381 165-170	0.002		0.03
97-381 170-175	0.002		0.04
97-381 175-180	0.002		0.04
97-381 180-185	0.002		0.04
97-381 185-190	0.002		0.05
97-381 190-195	0.002		0.02
97-381 195-200	0.002		0.02
97-381 200-205	0.002		0.03
97-381 205-210	0.004	0.004	0.03
97-381 210-215	0.002		0.02
97-381 215-220	0.002		0.03
97-381 220-225	0.006		0.45
97-381 225-230	0.005		0.38
97-381 230-235	0.002		0.15
97-381 235-240	0.001		0.07
97-381 240-245	0.002	0.001	0.06
97-381 245-250	0.002		0.07

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
97-381 250-255	0.001		0.07
97-381 255-260	0.002		0.07
97-381 260-265	0.002		0.05
97-381 265-270	0.003		0.07
97-381 270-275	0.003		0.08
97-381 275-280	0.005		0.06
97-381 280-285	0.002		0.04
97-381 285-290	0.006		0.03
97-381 290-295	0.002		0.03
97-381 295-300	0.003	0.003	0.03
97-381 300-305	0.002		0.03
97-381 305-310	0.001		0.03
97-381 310-315	0.001		<0.02
97-381 315-320	0.001		0.02
97-381 320-325	0.002		<0.02
97-381 325-330	<0.001		<0.02
97-381 330-335	<0.001		<0.02
97-381 335-340	<0.001		<0.02
97-381 340-345	<0.001		<0.02
97-381 345-350	<0.001		<0.02
97-381 350-355	<0.001		<0.02
97-381 355-360	<0.001		<0.02
97-381 360-365	<0.001	<0.001	<0.02
97-381 365-370	<0.001		<0.02
97-381 370-375	<0.001		<0.02

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97-381 375-380	<0.001		<0.02
97-381 380-385	<0.001		<0.02
97-381 385-390	<0.001		<0.02
97-381 390-395	<0.001		<0.02
97-381 395-400	<0.001		<0.02
97-381 400-405	<0.001		<0.02
97-381 405-410	<0.001		<0.02
97-381 410-415	<0.001		<0.02
97-381 415-420	<0.001		<0.02
97-381 420-425	<0.001		<0.02
97-381 425-430	<0.001	<0.001	<0.02
97-381 430-435	<0.001		<0.02
97-381 435-440	<0.001		<0.02
97-381 440-445	<0.001		<0.02
97-381 445-450	<0.001		<0.02
97-381 450-455	<0.001		<0.02
97-381 455-460	<0.001		<0.02
97-381 460-465	<0.001		<0.02
97-381 465-470	<0.001		<0.02
97-381 470-475	<0.001	<0.001	<0.02
97-381 475-480	<0.001		<0.02
97-381 480-485	<0.001		<0.02
97-381 485-490	<0.001		<0.02
97-381 490-495	<0.001		<0.02
97-381 495-500	<0.001		<0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

American Assay Laboratories

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

SANTA FE PACIFIC GOLD

COPIES TO : RADU CONELEA
: RICHAR DIXON
: CHARLIE MUERHOFF
:

RECEIVED
APR - 2 1997
SANTA FE PACIFIC GOLD
RENO

CLIENT REFERENCE No: 97-381 RECEIVED : 28 MAR 1997

No. SAMPLES : 100 REPORTED : 28 MAR 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
AAL01-0	AAL01-0	10%		

SIGNATORY : Doyle Knudsen

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

REPORTED : 28 MAR 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT	AAL01-0 AAL01-0
97-381 500-505	<5		<0.001		<0.5	<0.02	
97-381 505-510	<5		<0.001		<0.5	<0.02	
97-381 510-515	<5		<0.001		<0.5	<0.02	
97-381 515-520	<5		<0.001		<0.5	<0.02	
97-381 520-525	<5		<0.001		<0.5	<0.02	
97-381 525-530	<5		<0.001		<0.5	<0.02	
97-381 530-535	8		<0.001		<0.5	<0.02	
97-381 535-540	30		<0.001		<0.5	<0.02	
97-381 540-545	90		0.003		0.6	<0.02	
97-381 545-550	28		<0.001		1.1	0.03	
97-381 550-555	13	20	<0.001	<0.001	<0.5	<0.02	
97-381 555-560	11		<0.001		<0.5	<0.02	
97-381 560-565	31		<0.001		<0.5	<0.02	
97-381 565-570	10		<0.001		0.9	0.03	
97-381 570-575	<5		<0.001		<0.5	<0.02	
97-381 575-580	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 580-585	13		<0.001		<0.5	<0.02	
97-381 585-590	14		<0.001		<0.5	<0.02	
97-381 590-595	<5		<0.001		<0.5	<0.02	
97-381 595-600	471	500	0.014	0.015	<0.5	<0.02	
97-381 600-605	<5		<0.001		<0.5	<0.02	
97-381 605-610	24		<0.001		<0.5	<0.02	
97-381 610-615	<5		<0.001		<0.5	<0.02	
97-381 615-620	<5		<0.001		<0.5	<0.02	
97-381 620-625	5		<0.001		<0.5	<0.02	

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

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REFERENCE : 97-381

REPORTED : 28 MAR 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT	AAL01-0 AAL01-0
97-381 625-630	13		<0.001		0.5	<0.02	
97-381 630-635	<5		<0.001		0.7	0.02	
97-381 635-640	<5		<0.001		0.6	<0.02	
97-381 640-645	<5		<0.001		<0.5	<0.02	
97-381 645-650	32		<0.001		<0.5	<0.02	
97-381 650-655	<5		<0.001		<0.5	<0.02	
97-381 655-660	<5		<0.001		<0.5	<0.02	
97-381 660-665	<5		<0.001		<0.5	<0.02	
97-381 665-670	23		<0.001		<0.5	<0.02	
97-381 670-675	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 675-680	<5		<0.001		<0.5	<0.02	
97-381 680-685	<5		<0.001		<0.5	<0.02	
97-381 685-690	<5		<0.001		<0.5	<0.02	
97-381 690-695	<5		<0.001		<0.5	<0.02	
97-381 695-700	<5		<0.001		<0.5	<0.02	
97-381 700-705	<5		<0.001		<0.5	<0.02	
97-381 705-710	8		<0.001		0.7	0.02	
97-381 710-715	9		<0.001		<0.5	<0.02	
97-381 715-720	<5		<0.001		<0.5	<0.02	
97-381 720-725	<5		<0.001		<0.5	<0.02	
97-381 725-730	<5		<0.001		<0.5	<0.02	
97-381 730-735	<5		<0.001		<0.5	<0.02	
97-381 735-740	<5		<0.001		<0.5	<0.02	
97-381 740-745	<5		<0.001		<0.5	<0.02	
97-381 745-750	<5		<0.001		0.9	0.03	

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

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REFERENCE : 97-381

REPORTED : 28 MAR 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT	AAL01-0 AAL01-0
97-381 750-755	<5		<0.001		<0.5	<0.02	
97-381 755-760	<5		<0.001		<0.5	<0.02	
97-381 760-765	<5		<0.001		0.6	<0.02	
97-381 765-770	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 770-775	<5		<0.001		<0.5	<0.02	
97-381 775-780	<5		<0.001		<0.5	<0.02	
97-381 780-785	<5		<0.001		0.6	<0.02	
97-381 785-790	<5		<0.001		<0.5	<0.02	
97-381 790-795	<5		<0.001		<0.5	<0.02	
97-381 795-800	<5		<0.001		<0.5	<0.02	
97-381 800-805	<5		<0.001		<0.5	<0.02	
97-381 805-810	<5		<0.001		<0.5	<0.02	
97-381 810-815	<5		<0.001		<0.5	<0.02	
97-381 815-820	<5		<0.001		<0.5	<0.02	
97-381 820-825	<5		<0.001		0.8	0.02	
97-381 825-830	<5		<0.001		<0.5	<0.02	
97-381 830-835	<5		<0.001		<0.5	<0.02	
97-381 835-840	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 840-845	<5		<0.001		<0.5	<0.02	
97-381 845-850	<5		<0.001		<0.5	<0.02	
97-381 850-855	<5		<0.001		<0.5	<0.02	
97-381 855-860	<5		<0.001		<0.5	<0.02	
97-381 860-865	<5		<0.001		<0.5	<0.02	
97-381 865-870	<5		<0.001		<0.5	<0.02	
97-381 870-875	<5		<0.001		<0.5	<0.02	

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043004

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
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REFERENCE : 97-381

REPORTED : 28 MAR 1997

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	Ag(OZ) D210 OPT	AAL01-0 AAL01-0
97-381 875-880	<5		<0.001		<0.5	<0.02	
97-381 880-885	<5		<0.001		2.5	0.07	
97-381 885-890	<5		<0.001		1.6	0.05	
97-381 890-895	<5		<0.001		1.6	0.05	
97-381 895-900	<5		<0.001		0.6	<0.02	
97-381 900-905	<5		<0.001		1.5	0.04	
97-381 905-910	<5		<0.001		1.9	0.06	
97-381 910-915	<5		<0.001		1.0	0.03	
97-381 915-920	<5		<0.001		0.8	0.02	
97-381 920-925	<5		<0.001		0.6	<0.02	
97-381 925-930	<5		<0.001		0.9	0.03	
97-381 930-935	<5	<5	<0.001	<0.001	<0.5	<0.02	
97-381 935-940	<5		<0.001		0.6	<0.02	
97-381 940-945	<5		<0.001		1.5	0.04	
97-381 945-950	<5		<0.001		1.0	0.03	
97-381 950-955	<5		<0.001		<0.5	<0.02	
97-381 955-960	<5		<0.001		<0.5	<0.02	
97-381 960-965	<5		<0.001		0.6	<0.02	
97-381 965-970	<5		<0.001		1.8	0.05	
97-381 970-975	20		<0.001		0.9	0.03	
97-381 975-980	<5		<0.001		0.5	<0.02	
97-381 980-985	<5		<0.001		0.5	<0.02	
97-381 985-990	<5		<0.001		2.6	0.08	
97-381 990-995	11		<0.001		1.6	0.05	
97-381 995-1000	6		<0.001		0.8	0.02	

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043627

American Assay Laboratories

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

SANTA FE PACIFIC GOLD

COPIES TO : RADU CONELEA

: RICHARD DIXON

: CHARLIE MUERHOFF

:

RECEIVED
MAY 14 1997
SANTA FE PACIFIC GOLD
RENO

CLIENT REFERENCE No: 97-381

No. SAMPLES : 100

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 11 APR 1997

REPORTED : 18 APR 1997

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

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag	D210	10%	ppm	0.5
As	D210	10%	ppm	2
Hg	D210	10%	ppb	5
Sb	D210	10%	ppm	1

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP043627

American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

REPORTED : 18 APR 1997

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	As D210 ppm	Hg D210 ppb	Sb D210 ppm
97-381 998-1000	<0.001		<0.5	<2	32	<1
97-381 1000-1005	<0.001		<0.5	<2	37	<1
97-381 1005-1010	<0.001		<0.5	<2	14	<1
97-381 1010-1015	<0.001		<0.5	<2	14	<1
97-381 1015-1020	<0.001		<0.5	<2	22	<1
97-381 1020-1025	<0.001		<0.5	<2	19	<1
97-381 1025-1030	<0.001		<0.5	<2	17	<1
97-381 1030-1035	<0.001		<0.5	<2	38	<1
97-381 1035-1040	<0.001		<0.5	<2	21	<1
97-381 1040-1045	<0.001		<0.5	<2	18	<1
97-381 1045-1050	<0.001		<0.5	<2	31	<1
97-381 1050-1055	<0.001		<0.5	<2	15	<1
97-381 1055-1060	<0.001		<0.5	<2	36	<1
97-381 1060-1065	<0.001		<0.5	2	35	<1
97-381 1065-1070	<0.001		<0.5	<2	20	<1
97-381 1070-1075	<0.001		<0.5	<2	62	<1
97-381 1075-1080	<0.001		<0.5	<2	12	<1
97-381 1080-1085	<0.001		<0.5	<2	46	<1
97-381 1085-1090	<0.001		<0.5	2	25	<1
97-381 1090-1095	<0.001		<0.5	7	27	<1
97-381 1095-1100	<0.001		<0.5	4	26	<1
97-381 1100-1105	<0.001		<0.5	<2	5	<1
97-381 1105-1110	<0.001		<0.5	13	<5	<1
97-381 1110-1115	<0.001		<0.5	<2	<5	<1
97-381 1115-1120	<0.001		<0.5	<2	<5	<1

AMERICAN ASSAY LABORATORIES

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American Assay Laboratories

CLIENT : SANTA FE PACIFIC GOLD
PROJECT : ROSEBUD EXPLORATION
REFERENCE : 97-381

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	As D210 ppm	Hg D210 ppb	Sb D210 ppm
97-381 1120-1125	<0.001		<0.5	<2	9	<1
97-381 1125-1130	<0.001		<0.5	<2	<5	<1
97-381 1130-1135	<0.001		<0.5	<2	<5	<1
97-381 1135-1140	<0.001		<0.5	<2	<5	<1
97-381 1140-1145	<0.001		<0.5	<2	24	<1
97-381 1145-1150	<0.001		<0.5	3	38	<1
97-381 1150-1155	<0.001		<0.5	5	105	<1
97-381 1155-1160	<0.001		<0.5	4	87	<1
97-381 1160-1165	<0.001		<0.5	4	40	<1
97-381 1165-1170	<0.001		<0.5	3	37	<1
97-381 1170-1175	<0.001		<0.5	2	26	<1
97-381 1175-1180	<0.001		<0.5	4	81	<1
97-381 1180-1185	0.001		1.4	32	149	<1
97-381 1185-1190	<0.001		<0.5	19	237	<1
97-381 1190-1195	0.001	0.001	<0.5	47	140	<1
97-381 1195-1200	<0.001		<0.5	4	54	1
97-381 1200-1202	<0.001		1.1	2	83	1
97-381 1202-1207	<0.001		<0.5	2	37	<1
97-381 1207.0-1211.5	<0.001		<0.5	<2	60	<1
97-381 1211.5-1217.0	<0.001		<0.5	9	62	<1
97-381 1217.0-1221.8	<0.001		<0.5	12	18	<1
97-381 1221.8-1227.0	<0.001		<0.5	6	9	<1
97-381 1227-1232	<0.001		<0.5	13	17	<1
97-381 1232-1237	0.001	0.001	<0.5	36	50	<1
97-381 1237.0-1242.2	0.001		<0.5	54	43	<1

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	As D210 ppm	Hg D210 ppb	Sb D210 ppm
97-381 1242.2-1245.5	<0.001		<0.5	48	37	<1
97-381 1245.5-1250.0	<0.001		<0.5	23	21	<1
97-381 1250-1255	<0.001		<0.5	8	12	<1
97-381 1255-1260	<0.001		<0.5	4	<5	<1
97-381 1265-1270	<0.001		<0.5	12	74	<1
97-381 1270-1275	0.001		0.6	29	46	1
97-381 1275-1280	<0.001		<0.5	14	40	1
97-381 1280-1285	0.003		0.7	21	7	<1
97-381 1285-1290	0.001		<0.5	7	7	2
97-381 1290-1295	<0.001		0.5	15	9	2
97-381 1295-1300	<0.001		<0.5	7	23	2
97-381 1300-1305	<0.001		<0.5	4	5	<1
97-381 1305-1310	0.002		<0.5	12	45	1
97-381 1310-1315	0.001	0.001	<0.5	18	22	2
97-381 1315-1320	0.002		<0.5	15	62	1
97-381 1320-1325	0.001		<0.5	33	26	1
97-381 1325-1330	0.006		1.4	84	35	3
97-381 1330-1334	0.009		1.9	51	43	3
97-381 1334.0-1338.9	0.005		0.6	11	23	1
97-381 1338.9-1344.2	<0.001		<0.5	31	44	2
97-381 1344.2-1348.0	0.001		0.5	22	25	1
97-381 1348-1353	<0.001		1.1	42	22	2
97-381 1353-1355	<0.001		<0.5	24	45	1
97-381 1355.0-1358.5	0.018	0.016	<0.5	3	49	<1
97-381 1358.5-1362.5	0.004		<0.5	16	142	<1

AMERICAN ASSAY LABORATORIES

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag D210 ppm	As D210 ppm	Hg D210 ppb	Sb D210 ppm
97-381 1362.5-1367.5	0.001		<0.5	9	<5	<1
97-381 1367.5-1372.5	<0.001		<0.5	18	<5	1
97-381 1372.5-1377.5	<0.001	<0.001	<0.5	5	12	<1
97-381 1377.5-1382.0	<0.001		<0.5	18	28	<1
97-381 1382.0-1383.1	<0.001		<0.5	31	38	<1
97-381 1383.1-1388.0	<0.001		<0.5	65	49	1
97-381 1388-1393	<0.001		<0.5	73	61	1
97-381 1393-1398	<0.001		0.7	70	73	1
97-381 1398-1403	<0.001		0.5	59	98	2
97-381 1403-1406	<0.001		<0.5	14	31	1
97-381 1406.0-1411.3	<0.001		<0.5	12	32	<1
97-381 1411.3-1416.0	<0.001		<0.5	9	55	<1
97-381 1416-1421	<0.001		<0.5	10	21	<1
97-381 1421-1426	<0.001		<0.5	11	52	1
97-381 1426-1431	<0.001		<0.5	9	58	<1
97-381 1431-1436	<0.001		<0.5	11	61	1
97-381 1436-1441	<0.001		<0.5	11	46	1
97-381 1441.0-1445.7	<0.001		<0.5	6	27	<1
97-381 1445.7-1451.0	<0.001		<0.5	18	14	1
97-381 1451.0-1456.5	<0.001		<0.5	13	24	<1
97-381 1456.5-1462.1	<0.001		<0.5	15	37	<1
97-381 1462.1-1467.0	<0.001		<0.5	13	17	<1
97-381 1467.0-1472.1	<0.001		<0.5	14	42	<1
97-381 1472.1-1477.0	<0.001		<0.5	17	58	1
97-381 1477.0 T.D.	<0.001		<0.5	15	30	<1

AMERICAN ASSAY LABORATORIES

AAL 01-0 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
UNIT	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	1	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: SANTA FE PACIFIC GOLD CORP.
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP043004
METHOD: AAL 01-0

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	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
97-381 500-520	0.3	0.96	7	4	872	< 2	1.4	0.2	5	27	12	2.99	< 1	0.29	22	0.32	694	3	0.07	5	0.062	22	< 2	135	6	0.02	< 5	10	< 2	61
97-381 520-540	0.4	1.09	16	4	238	< 2	2.09	0.3	4	3	11	2.87	< 1	0.27	23	0.16	699	9	0.05	3	0.065	66	3	145	7	0.01	< 5	10	< 2	62
97-381 540-560	0.4	1.09	14	5	381	< 2	1.03	< .2	4	13	6	2.58	< 1	0.28	28	0.16	507	2	0.09	3	0.067	26	2	122	10	0.01	< 5	10	< 2	54
97-381 560-580	0.6	0.81	10	3	136	< 2	1.76	< .2	4	7	10	2.88	< 1	0.28	27	0.2	808	3	0.09	5	0.07	19	< 2	168	10	0.01	< 5	12	< 2	60
97-381 580-600	0.4	0.69	10	4	60	< 2	1.79	0.3	4	7	8	3.02	< 1	0.26	29	0.16	477	3	0.09	4	0.07	16	< 2	156	11	0.02	< 5	13	< 2	55
97-381 600-620	0.3	0.63	3	4	62	< 2	0.94	< .2	4	10	10	3.19	< 1	0.27	29	0.14	353	4	0.09	5	0.072	14	< 2	102	12	0.03	< 5	13	< 2	52
97-381 620-640	1	0.8	4	6	68	< 2	0.94	0.3	5	9	11	3.19	< 1	0.25	25	0.31	649	3	0.09	5	0.069	30	< 2	89	11	0.03	< 5	14	< 2	61
97-381 640-660	0.4	0.73	2	5	66	< 2	1	< .2	5	8	14	3.32	< 1	0.29	30	0.2	560	3	0.1	6	0.072	60	< 2	111	12	0.03	< 5	14	< 2	66
97-381 660-680	0.4	1.03	21	3	44	< 2	1.38	0.2	4	5	9	3.12	< 1	0.31	29	0.25	547	4	0.08	4	0.075	33	< 2	161	11	0.01	< 5	12	< 2	63
97-381 680-700	< .3	0.8	< 2	4	59	< 2	0.8	0.3	6	10	15	3.25	< 1	0.24	27	0.33	897	3	0.11	6	0.072	69	< 2	75	11	0.05	< 5	15	< 2	84
97-381 700-720	0.4	0.77	3	5	58	< 2	0.84	< .2	4	10	11	3.47	< 1	0.32	29	0.12	588	3	0.1	6	0.072	19	< 2	120	11	0.06	< 5	15	< 2	57
97-381 720-740	< .3	0.58	4	5	62	3	0.51	< .2	3	9	10	2.78	< 1	0.3	28	0.08	365	2	0.08	6	0.065	24	< 2	89	13	0.05	< 5	7	< 2	29
97-381 740-760	0.4	0.89	6	5	76	5	0.67	0.2	3	5	7	2.47	< 1	0.5	31	0.14	445	2	0.08	3	0.055	61	< 2	145	13	0.02	< 5	4	< 2	38
97-381 760-780	0.4	0.75	3	6	105	18	0.94	0.3	3	6	10	2.54	< 1	0.37	27	0.09	467	3	0.09	5	0.054	38	< 2	131	11	0.02	< 5	5	< 2	62
97-381 780-800	< .3	1.32	7	7	98	4	1.58	0.6	3	3	6	2.47	< 1	0.59	31	0.16	811	< 1	0.08	2	0.061	60	< 2	228	8	0.02	< 5	5	< 2	38
97-381 800-820	< .3	0.85	3	3	100	< 2	1.24	< .2	3	4	6	2.03	< 1	0.37	35	0.19	741	2	0.08	3	0.061	52	< 2	155	7	0.01	< 5	4	< 2	49
97-381 820-840	0.4	0.93	4	4	87	< 2	1.47	0.4	3	4	6	2.21	< 1	0.34	35	0.26	1017	1	0.06	3	0.063	23	< 2	158	7	0.01	< 5	5	< 2	65
97-381 840-860	< .3	1.02	2	3	390	< 2	1.53	0.4	3	13	7	2.09	< 1	0.41	35	0.25	818	2	0.07	3	0.057	18	< 2	218	6	0.01	< 5	4	< 2	62
97-381 860-880	< .3	0.69	3	3	93	< 2	1.32	0.2	2	6	21	1.59	< 1	0.34	36	0.11	692	1	0.06	4	0.038	33	< 2	163	8	0.01	< 5	2	< 2	55
97-381 880-900	1.5	0.71	16	< 3	131	3	1.33	0.5	3	6	8	1.62	< 1	0.33	32	0.1	636	2	0.05	4	0.041	28	2	194	6	0.01	< 5	2	< 2	88
97-381 900-920	1.2	0.58	6	< 3	76	3	1.18	0.4	2	7	7	1.43	< 1	0.3	39	0.08	631	1	0.06	5	0.036	23	< 2	145	9	0.01	< 5	3	< 2	57
97-381 920-940	0.6	0.54	7	< 3	111	< 2	1.28	< .2	2	7	8	1.68	< 1	0.3	42	0.05	649	2	0.05	4	0.031	28	< 2	167	11	0.01	< 5	5	< 2	38
97-381 940-960	0.8	0.5	7	3	97	< 2	1.23	1.4	3	10	9	1.96	< 1	0.26	43	0.06	756	3	0.07	6	0.028	25	< 2	111	12	0.01	< 5	10	< 2	75
97-381 960-980	1	0.61	9	3	242	2	0.85	0.4	3	9	9	1.72	< 1	0.3	46	0.06	815	3	0.07	4	0.039	25	2	134	12	< .01	< 5	8	< 2	69
97-381 980-1000	1.1	0.61	5	< 3	71	2	2.24	0.2	1	6	6	0.83	< 1	0.38	35	0.06	1326	2	0.04	2	0.035	25	< 2	213	7	< .01	< 5	1	< 2	38
STANDARD C3	5.7	1.91	52	20	145	17	0.57	24.2	13	180	67	3.61	1	0.2	18	0.65	836	26	0.05	37	0.098	36	16	32	21	0.07	21	82	18	145

AMERICAN ASSAY LABORATORIES

AAL 01-0 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
UNIT	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	0.3	0.01	2	3	1	2	0.01	0.2	1	1	1	0.01	1	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.

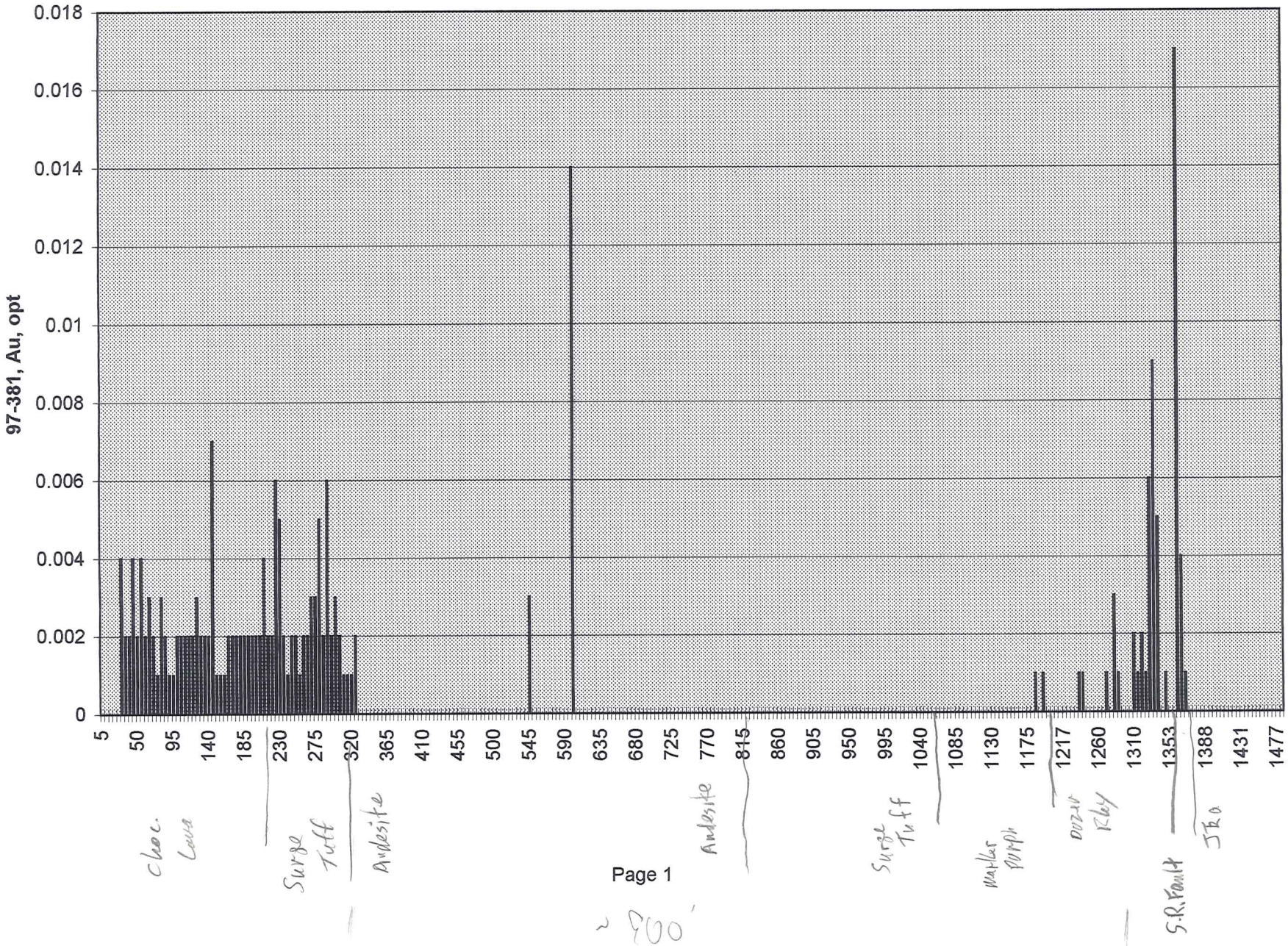
AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431
PHONE: (702) 356-0606
FAX: (702) 356-1413

CLIENT: SANTA FE PACIFIC GOLD CORP.
CLIENT REF: ROSEBUD EXPLORATION
AAL REF: SP042911
METHOD: AAL 01-0

ELEMENT SAMPLES	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	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
97-381 000-020	0.3	1.38	8	24	178	< 2	1.46	0.3	7	15	17	2.47	< 1	0.4	34	0.37	539	3	0.21	15	0.054	35	2	138	14	0.03	< 5	38	< 2	65
97-381 020-040	1.7	0.81	41	6	136	< 2	0.23	< .2	2	5	13	1.54	< 1	0.44	28	0.08	235	3	0.06	5	0.019	76	11	143	10	< .01	< 5	15	< 2	40
97-381 040-060	2.2	0.67	66	5	122	< 2	0.13	< .2	2	3	10	1.65	< 1	0.39	28	0.03	151	4	0.05	3	0.018	54	16	142	10	< .01	< 5	9	2	37
97-381 060-080	2.3	0.64	55	5	75	2	0.12	< .2	1	2	9	1.23	< 1	0.31	33	0.03	96	2	0.02	3	0.013	49	16	72	12	< .01	< 5	2	2	36
97-381 080-100	2.1	0.77	34	4	36	< 2	0.16	0.5	3	2	12	1.49	< 1	0.36	24	0.03	75	2	0.02	3	0.012	63	11	102	9	< .01	< 5	2	< 2	62
97-381 100-120	2.8	0.93	49	4	72	2	0.19	0.2	4	< 1	17	1.92	< 1	0.47	17	0.05	70	2	0.02	4	0.01	34	15	80	7	< .01	< 5	4	2	74
97-381 120-140	2	0.73	110	5	62	< 2	0.17	< .2	5	< 1	10	1.93	1	0.39	28	0.03	93	2	0.02	5	0.007	55	11	45	10	< .01	< 5	2	< 2	77
97-381 140-160	1.3	0.55	100	3	78	< 2	0.14	0.4	4	3	6	1.92	< 1	0.29	19	0.02	90	1	0.01	4	0.012	22	7	93	9	< .01	< 5	1	< 2	65
97-381 160-180	1.5	0.62	97	5	79	< 2	0.16	0.2	5	2	7	1.93	< 1	0.32	19	0.03	91	2	0.01	4	0.011	27	7	85	9	< .01	< 5	1	2	75
97-381 180-200	1.4	0.44	105	3	69	< 2	0.11	0.8	3	5	8	1.75	< 1	0.24	14	0.02	100	2	0.01	5	0.008	24	8	62	7	< .01	< 5	1	< 2	56
97-381 200-220	1.2	0.44	96	3	60	< 2	0.11	1.7	4	4	8	1.76	< 1	0.19	14	0.02	94	2	0.01	5	0.009	21	9	76	6	< .01	< 5	1	< 2	59
97-381 220-240	9.2	1.57	31	5	152	18	1.16	2.3	8	1	5	2.03	< 1	0.63	26	0.11	809	7	0.03	5	0.079	31	7	215	7	< .01	< 5	6	< 2	133
97-381 240-260	2.4	1.09	55	4	125	2	4.48	2.1	7	< 1	8	2.21	< 1	0.46	17	0.1	1132	16	0.03	2	0.093	30	7	245	4	< .01	< 5	5	< 2	88
97-381 260-280	2.4	1.2	58	5	78	< 2	2.56	1.9	5	< 1	6	2.74	< 1	0.46	15	0.12	822	19	0.04	2	0.089	49	7	146	4	< .01	< 5	6	< 2	64
97-381 280-300	1.2	1.12	53	5	112	< 2	4.21	1.7	5	2	7	2.69	< 1	0.38	12	0.12	1136	6	0.03	2	0.074	29	5	186	3	< .01	< 5	6	< 2	61
97-381 300-320	1.1	0.85	31	< 3	106	< 2	13.51	1.1	5	< 1	4	2.33	< 1	0.26	10	0.15	1831	2	0.02	2	0.059	30	4	566	2	< .01	< 5	7	< 2	48
97-381 320-340	0.4	1.33	9	4	103	2	2.35	0.6	8	7	8	3.28	< 1	0.37	23	0.47	894	2	0.07	4	0.082	23	4	112	6	0.01	< 5	29	< 2	69
97-381 340-360	0.4	1.21	16	4	126	< 2	2.66	0.6	7	5	9	3.12	< 1	0.35	25	0.37	735	1	0.06	3	0.081	94	2	124	6	0.02	< 5	27	< 2	72
97-381 360-380	< .3	0.8	12	< 3	104	2	10.74	0.5	4	2	5	2.02	< 1	0.31	18	0.16	1871	2	0.04	2	0.058	36	2	374	4	0.01	< 5	9	< 2	44
97-381 380-400	0.3	1.04	13	5	107	< 2	2.51	0.6	6	4	7	2.81	< 1	0.4	28	0.29	741	1	0.06	3	0.073	28	2	93	6	0.02	< 5	19	< 2	62
97-381 400-420	< .3	0.72	4	4	74	< 2	2.16	0.5	5	4	6	2.59	< 1	0.34	28	0.2	769	1	0.06	3	0.072	29	< 2	102	7	0.03	< 5	19	< 2	45
97-381 420-440	0.3	0.9	15	5	53	2	1.07	0.3	3	3	6	2.5	< 1	0.34	30	0.08	442	2	0.07	2	0.065	18	2	75	10	0.01	< 5	13	< 2	29
97-381 440-460	0.5	0.83	16	3	95	< 2	1.49	0.2	4	4	6	2.95	< 1	0.35	28	0.11	586	3	0.08	3	0.063	29	< 2	119	10	0.03	< 5	15	< 2	49
97-381 460-480	< .3	0.88	7	4	57	< 2	1.63	0.3	4	2	5	2.47	< 1	0.33	28	0.32	699	1	0.06	2	0.061	25	< 2	146	6	0.02	< 5	10	< 2	56
97-381 480-500	< .3	1.12	17	3	429	2	1.88	0.3	5	10	5	2.47	< 1	0.32	27	0.27	824	1	0.06	1	0.06	26	3	161	6	0.01	< 5	6	< 2	65
STANDARD C3	5.8	1.97	56	23	152	17	0.58	24.4	13	176	66	3.5	< 1	0.19	18	0.65	816	25	0.04	36	0.091	38	19	32	21	0.08	20	83	18	148

Au

Au, opt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1085
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1175
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1310
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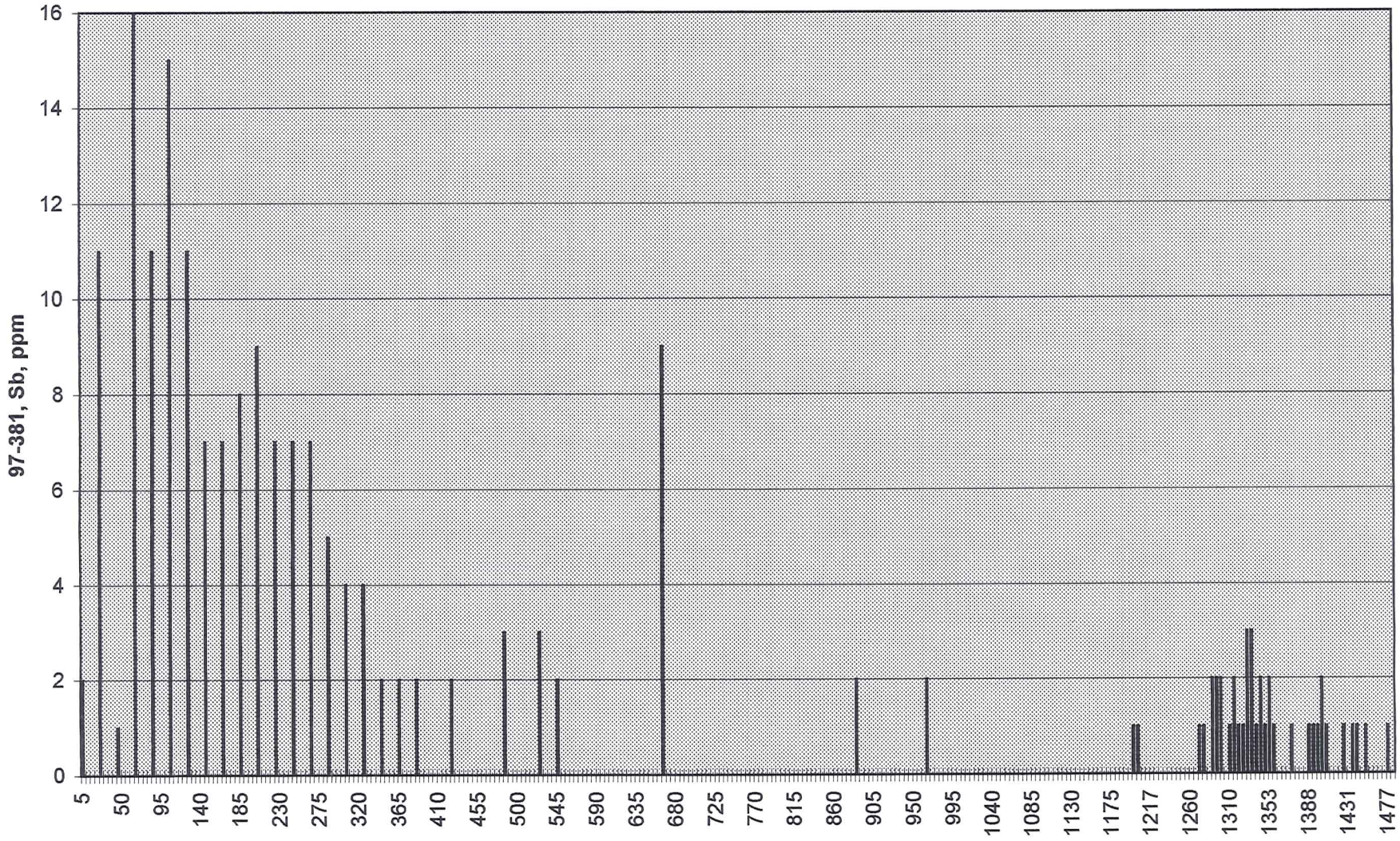
1388
1431
1477
Chloc. Lava
Surge Tuff
Andesite
Andesite
Surge Tuff
Marker Pumpk
Dozzir Rhy
S.R. Fault
JRD

~ 900'

Sb, ppm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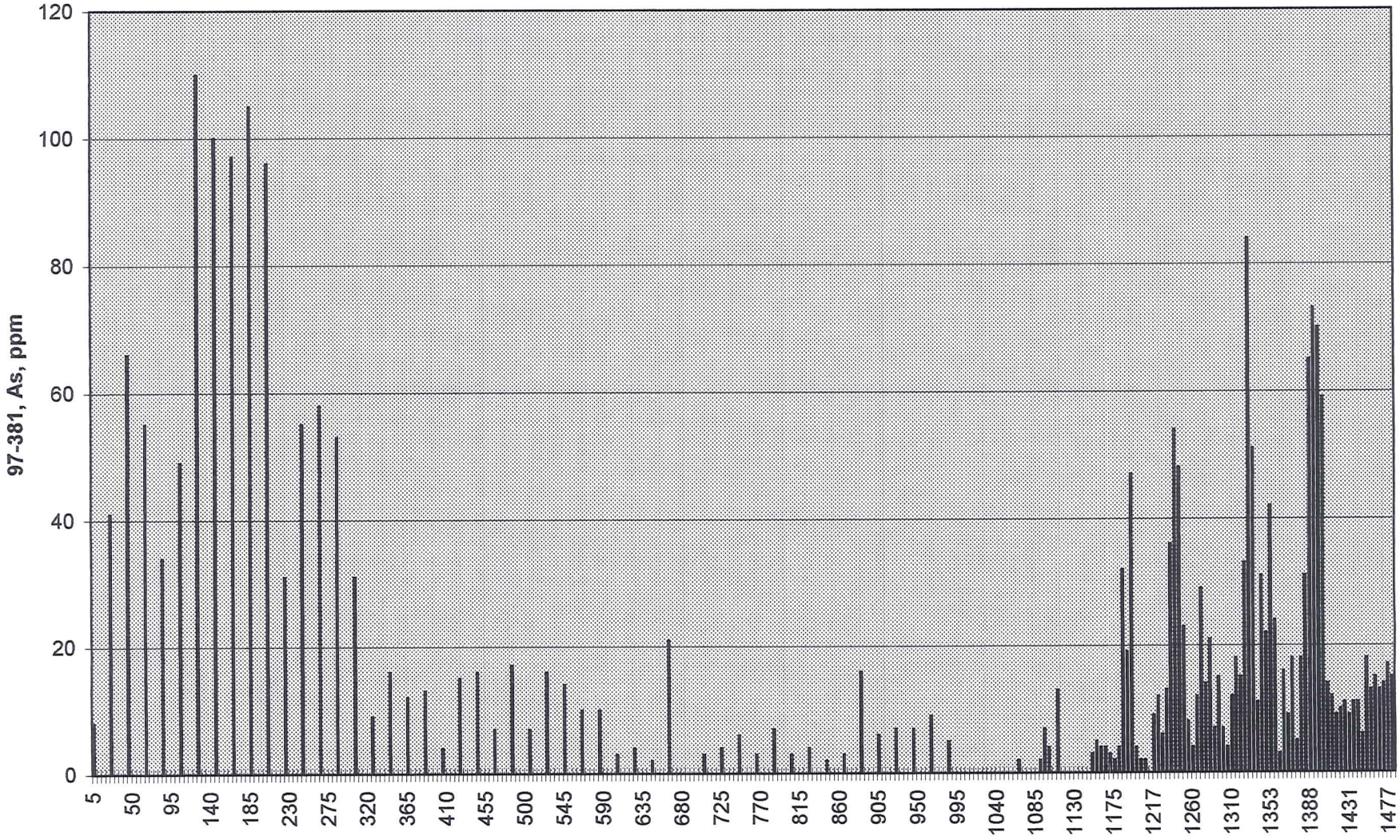
1431
1477

As, ppm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590
635
680
725
770
815
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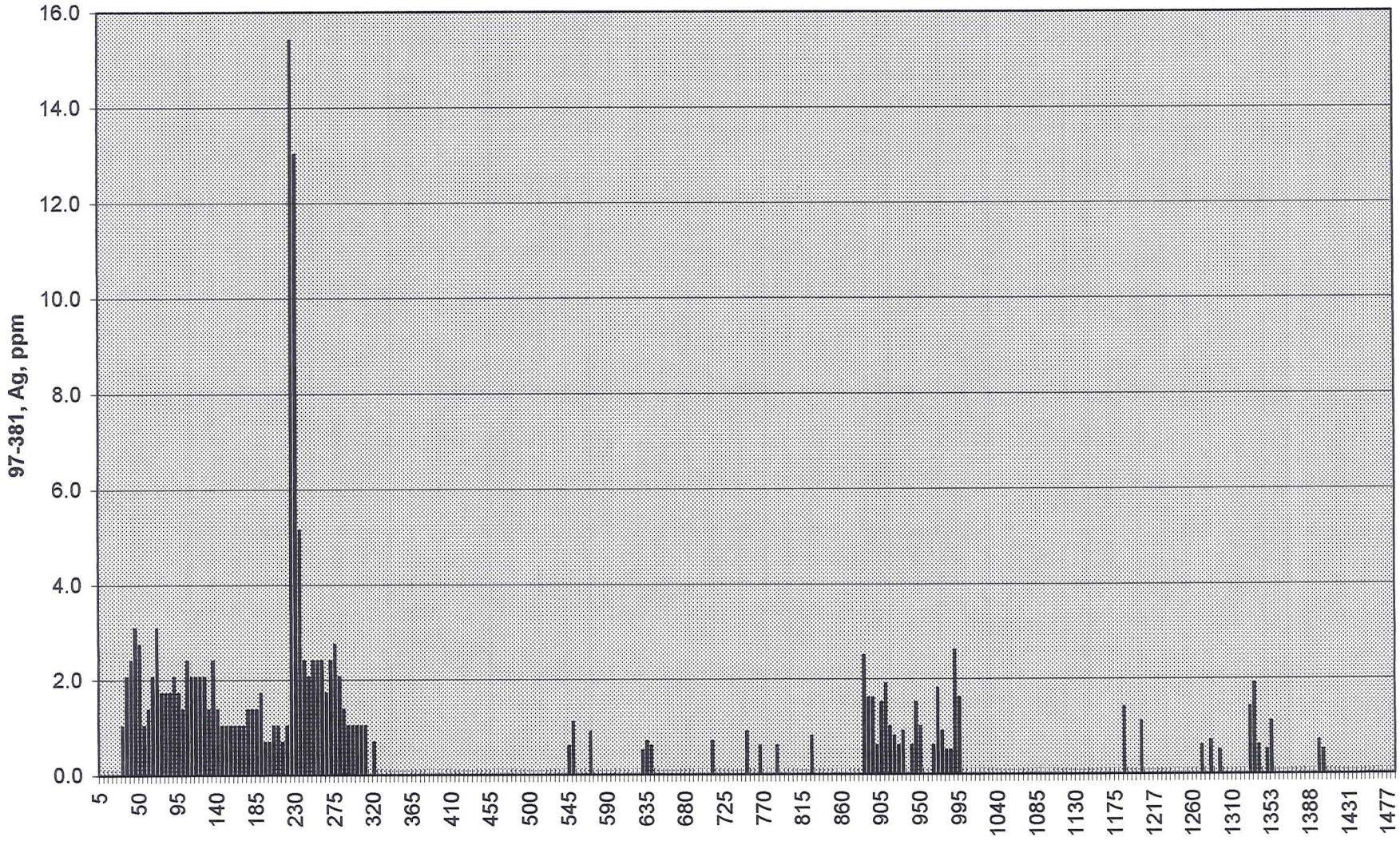
Ag, ppm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500
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590
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680
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770
815
860
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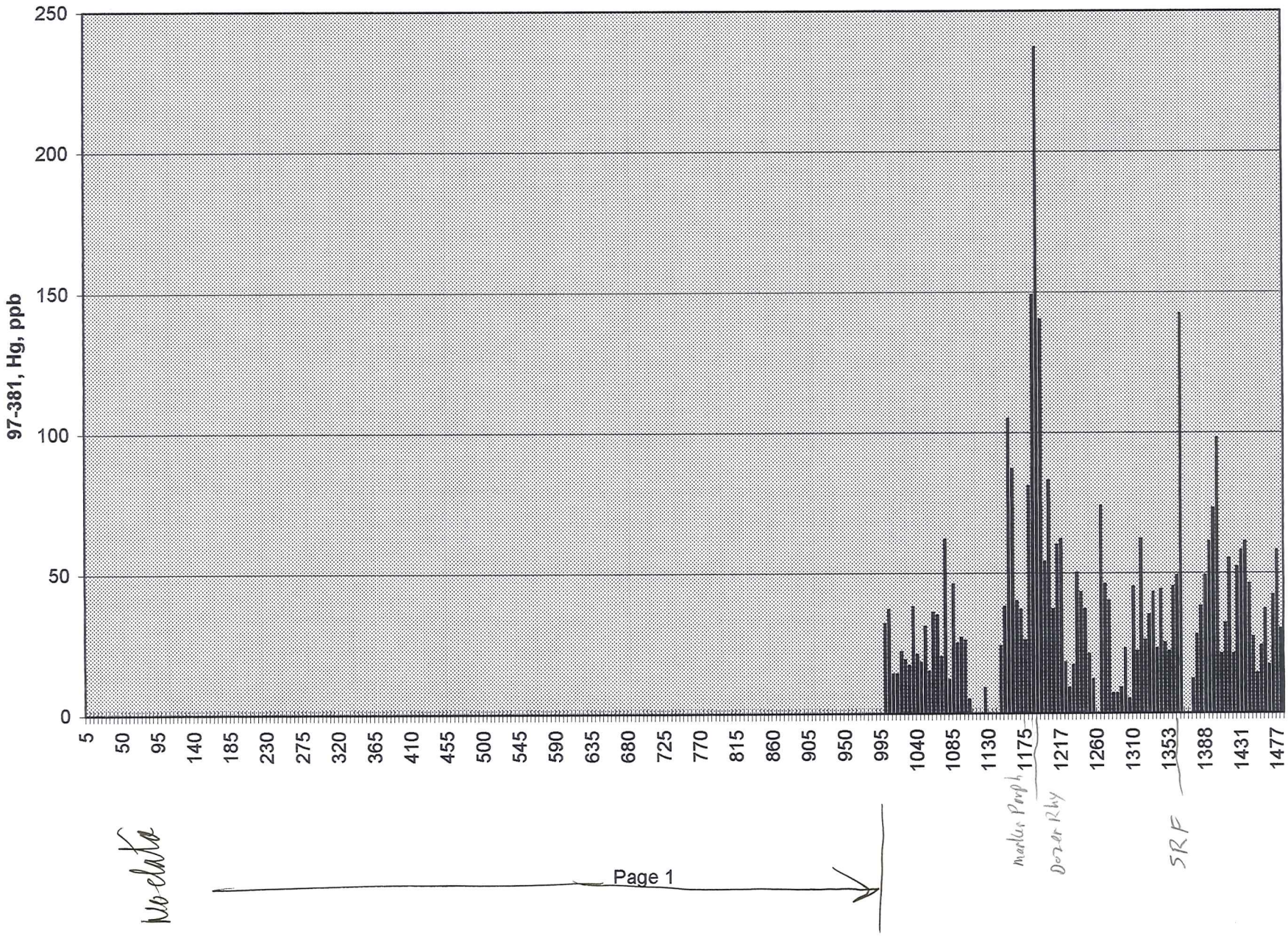
1477

Hg

Hg, ppb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140
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275
320
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500
545
590
635
680
725
770
815
860
905
950
995
1040
1085
1130
1175
1217
1260
1310
1353
1388
1431
1477
Marlin Prph
Dozer Rhy
SRF
No data
Page 1

SANTA FE PACIFIC GOLD CORP.
DRILL HOLE ABANDONMENT

Project: ROSEBUD #4
Hole No.: 97-381 Date Completed: 3-25-97
Hole Depth: 1482 Hole Size: 3.895
Artesian: NO Est. flow: _____ g.p.m. Depth: _____ ft.
Non-Artesian: _____

BENTONITE SLURRY ABANDONMENT

Mud Viscosity: _____ sec./qt. (at completion) (Fluid-drilled holes only)
Mud Viscosity: _____ sec./qt.(abandonment fluid) (All holes)
Mud Weight: 9 lbs./gal. (abandonment fluid) (All holes)

SURFACE SEAL

Cement Weight: _____ lbs./gal.
Placed in Hole: From _____ ft. to _____ ft.

CEMENT ABANDONMENT (Artesian Holes)

Cement Weight: _____ lbs./gal.
Placed in Hole: From _____ ft. to _____ ft.
From _____ ft. to _____ ft.

MATERIALS MIXED

Qty.	Size	Product	Brand Name
	50 lb	Enviroplug Coarse	Wyo-Ben
	94 lb	Cement	Nevada Cement
49	50 lb	Abandonite	Wyo-Ben

GROUND WATER INFORMATION

Depth/ft.	GPM	Temp.	Depth/ft.	GPM	Temp.
100					
200					
300					
400					
500					
600					
700					
800					

OTHER

SANTA FE PACIFIC GOLD CORP.

By: _____
Title: _____

CONTRACTOR Bart Longyear
Rig No. 474
By: M.D. Williams
Title: Rig Sup. Driller

SANTA FE PACIFIC GOLD CORP.
DRILL HOLE ABANDONMENT AND SURFACE SEAL

LABOR CONTRACTOR

Project: Rosebud

Hole #: 97-381

Drilled By: Longyear

Date Completed: 4-24-97

Hole Depth: 1482

Hole Size: 3.875

Wet Hole: Y

Dry Hole:

SURFACE SEAL

Cement Weight: 15 lbs./gal.

Placed in Hole: From 10 ft. to 0 ft.

MATERIALS MIXED

Qty.	Size	Product	Brand Name
4	50 lbs.	Enviroplug Coarse	Wyo-Ben
2	94 lbs.	Cement	Nevada Cement

REMARKS

Hole Bridged-up

SANTA FE PACIFIC GOLD CORP.

By: [signature]

Title:

TAYLOR SERVICES INC.

By: Ramon Romero

Title:

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* SANTA FE PACIFIC GOLD *
****

JOB NUMBER: 29-0521-311

WELL NAME: CSF97-381 / VERTICAL

LOCATION: ROSEBUD

SURVEY DATE: 03/24/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: 165.50

WELNAV

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

COMMENTS: ** BOART LONGYEAR **
** MIKE WILLIAMS **
**** MATT EBERT ****

****
****
*** 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

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: CSF97-381 / 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	0.41	-0.194	-88.76	259.00	0.09 S	0.45 W	2.08	1.04	0.45	AT 259.00
100.0	99.98	1.43	-0.851	-88.25	246.82	0.47 S	1.59 W	1.53	0.77	1.66	AT 253.44
150.0	149.94	3.23	-1.962	-86.88	255.88	1.11 S	3.61 W	2.84	1.42	3.78	AT 252.98
200.0	199.84	5.97	-3.276	-86.15	260.81	1.71 S	6.59 W	1.58	0.79	6.81	AT 255.48
250.0	249.73	9.13	-4.454	-86.10	266.80	2.07 S	9.95 W	0.82	0.41	10.16	AT 258.25
300.0	299.61	12.52	-5.199	-85.91	276.65	1.96 S	13.41 W	1.42	0.71	13.56	AT 261.70
350.0	349.46	16.30	-5.715	-85.33	276.35	1.53 S	17.21 W	1.16	0.58	17.28	AT 264.93
400.0	399.30	20.22	-6.443	-85.51	270.99	1.27 S	21.19 W	0.93	0.46	21.23	AT 266.58
450.0	449.13	24.28	-7.486	-84.89	268.79	1.28 S	25.37 W	1.29	0.65	25.40	AT 267.11
500.0	498.91	28.69	-8.912	-84.46	264.07	1.58 S	30.00 W	1.23	0.61	30.04	AT 266.99
550.0	548.67	33.28	-10.606	-84.31	263.92	2.09 S	34.86 W	0.30	0.15	34.93	AT 266.57
600.0	598.39	38.23	-12.373	-83.62	265.23	2.58 S	40.10 W	1.41	0.70	40.18	AT 266.32
650.0	648.08	43.46	-14.427	-83.45	260.49	3.28 S	45.68 W	1.12	0.56	45.80	AT 265.89
700.0	697.73	48.89	-16.761	-82.98	261.43	4.21 S	51.51 W	0.97	0.48	51.68	AT 265.33
750.0	747.33	54.71	-19.106	-82.60	263.13	5.05 S	57.73 W	0.87	0.44	57.95	AT 265.00
800.0	796.89	60.97	-21.203	-82.20	268.22	5.54 S	64.32 W	1.56	0.78	64.56	AT 265.08
850.0	846.42	67.73	-22.484	-81.93	278.63	5.12 S	71.18 W	2.92	1.46	71.36	AT 265.89
900.0	895.67	76.27	-22.719	-78.35	285.49	3.25 S	79.52 W	7.52	3.76	79.58	AT 267.66
950.0	944.76	85.72	-21.858	-79.72	293.95	0.09 S	88.46 W	4.22	2.11	88.46	AT 269.94
1000.0	993.87	94.98	-20.434	-78.67	292.12	3.57 N	97.09 W	2.21	1.10	97.15	AT 272.11
1050.0	1042.94	104.40	-18.581	-79.16	298.79	7.69 N	105.76 W	2.74	1.37	106.04	AT 274.16
1100.0	1092.16	112.83	-16.157	-80.61	302.00	12.11 N	113.34 W	3.11	1.56	113.98	AT 276.10
1150.0	1141.46	120.84	-13.679	-80.09	300.92	16.49 N	120.49 W	1.10	0.55	121.61	AT 277.79
1200.0	1190.55	129.93	-11.139	-78.14	298.97	21.19 N	128.68 W	3.97	1.98	130.41	AT 279.35
1250.0	1239.66	138.99	-8.593	-80.17	301.14	25.88 N	136.83 W	4.14	2.07	139.25	AT 280.71
1300.0	1288.88	147.40	-6.052	-79.59	300.99	30.42 N	144.35 W	1.16	0.58	147.52	AT 281.90
1350.0	1338.05	156.10	-3.529	-79.52	299.84	35.01 N	152.17 W	0.44	0.22	156.14	AT 282.96
1400.0	1387.20	164.98	-1.093	-79.25	299.34	39.55 N	160.18 W	0.57	0.29	164.99	AT 283.87
1421.0	1407.83	168.74	-0.008	-79.31	301.42	41.53 N	163.55 W	1.86	0.39	168.74	AT 284.25

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*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  1421.0 FEET EQUALS    168.74    FEET AT   284.25         *
*                          ********                         *
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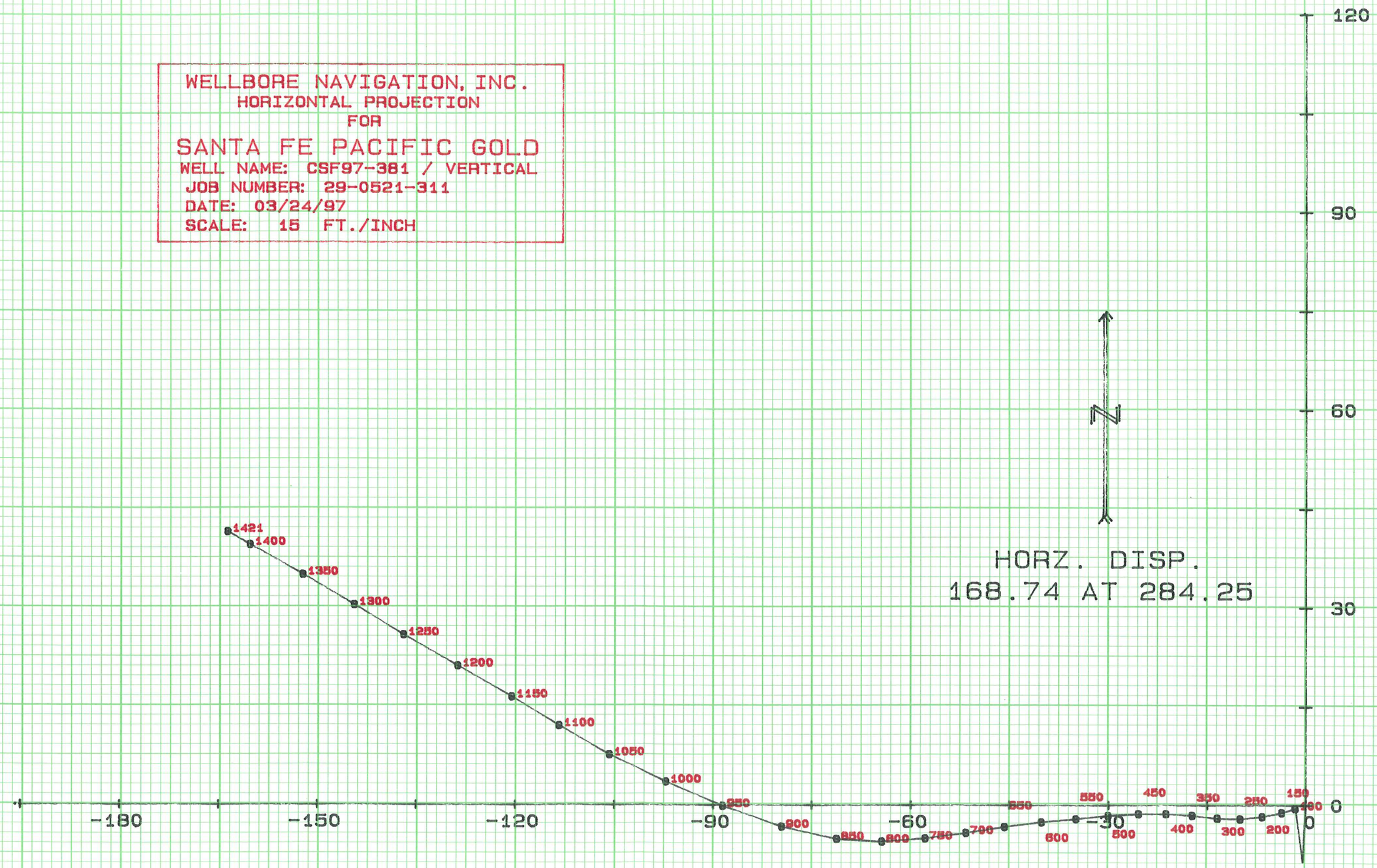
WELLBORE NAVIGATION, INC.
HORIZONTAL PROJECTION
FOR
SANTA FE PACIFIC GOLD
WELL NAME: CSF97-381 / VERTICAL
JOB NUMBER: 29-0521-311
DATE: 03/24/97
SCALE: 15 FT./INCH



CK PRINTING CENTER (801) 467-2841

WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* SANTA FE PACIFIC GOLD *
****

JOB NUMBER: 29-0521-311

WELL NAME: CSF97-381 / LOOKING @ 270.00

LOCATION: ROSE BUD

SURVEY DATE: 03/24/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: 165.50

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 000.00

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

COMMENTS: ** BOART LONGYEAR **
** MIKE WILLIAMS **
**** MATT EBERT ****

****
****
*** 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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WELLBORE NAVIGATION, INC.
WINNEMUCCA, NEVADA

JOB NUMBER: 29-0521-311 WELL NAME: CSF97-381 / LOOKING @ 270.00

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	-0.09	-0.445	-88.96	259.00	0.09 S	0.45 W	2.08	1.04	0.45	AT 259.00
100.0	99.98	-0.47	-1.593	-88.25	246.82	0.47 S	1.59 W	1.53	0.77	1.66	AT 253.44
150.0	149.94	-1.11	-3.614	-86.88	255.88	1.11 S	3.61 W	2.84	1.42	3.78	AT 252.98
200.0	199.84	-1.71	-6.591	-86.15	260.81	1.71 S	6.59 W	1.58	0.79	6.81	AT 255.48
250.0	249.73	-2.07	-9.946	-86.10	266.80	2.07 S	9.95 W	0.82	0.41	10.16	AT 258.25
300.0	299.61	-1.96	-13.415	-85.91	276.65	1.96 S	13.41 W	1.42	0.71	13.56	AT 261.70
350.0	349.46	-1.53	-17.209	-85.33	276.35	1.53 S	17.21 W	1.16	0.58	17.28	AT 264.93
400.0	399.30	-1.27	-21.188	-85.51	270.99	1.27 S	21.19 W	0.93	0.46	21.23	AT 266.58
450.0	449.13	-1.28	-25.371	-84.89	268.79	1.28 S	25.37 W	1.29	0.65	25.40	AT 267.11
500.0	498.91	-1.58	-29.998	-84.46	264.07	1.58 S	30.00 W	1.23	0.61	30.04	AT 266.99
550.0	548.67	-2.09	-34.864	-84.31	263.92	2.09 S	34.86 W	0.30	0.15	34.93	AT 266.57
600.0	598.39	-2.58	-40.097	-83.62	265.23	2.58 S	40.10 W	1.41	0.70	40.18	AT 266.32
650.0	648.08	-3.28	-45.678	-83.45	260.49	3.28 S	45.68 W	1.12	0.56	45.80	AT 265.89
700.0	697.73	-4.21	-51.512	-82.98	261.43	4.21 S	51.51 W	0.97	0.48	51.68	AT 265.33
750.0	747.33	-5.05	-57.730	-82.60	263.13	5.05 S	57.73 W	0.87	0.44	57.95	AT 265.00
800.0	796.89	-5.54	-64.318	-82.20	268.22	5.54 S	64.32 W	1.56	0.78	64.56	AT 265.08
850.0	846.42	-5.12	-71.179	-81.93	278.63	5.12 S	71.18 W	2.92	1.46	71.36	AT 265.89
900.0	895.67	-3.25	-79.517	-78.35	285.49	3.25 S	79.52 W	7.52	3.76	79.58	AT 267.66
950.0	944.76	-0.09	-88.461	-79.72	293.95	0.09 S	88.46 W	4.22	2.11	88.46	AT 269.94
1000.0	993.87	3.57	-97.088	-78.67	292.12	3.57 N	97.09 W	2.21	1.10	97.15	AT 272.11
1050.0	1042.94	7.69	-105.759	-79.16	298.79	7.69 N	105.76 W	2.74	1.37	106.04	AT 274.16
1100.0	1092.16	12.11	-113.339	-80.61	302.00	12.11 N	113.34 W	3.11	1.56	113.98	AT 276.10
1150.0	1141.46	16.49	-120.489	-80.09	300.92	16.49 N	120.49 W	1.10	0.55	121.61	AT 277.79
1200.0	1190.55	21.19	-128.676	-78.14	298.97	21.19 N	128.68 W	3.97	1.98	130.41	AT 279.35
1250.0	1239.66	25.88	-136.826	-80.17	301.14	25.88 N	136.83 W	4.14	2.07	139.25	AT 280.71
1300.0	1288.88	30.42	-144.351	-79.59	300.99	30.42 N	144.35 W	1.16	0.58	147.52	AT 281.90
1350.0	1338.05	35.01	-152.168	-79.52	299.84	35.01 N	152.17 W	0.44	0.22	156.14	AT 282.96
1400.0	1387.20	39.55	-160.177	-79.25	299.34	39.55 N	160.18 W	0.57	0.29	164.99	AT 283.87
1421.0	1407.83	41.53	-163.547	-79.31	301.42	41.53 N	163.55 W	1.86	0.39	168.74	AT 284.25

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*************************************************************
*                         ********                          *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                         ********                          *
*  1421.0 FEET EQUALS     168.74    FEET AT   284.25        *
*                         ********                          *
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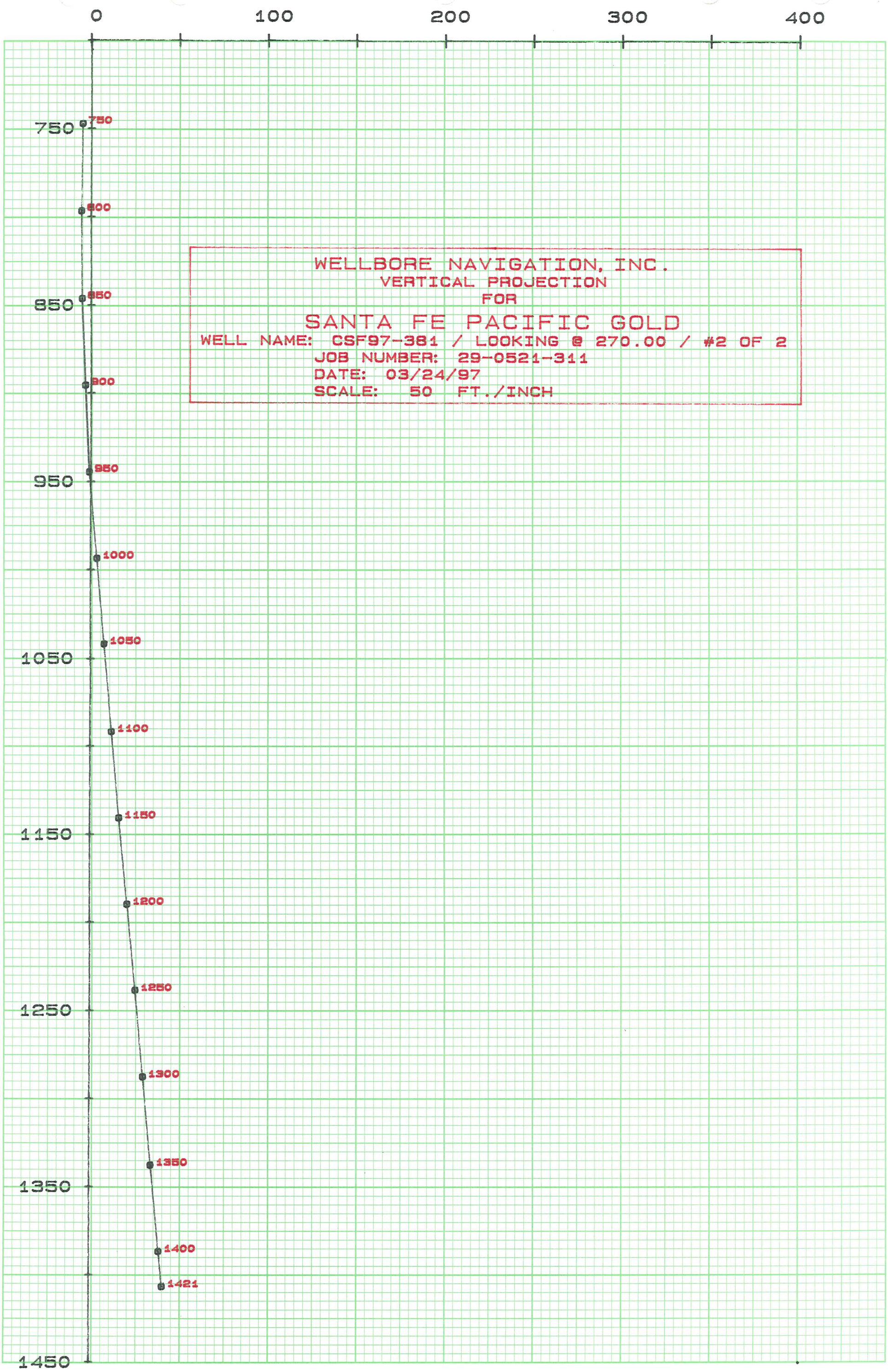
CK PRINTING CENTER (801) 467-2841



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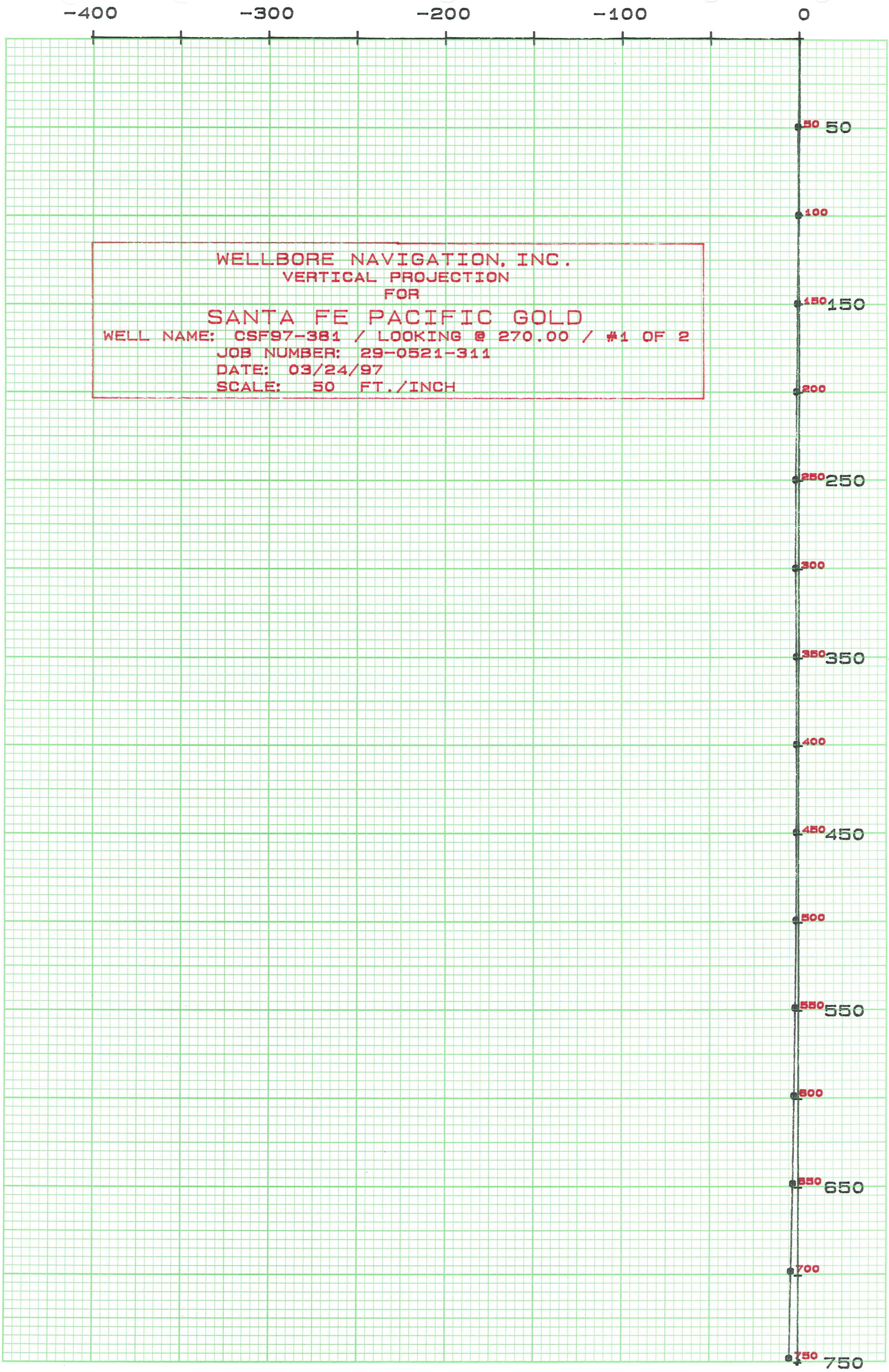

WELLBORE NAVIGATION,INC.
WINNEMUCCA, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* SANTA FE PACIFIC GOLD *
****

JOB NUMBER: 29-0521-311

WELL NAME: CSF97-381 / LOOKING @ 000.00

LOCATION: ROSE BUD

SURVEY DATE: 03/24/97

SURVEY ENGINEER: VERN REID

GYRO REFERENCE BEARING: 165.50

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 090.00

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

COMMENTS: ** BOART LONGYEAR **
** MIKE WILLIAMS **
**** MATT EBERT ****

****
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** 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: CSF97-381 / LOOKING @ 000.00

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	-0.45	0.087	-88.96	259.00	0.09 S	0.45 W	2.08	1.04	0.45	AT 259.00
100.0	99.98	-1.59	0.474	-88.25	246.82	0.47 S	1.59 W	1.53	0.77	1.66	AT 253.44
150.0	149.94	-3.61	1.106	-86.88	255.88	1.11 S	3.61 W	2.84	1.42	3.78	AT 252.98
200.0	199.84	-6.59	1.706	-86.15	260.81	1.71 S	6.59 W	1.58	0.79	6.81	AT 255.48
250.0	249.73	-9.95	2.069	-86.10	266.80	2.07 S	9.95 W	0.82	0.41	10.16	AT 258.25
300.0	299.61	-13.41	1.957	-85.91	276.65	1.96 S	13.41 W	1.42	0.71	13.56	AT 261.70
350.0	349.46	-17.21	1.526	-85.33	276.35	1.53 S	17.21 W	1.16	0.58	17.28	AT 264.93
400.0	399.30	-21.19	1.267	-85.51	270.99	1.27 S	21.19 W	0.93	0.46	21.23	AT 266.58
450.0	449.13	-25.37	1.280	-84.89	268.79	1.28 S	25.37 W	1.29	0.65	25.40	AT 267.11
500.0	498.91	-30.00	1.577	-84.46	264.07	1.58 S	30.00 W	1.23	0.61	30.04	AT 266.99
550.0	548.67	-34.86	2.089	-84.31	263.92	2.09 S	34.86 W	0.30	0.15	34.93	AT 266.57
600.0	598.39	-40.10	2.582	-83.62	265.23	2.58 S	40.10 W	1.41	0.70	40.18	AT 266.32
650.0	648.08	-45.68	3.284	-83.45	260.49	3.28 S	45.68 W	1.12	0.56	45.80	AT 265.89
700.0	697.73	-51.51	4.210	-82.98	261.43	4.21 S	51.51 W	0.97	0.48	51.68	AT 265.33
750.0	747.33	-57.73	5.051	-82.60	263.13	5.05 S	57.73 W	0.87	0.44	57.95	AT 265.00
800.0	796.89	-64.32	5.542	-82.20	268.22	5.54 S	64.32 W	1.56	0.78	64.56	AT 265.08
850.0	846.42	-71.18	5.121	-81.93	278.63	5.12 S	71.18 W	2.92	1.46	71.36	AT 265.89
900.0	895.67	-79.52	3.245	-78.35	285.49	3.25 S	79.52 W	7.52	3.76	79.58	AT 267.66
950.0	944.76	-88.46	0.086	-79.72	293.95	0.09 S	88.46 W	4.22	2.11	88.46	AT 269.94
1000.0	993.87	-97.09	-3.574	-78.67	292.12	3.57 N	97.09 W	2.21	1.10	97.15	AT 272.11
1050.0	1042.94	-105.76	-7.688	-79.16	298.79	7.69 N	105.76 W	2.74	1.37	106.04	AT 274.16
1100.0	1092.16	-113.34	-12.115	-80.61	302.00	12.11 N	113.34 W	3.11	1.56	113.98	AT 276.10
1150.0	1141.46	-120.49	-16.487	-80.09	300.92	16.49 N	120.49 W	1.10	0.55	121.61	AT 277.79
1200.0	1190.55	-128.68	-21.187	-78.14	298.97	21.19 N	128.68 W	3.97	1.98	130.41	AT 279.35
1250.0	1239.66	-136.83	-25.883	-80.17	301.14	25.88 N	136.83 W	4.14	2.07	139.25	AT 280.71
1300.0	1288.88	-144.35	-30.416	-79.59	300.99	30.42 N	144.35 W	1.16	0.58	147.52	AT 281.90
1350.0	1338.05	-152.17	-35.005	-79.52	299.84	35.01 N	152.17 W	0.44	0.22	156.14	AT 282.96
1400.0	1387.20	-160.18	-39.552	-79.25	299.34	39.55 N	160.18 W	0.57	0.29	164.99	AT 283.87
1421.0	1407.83	-163.55	-41.527	-79.31	301.42	41.53 N	163.55 W	1.86	0.39	168.74	AT 284.25

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*************************************************************
*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*  1421.0 FEET EQUALS   168.74   FEET AT  284.25            *
*                          ********                         *
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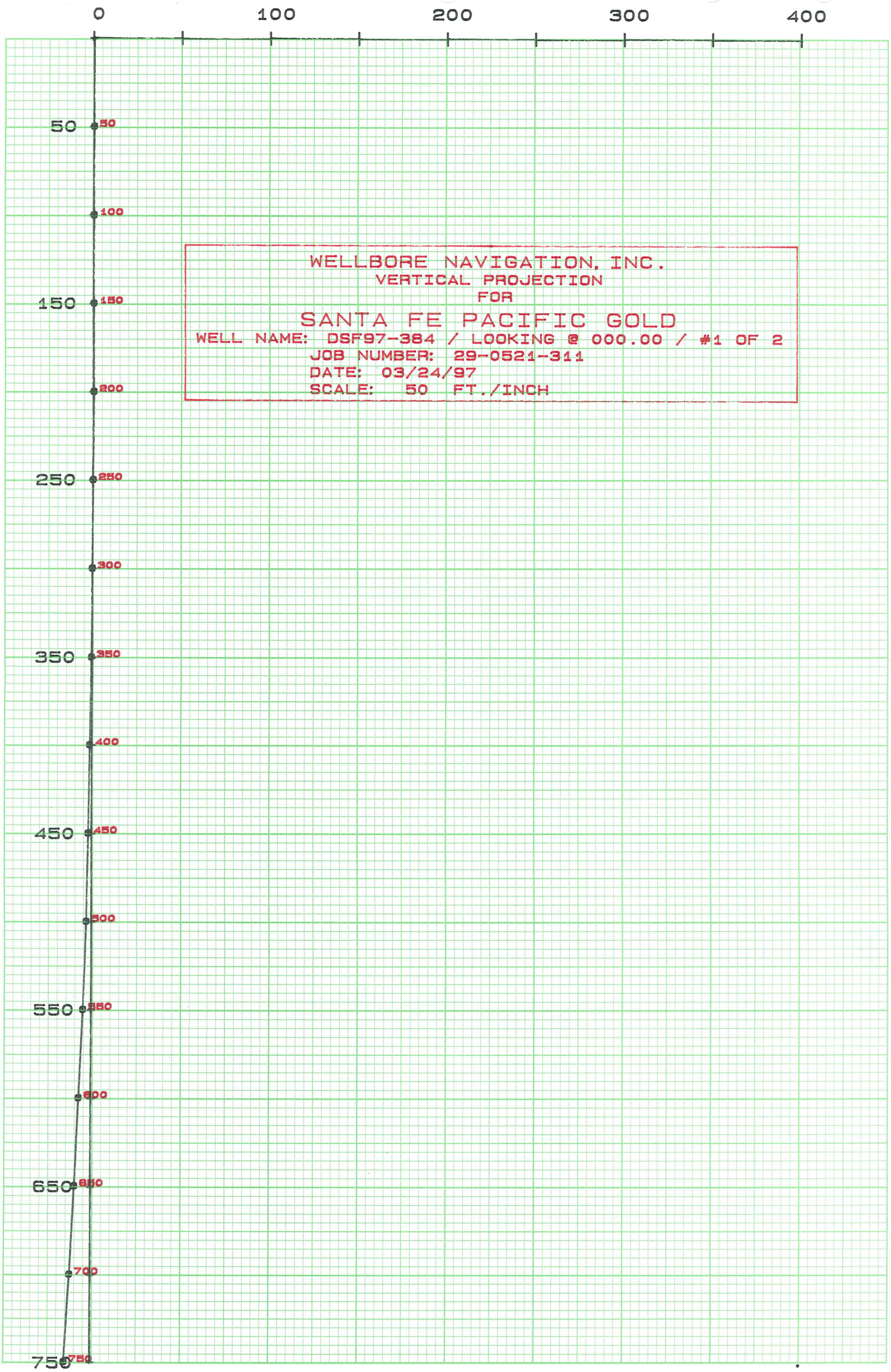
CK PRINTING CENTER (801) 467-2841



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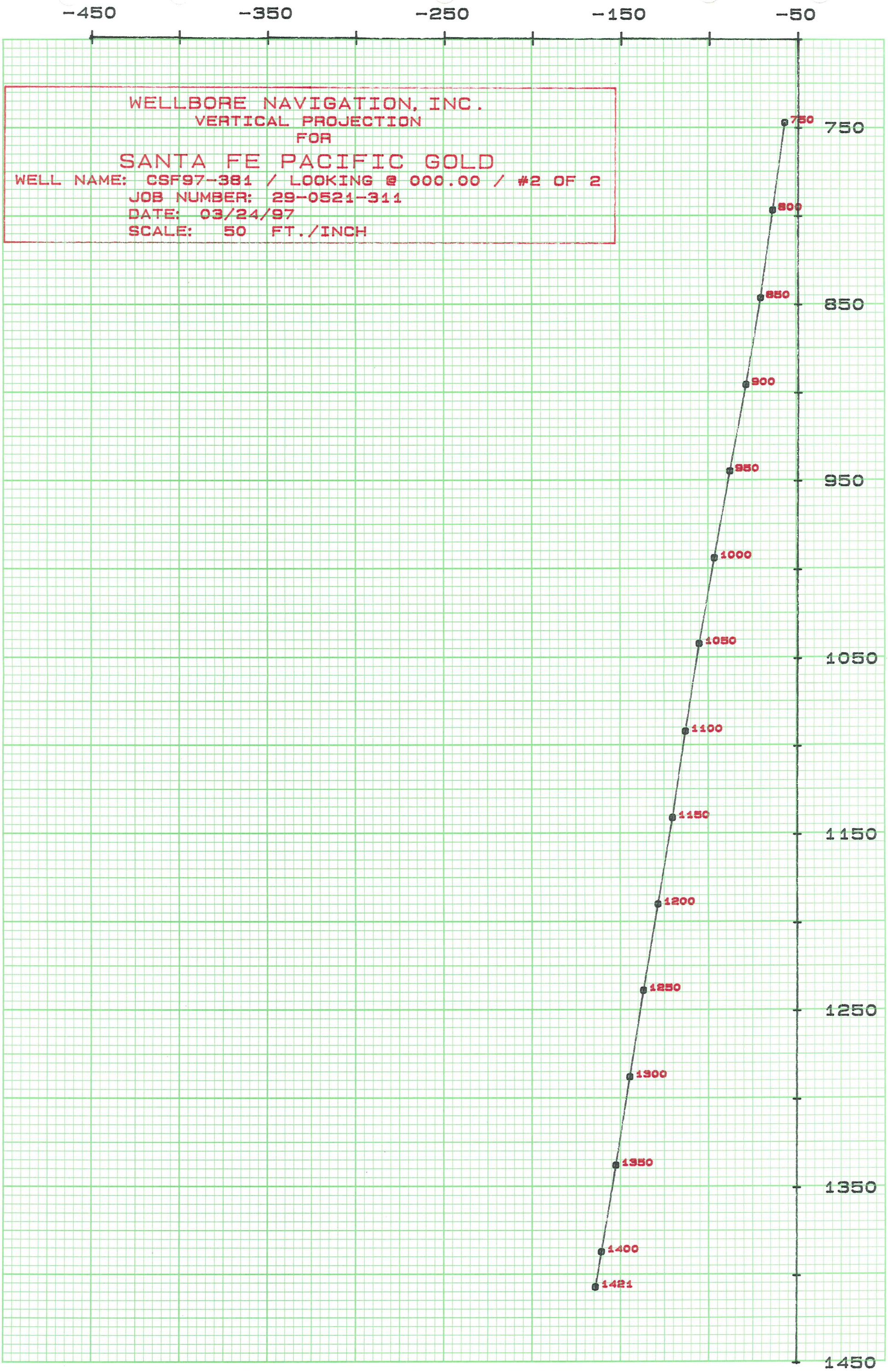


97-381

998' – 1482.1'

97-381 BOX NO 2
DEPTH 1007.4 - 1016.9

97-381 BOX NO 1
DEPTH 998 - 1007.4

97-381 BOX NO 4
DEPTH 1026 - 1035.2

97-381 BOX NO 3
DEPTH 1016.9 - 1026

97-381 BOX NO 6
DEPTH 1045. - 1054

97-381 BOX NO 5
DEPTH 1035.2 - 1045

97-381 BOX NO 8
DEPTH 1063 - 1072

97-381 BOX NO 7
DEPTH 1054. - 1063

97-381 BOX NO 10
DEPTH 1081.3 – 1090.6

97-381 BOX NO 9
DEPTH 1072 – 1081.3

97-381 BOX NO 12
DEPTH 1099.8 – 1107

97-381 BOX NO 11
DEPTH 1090.6 – 1099.8

97-381 BOX NO 14
DEPTH 1115.6 - 1125

97-381 BOX NO 13
DEPTH 1107 - 1116.6

97-381 BOX NO 16
DEPTH 1134 - 1142.3

97-381 BOX NO 15
DEPTH 1125 - 1134

97-381 BOX NO 18
DEPTH 1150.6 – 1159

97-381 BOX NO 17
DEPTH 1142.3 – 1150.6

97-381 BOX NO 20
DEPTH 1168 – 1176.3

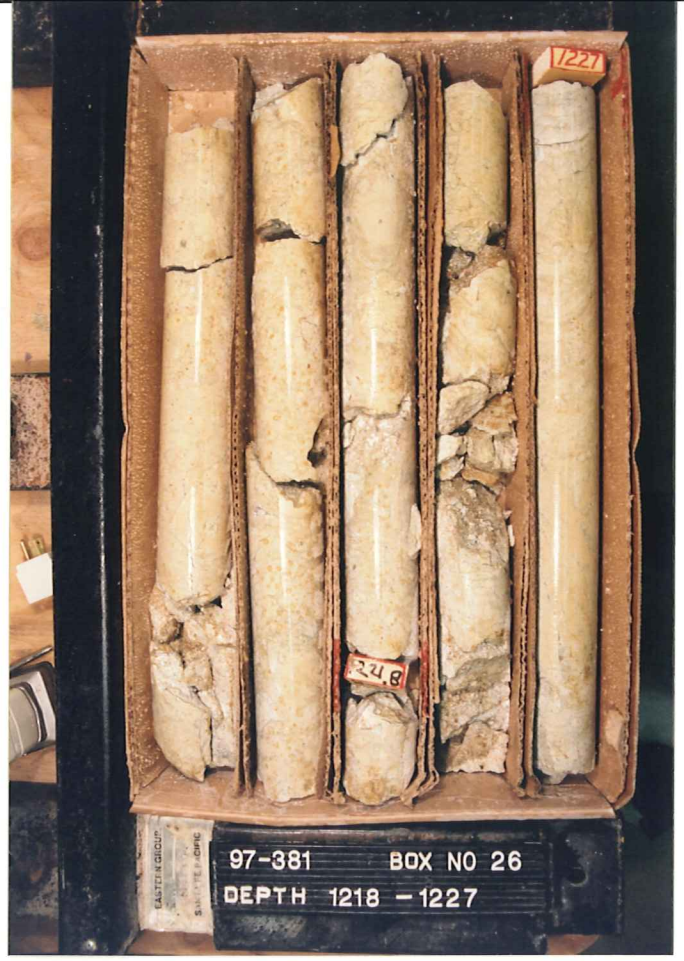
97-381 BOX NO 19
DEPTH 1159 – 1168

1185
1190
1191.1
97-381 BOX NO 22
DEPTH 1148 -1191.3

1180
1183.3
97-381 BOX NO 21
DEPTH 1176.3-1184

1202
1207
1204
97-381 BOX NO 24
DEPTH 1201 -1209

1195
1200
97-381 BOX NO 23
DEPTH 1191.3-1201


1227
1224.8
97-381 BOX NO 26
DEPTH 1218 - 1227

1211.5
1217
97-381 BOX NO 25
DEPTH 1209 - 1218

1237
1242.2
97-381 BOX NO 28

1232
97-381 BOX NO 27
DEPTH 1227 - 1236

1255
1262.6
1260
97-381 BOX NO 30
DEPTH 1253 -1263

1250
1245.5
1252.5
97-381 BOX NO 29
DEPTH 1245 -1253

1275
1280
1272.9
97-381 BOX NO 32
DEPTH 1272.5-1282

1265
1270
97-381 BOX NO 31
DEPTH 1263 -1272.5

1300
1293
97-381 BOX NO 34
DEPTH 1291 -1300

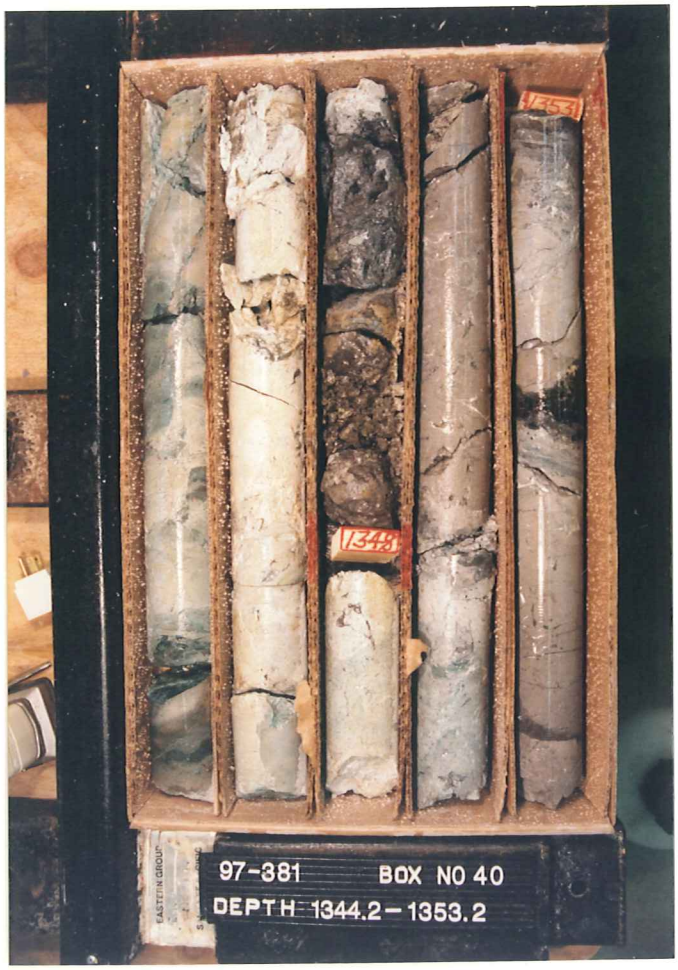
1285
1283
1290
97-381 BOX NO 33
DEPTH 1282 -1291

1313
1315
97-381 BOX NO 36
DEPTH 1309 -1317.5

1305
1303.6
97-381 BOX NO 35
DEPTH 1300 -1309

1330
1334
97-381 BOX NO 38
DEPTH 1326 -1335

1319
1324
1325
1320
97-381 BOX NO 37
DEPTH 1317.5 - 1326


1353
1348
97-381 BOX NO 40
DEPTH 1344.2 - 1353.2

1344.2
97-381 BOX NO 39
DEPTH 1335 - 1344.2

97-381 BOX NO 42
DEPTH 1362 -1371

97-381 BOX NO 41
DEPTH 1353.2-1362

97-381 BOX NO 44
DEPTH 1380 -1389

97-381 BOX NO 43
DEPTH 1371 -1380

97-381 BOX NO 46
DEPTH 1398.3 - 1407.5

97-381 BOX NO 45
DEPTH 1389 -1398.3

97-381 BOX NO 48
DEPTH 1415.1 - 1423.5

97-381 BOX NO 47
DEPTH 1407.5 - 1415.1

97-381 BOX NO 50
DEPTH 1432.5 - 1441.5

97-381 BOX NO 49
DEPTH 1423.5 - 1432.5

97-381 BOX NO 52
DEPTH 1448 - 1457

97-381 BOX NO 51
DEPTH 1441.5 - 1448

1472.1
1467
97-381 BOX NO 54
DEPTH 1466 - 1475

1482.1
97-381 BOX NO 53
DEPTH 1457 - 1466

1477
1482.1
97-381 BOX NO 55
DEPTH 1475 - 1482.1