DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ARGILLATION	DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style, wt%, mode)	MANGANESE OXIDE (style, wt%, mode)	GALENA-SPHALERITE (style, wt%, mode)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1090	100			?	40																		LIMESTONE - CONTINUED - SOLUTION ~ COLLAPSE BRECCIA SEE DESCRIPTION PAGE 27 CALCITE VEINING THROUGHOUT IN PLACES LIMESTONE IS MICRITIC IN PART					
1095					55																							
1100	100			?																								
1105					50																							
					50																							
					40																							
1110	100																											
1115				?	20																							
1120	100																											

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
	100			?																			LIMESTONE ~ CONTINUED {AD NAUSIEM} COLLAPSE BRECCIA: SEE DESCRIPTION PAGE 27					
1125					40																		CHLORITIZATION CEASES					
1130	100				40																							
1135				?																			MINOR ARGILLATION					
1140	100																											
1145					45																							
1150	100			?																								
1155					56																							

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1160	100			?	40																		LIMESTONE — CONTINUED AS BEFORE SEE GENERAL DESCRIPTION PAGE 27					
1165					40																							
1170	100			?																								
1175																												
1180	100			?	40																							
1185																												
1190	100			?																			BRECCIA CLAST SIZE MAX ≈ 6" AVE ≈ 2.5"-3.5"					

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DRILL HOLE: T-8

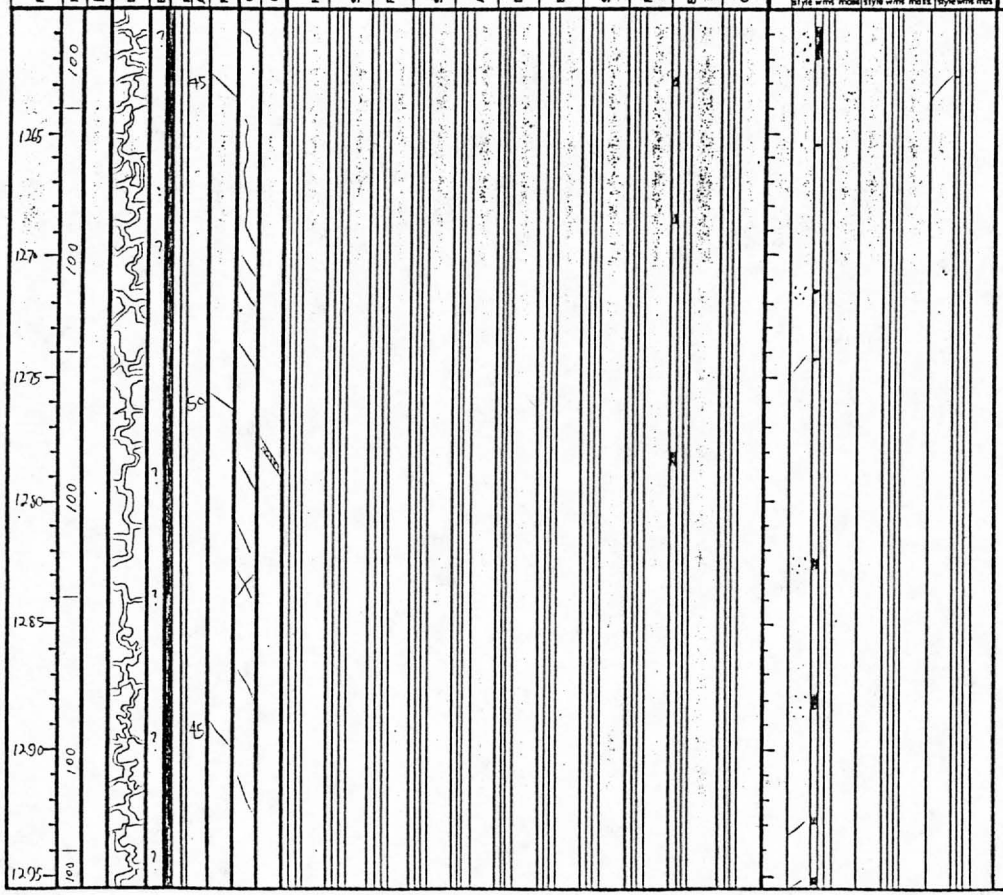
FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style, wms, mass)	MINERALIZATION: MANGANESE OXIDE (style, wms, mass)	GALENA + SPHALERITE (style, wms, mas)	DESCRIPTION	ASSAY DATA (page: 35): Au	Ag	Cu	Pb	Zn
1195	100			?	45																		LIMESTONE: – CONTINUED AS BEFORE; SEE PREVIOUS DESCRIPTIONS.					
1200	100			?	60																		– ALTERATION INCREASING DOWN SECTION.					
1205																												
1210	100																											
1215				?	55																							
1220	100																											
1225					35																							

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style, wms, mass)	MINERALIZATION: MANGANESE OXIDE (style, wms, mass)	MINERALIZATION: GALENA-SPHALERITE (style, wms, mas)	DESCRIPTION	ASSAY DATA (page: 36): Au	Ag	Cu	Pb	Zn
1230	100			?	30																		LIMESTONE - CONTINUED AS BEFORE; LIMESTONE BECOMING PINK IN COLOR. MINOR FE-PYRITE STARTS @ 1257'					
1235				?	50																							
1240	100																											
1245					35																							
1250	100			?																								
1255					40																							
1260	100																											

DRILL HOLE: T-8

FOOTAGE | RECOVERY | FORMATION | LITHOLOGY | BEDDING ANGLE | FRACTURES ANGLES | FAULTS, SHEARS, ETC. | CALCITE VEINING | QUARTZ VEINING | HORNFELS | SKARN | RECRYSTALLIZATION | ALTERATION: SILICIFACATION | ARGILLATION | DOLOMITIZATION | BLEACHING | SANDING | Fe OXIDE | EPIDOTE + CHLORITE | OTHER | MINERALIZATION: PYRITE (style wms mass) | MANGANESE OXIDE (style wms mass) | GALENA-SPHALERITE (style wms mas)



DESCRIPTION

LIMESTONE: AS BEFORE –
COLLAPSE SOLUTION

BLACKJACK
SPHALERITE (MARMATITE)

FE PYRITE THROUGHOUT
– TOTAL SULFIDES < 4%
PYRITE >> SPHALERITE

ASSAY DATA

Au	Ag	Cu	Pb	Zn

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style, wms, mass)	MINERALIZATION: MANGANESE OXIDE (style, wms, mass)	MINERALIZATION: GALENA-SPHALERITE (style, wms, mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1300	100			?	45																		LIMESTONE: CONTINUED AS BEFORE.					
1305				?	30																							
					45																							
1310	100				30																							
1315				?	40																							
					35																							
1320	100				50																							
1325					40																							
					45																							
	100			?	30																		AMBERJACK - GALENA VEINLETS					
133																												

ASSAY DATA page: 38

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFICATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mass)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
	100				20																		LIMESTONE - CONT.					
					20																		SOLUTION - COLLAPSE BRECCIA					
					60																		DISCONTINUES @ 1333'					
1335																							LS. BECOMING					
					45																							
1340	100																											
					0																							
					0																							
1345																												
					30																							
	100																						MINERALIZED SECTION.					
1350																							TRACE VESSUVIANITE, FeS2,					
					45																		MANGANESE, TRACE SPHALERITE					
1355																												
	100																											
					10																							
1360																												
	100				45																							
1365																												

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DRILL HOLE: 7-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
137	100			5	50		X																LIMESTONE: MARBLIZED IN PART, LT GREY TO WHITE IN COLOR, COARSELY REXTLZED; MINOR SULFIDES. FeS_2 > SPH. MnOx LOCALLY.					
137.5					40																							
138	100			5																								
138.5					70																							
139	100				55																							
139.5				5																								
140	100				55																							

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mass)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1400–1405	100		VOID	?	60, 65																		LIMESTONE – MASSIVE, LT GREY TO WHITE IN COLOR, MOD-COARSELY RECRYSTALIZED; LOCAL MnOx IN VEINLETS. LOCAL STYLOLITES. BEDDING BELOW 1405' BECOMES UNDISCERNABLE.					
1405–1410	100			?																								
1410–1415	100				45																							
1415–1420	100			?																								
1420–1425	100				50																							
1425–1430	100			?																								
1430–1435	100				65																							
1435–1440	100			?																								

ASSAY DATA

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	GALENA-SPHALERITE (style wms mass)	DESCRIPTION	ASSAY DATA (page: 42) Au	Ag	Cu	Pb	Zn
					35																		LIMESTONE - CONT. AS BEFORE SEE PREVIOUS DESCRIPTION					
1440	100			1	50																							
1445																												
1450	100			1	60																							
					25																							
1455																												
1460	100			1	40																							
1465																												
					45																							
1470	100			1																								

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFICATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mass)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1475	100			?	40																		LIMESTONE - CONT. AS BEFORE. -LOCALLY VUGGY.					
					20																		BEDDING @ 50° - BECOMES USABLE @ 1477					
1480	100			50																								
					70																							
1485					60																							
	100			50	35																							
1490					20																							
					35																							
					40																							
1495	100				40																							
1500				50																								
					45																							
1505	100																											

ASSAY DATA page: 43

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFICATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
1510	100		VOID	15	20																		LIMESTONE - CONT AS BEFORE. BEDDING UNDISCERNABLE BELOW CAVE @ 1511'					
1515	100			?	45																		SANDED ZONE 1509 - 1514' LS. IS PINK IN COLOR THROUGH SANDED ZONE.					
1520	100			?																								
1525					20																							
1530	100			?																								
1535					35																							
1540	100			?	35																							

ASSAY DATA page: 49

DRILL HOLE: T-5

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
	100			15	30																		LIMESTONE: CONT. AS BEFORE					
1545	100																											
					45																							
1550	100																						SILTY LIMESTONE ~ ALT. RED & GREY BANDED, FINELY BEDDED.					
					40																							
1555				35																								
	100				40																		SILTSTONE - REDDISH GREY IN COLOR, FINELY BEDDED TO LAMINATED.					
1560																												
																							LIMESTONE - AS ABOVE.					
1565					45																							
	100																											
1570				20																								
					40																							
1575	100																											

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1580	100	HORQUILLA		70	50																		LIMESTONE — AS ABOVE. Py>>Cpy					
					45																		LOCAL STYLOLITES.					
1585	100				60																							
					50																							
1590				70																								
					45																							
1595	100																						VERY VUGGY AT FRACTURED ZONE.					
1600					70																		CHLORITE IS ACCICULAR IN TEXTURE.					
1605	100			70	45																							
1610					45																							

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wrns mass)	MINERALIZATION: MANGANESE OXIDE (style wrns mass)	MINERALIZATION: GALENA-SPHALERITE (style wrns mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1615	100	MOXBULLA		10	45																		LIMESTONE + CONT. AS BEFORE - LOCALLY CHLORITIC - LOCALLY DOLOMITIC IN PART. ROCK IS GREEN IN COLOR WHERE CHLORITIC WHITE TO WHITE-GREY ELSEWHERE.					
1620	100				60																							
1625				10																								
1630	100				50																							
1635																												
1640	100			7	45																		GALENA + SPHALERITE PYRITE + CHALCO PYRITE					
1645	100			12																			SOLUTION BRECCIA IN PART "SKARN" TYPE ALTERATION STARTS @ 1643' - SEE NEXT PAGE -					

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFICATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1650	100	MORONCEN			50																		LIMESTONE: CONT. SKARNED ~ IN PART, LS IS COARSELY RECRYSTALLIZED, WHITE ~ GREY GREEN IN COLOR, MINOR EPIDOTE/CHLORITE; POSSIBLY GARNETITIC { GROSSULARITE ~ GREEN GARNET }; V. MINOR MnOx PINK COLORATION LOCALLY.					
1655				50																			- MINERALIZATION: DISSEMINATED ORE MINERALS: SPHALERITE ≥ CHALCOPYRITE > GALENA MAX TOTAL SULFIDES; 42% AVE ≈ 20% FOR 3' 10% FOR 10 FEET.					
1660	100				70																		* NO GAUNGE MINERALS IN THIS ZONE					
1665				50	65																		← SKARNING GIVES ROCK A MOTTLED TEXTURE.					
1670	100				60																							
1675				50	45																							
1680	100			50																			HEALED BRECCIA { FAULT BRECCIA POLY? LITHIC }					

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mass)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1685	100	HORNFELS		?	25																		LIMESTONE: CONT. SKARNING REDUCED IN PART; NUMEROUS HIGH ANGLE FAULTS, FAULT BRECCIA HEALED BY CALCITE CEMENT; BRECCIA "APPEARS" TO BE POLYLITHIC, ROCK FRAGMENTS ARE LIMESTONE, BUT HAVE UNDERGONE VARIOUS STYLES OF ALTERATION, VARIOUS COLOR TYPES. LIMESTONE IS RECRYST. MINOR TO MOD COARSE; CROSS CUT BY NUMEROUS CALCITE VEINS.					
1690	100			?	60																							
1695					45																							
1700	100			?	40																							
1705					35																		"SKARN" INCREASING AGAIN, MINOR EPIDOTE W/ CHLORITE; ROCK BECOMING APPLE-GREEN IN COLOR.					
1710	100			?	20 60 20																							
1715				?	20 60																		LATE STAGE QUARTZ W/CALCITE - QUARTZ HAS BEEN LIGHTLY ETCHED					

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style, wms, mass)	MINERALIZATION: MANGANESE OXIDE (style, wms, mass)	MINERALIZATION: GALENA-SPHALERITE (style, wms, mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1720	100	MOREWICA		? 70	70																		LIMESTONE - CONT. AS BEFORE. SEE PAGE 49 FOR DESCRIPTION.					
1725				70	45																							
1730	100			?	70																		HEALED FAULT BRECCIA HIGH ANGLE ≈ 20°-0° 1730.5' - 1747'					
1735				?	0																							
1740	100			5	45																							
1745					45																							
1750	100				45																		SILTSTONE - INTERBED, FINELY BEDDED TO LAMINATED.					

DRILL HOLE: T-8

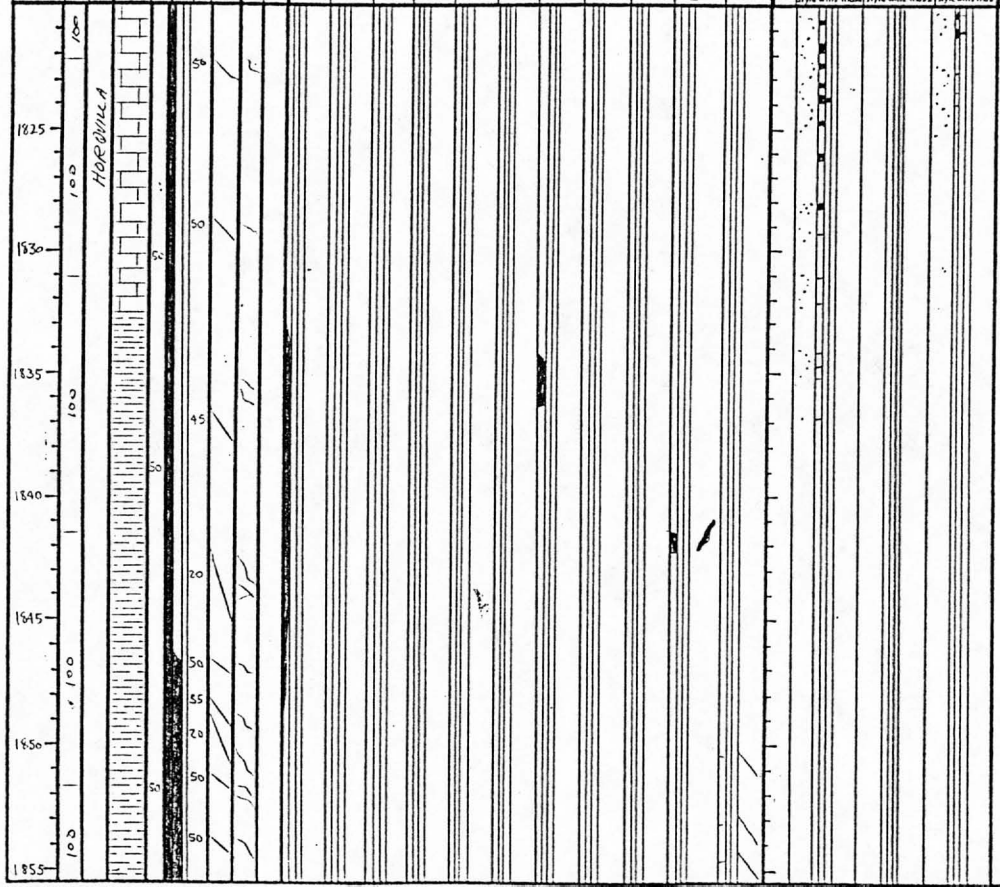
FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style, wms, mass)	MINERALIZATION: MANGANESE OXIDE (style, wms, mass)	MINERALIZATION: GALENA-SPHALERITE (style, wms, mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1755	100	MARMELLA		50	25																		LIMESTONE - UNALTERED; LT GREY - WHITE IN COLOR; NUMEROUS STYLOLITES; MILDLY RECRYSTALIZED IN PLACES; CROSSCUT BY NUMEROUS CALCITE VEINS.					
1760	100			35																								
1765				35	60																							
1770	100																											
1775				35	70																							
1780	100				75																							
1785	100			30	70																							

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
	100	HORQUILLA			45																		SILTSTONE - GREY IN COLOR, FINE GRAINED, FINELY BEDDED TO LAMINATED.					
1790				50	45																		LIMESTONE - AS PREVIOUS DESCRIPTION. PAGE. 51					
1795	100																											
1800				7	50																		SILTSTONE - PARTLY BRECCIATED, CALCITE HEALED, LOWER PART UNBROKEN.					
1805	100																											
1810				1																								
1815				50	45																		LIMESTONE - AS PREVIOUS DESCRIPTION. PAGE 51					
	100																						Cpy ≈ SPH > GALENA 2 ~ 5 % TOTAL SULFIDES					
1820					45																							

ASSAY DATA

DRILL HOLE: T-8



DESCRIPTION

LIMESTONE – CONT.

Cpy ≈ Sph ≈ GALENA > Fe PYRITE.

2 ~ 3% TOTAL SULFIDES.

(5% LOCALLY)

SILTSTONE – DARK BROWN TO DARK GREY IN COLOR; V. FINE GRAINED; BEDDING @ 50° HORNELSED IN UPPER PART OF SUBUNIT. CROSS CUT BY CALCITE AND LOCAL VEINLETS INFILLED W/ GYPSUM.

ASSAY DATA

page: 53

Au	Ag	Cu	Pb	Zn

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER GYPSUM	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
1860	100	HORQUILLA		50	45, 20, 50, 55, 50																		SILTSTONE - AS PREVIOUS DESCRIPTION, HORNFELSED 1859' - 1872'					
1865	100				45, 50																							
1870				50	45, 20, 20																							
1875	100			50	45, 40, 50																							
1880					20																							
1885	100				45, 50																							
1890																												

page: 54

DRILL HOLE: T-9

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style, wms, mass)	MINERALIZATION: MANGANESE OXIDE (style, wms, mass)	MINERALIZATION: GALENA-SPHALERITE (style, wms, mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
1895	100	HORNFELS		50	35																		SILTSTONE – CONT. AS ABOVE: VERY FINE GRAINED, FINELY BEDDED, DARK BROWN TO DARK GREY IN COLOR; VERY LIGHTLY HORNFELSED; NUMEROUS CROSS-CUTTING FRACTURES, FILLED MOSTLY BY CALCITE, LOCALLY FILLED BY GYPSUM – SOMETIMES CLAY (VERY MINOR). TRACE DIAGENETIC PYRITE.					
					40																							
					90																							
1900	100			50	50																							
					45																							
1905	100				20																							
					45																							
					40																							
1910	100			50	40																							
					50																							
					45																							
1915	100				50																							
					50																							
					20																							
1920	100			50	25																							
					45																							
1925	100				40																							

ASSAY DATA page: 55

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
																							SILTSTONE - CONT. SEE PREVIOUS DESCRIPTION PAGE 55					
1930	100	MORGUILLA		55	50																							
					45																							
					20																							
1935	100			55	70																							
1940					35																							
					40																							
1945	100			55	45																		← CONTACT ESCABROSA - - - 1948' - -					
1950		ESCABROSA		55	60																		LIMESTONE - LT GREY IN COLOR, MASSIVE, LOCALLY BEDDED, BECOMING "SKARN-LIKE" DOWN SECTION, ARGILLIZED IN PART, LOCALLY EPIDOTE - CHLORITE ALTERED; MINOR SULFIDES LOCALLY.					
					45																							
1955	100			55	70																							
					70																							
1960				55	20																							

ASSAY DATA page: 56

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style, wms, mass)	MINERALIZATION: MANGANESE OXIDE (style, wms, mass)	MINERALIZATION: GALENA-SPHALERITE (style, wms, mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
1965	100	ESTABROOK			60																		LIMESTONE - CONT. AS ABOVE.					
1970	100				40																							
					70																							
1975					45																		DOLOMITIC LIMESTONE - DOLOSTONE - MASSIVE, LT GREY TO DARK GREY IN COLOR; ARGILLIZED IN PART, (WHITE IN COLOR); CHLORITIZED ~ W/ MINOR EPIDOTE LOCALLY; BEDDING @ ≈60°; NUMEROUS STYLOLITES.					
					70																							
1980	100																											
					70																							
1985																												
1990	100				60																							
1995	100				55																							

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ARGILLATION	DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MANGANESE OXIDE (style wms mass)	GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA (page: 58) Au	Ag	Cu	Pb	Zn
2000	100	ESCABROSA		8	60																		DOLOSTONE - CONT. AS BEFORE					
				7																								
2005					60																							
				7																								
2010	100				55																							
				7	60																							
2015																												
					70																							
2020	100				50																							
				7																								
2025					60																							
	100			7																								
2030					65																							

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
	100	ESCUDRON		?	60	/	/																DOLOSTONE - SEE DESCRIPTION PAGE 57					
2035				?	60	/																						
	100				60	/	/																					
2040																												
					45	/																						
2045				?	50	/																						
2050	100				65	/																						
2055				?																								
					70	/																						
2060	100																											
				?	60	/	/																					
2065	100				20	/	90°																FAULT @ 20° GOUGE >> BRECCIA					

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
	100	EUCAMBRIAN		?	60																		DOLOSTONE - CONT. AS BEFORE					
																							SILTSTONE - CALCITIC IN PART, DARK GREY IN COLOR, BEDDING UNDISCERNABLE. CROSS CUT BY NUMEROUS CALCITE VEINS.					
1070	100				40																							
	100			?	45																		DOLOSTONE - AS ABOVE.					
1075																												
2080	100				60																							
				?																								
2085																							MINOR PYRITE.					
	100				60																							
2090				60	40																							
2095	100			6																								
2100																							DOLOSTONE BECOMING ARGILLIZED					

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
2105	100	ESCABROSA			50																		DOLOSTONE - CONT AS BEFORE.					
2110					70																							
2115	100																											
2120	100				40																							
2125																							DOLOMITE DECREASING, BECOMING MORE RECRYSTALIZED LS. DOWN SECTION.					
2130	100				45																							
2135																												

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFICATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER CALCANTHITE	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
2140	100	ESCABROSA		?	45																		DOLOMITIC LIMESTONE: MUCH THE SAME AS BEFORE; MORE COARSELY RECRYSTALLIZED.					
2145				?	45																		LIMESTONE: WHITE ~ LT GREY IN COLOR, MOD. RECRYSTALLIZED, MINOR CHLORITIZATION, LOCAL "EPIDOTE BLOOMS", LOCAL VUGS OF DOLOMITE RHOMBS.					
2150	100				50																		MARBLE ZONE {TOTAL THICKNESS ≈ 1 FOOT}					
					50																		VERY SHARP CONTACT					
2155																							- MINERALIZATION STARTS @ 1253.9'					
																							- ALT. & SANDED, SPHALERITE ≈ GALENA > PYRITE ≈ CHALCOPYRITE, 1260 TRACE CALCANTHITE					
				?																			1263.9 ≈ 9% CALCANTHITE. UNIDENTIFIED GREEN SILICATE THROUGHOUT {Pyromorphite??} TRACE WULFENITE THROUGHOUT					
2160	100				40																		2159 {25% TOT. SULFIDES, GALENA > SPH. >> PYR.					
																							2159.7}					
2165																							2159.7' 2155.7' } 15% " " GALENA ≈ SPH. >> PYR.					
					40																		2155.7 - 2156.7 2% TOTAL SULFIDES " "					
	100			?																			2156.7 - 2159.7 5% TOTAL SULFIDES " "					
																							2159.7 - 2164 3% TOT. SUL 99% PYRITE					
2170																							2164 - 2167.5 30% TOTAL SUL. 80% GALENA 15% SPH. 5% CPY.					

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFICATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mass)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
2175	100	ESCABROSA																					LIMESTONE – AS BEFORE – COMPLETE SERIES GOING FROM CHALCOPYRITE TO CHALCOCITE – HIGH RELIEF LIMONITE. 25% TOTAL SULFIDES 65% CHALCOPYRITE 30% CHALCOCITE, 5% FE-PYRITE, TRACE COVALITE – BORNITE.					
2180	100				70																		¥ – GREEN COLORATION MAY BE CERARGYRITE (???) AgCl DODECAHEDRON CRYSTAL – ISOMETRIC SYS.					
2185																							RHYOLITE DIKE @ 2179' TO 2199'. FELSIC TEXTURE; MOD. GRAINED QUARTZ EYES, BIOTITE BOOKS, FELSPAR FLOODING THROUGH OUT. – NOT ALTERED: (IE NOT ARGILLIZED)					
2190	100																											
2195																												
2200	100				70																		GALENA = SPH > CPY > PY {20% TOT. SULFIDES}					
2205	100		VOID																				FLUID % SOLID CALCITE – DOLOMITIC IN PART (PROT) REACTS STRONGLY TO HCL BUT HAS CURVED CRYSTAL FACES. (IT LOOK LIKE "FLOWER GARDEN GYPSUM"					

DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER MASS-CALCITE	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
																							LIMESTONE – AS BEFORE.					
2210	100	SSCAGROSA		?	68																		DISSEM. GALENA ≈ SPH. {25%} Fe ≈ Cu PYRITE					
2215	100			?	60																							
2220	0		VOID																									
2225				?																			{10~18%} Fe ≈ Cu PYRITE					
2230	100				60																							
2235				?	30																							
2240	100			?	25																							

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA: Au	Ag	Cu	Pb	Zn
2245	100	ESCANABA			20																		LIMESTONE — MASSIVE, WHITE IN COLOR, MARBLIZED, COARSELY RECRYSTALLIZED, LOCAL STYLOLITES NO MINERALIZATION					
2250	100				30																							
2255																												
2260	100				30																							
2265					60																							
2270	100				70																							
2275	100																											

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DRILL HOLE: T-8

FOOTAGE	RECOVERY	FORMATION	LITHOLOGY	BEDDING ANGLE	FRACTURES ANGLES	FAULTS, SHEARS, ETC.	CALCITE VEINING	QUARTZ VEINING	HORNFELS	SKARN	RECRYSTALLIZATION	ALTERATION: SILICIFACATION	ALTERATION: ARGILLATION	ALTERATION: DOLOMITIZATION	BLEACHING	SANDING	Fe OXIDE	EPIDOTE + CHLORITE	OTHER	MINERALIZATION: PYRITE (style wms mass)	MINERALIZATION: MANGANESE OXIDE (style wms mass)	MINERALIZATION: GALENA-SPHALERITE (style wms mas)	DESCRIPTION	ASSAY DATA Au	Ag	Cu	Pb	Zn
																							LIMESTONE — CONT. AS BEFORE.					
		ESCACHEDSA																										
					45																							
2280	100																						No MINERALIZATION					
2285					80																							
2290	100																											
					75																							
2295																												
	100				80																							
2300																							T.D. @ 2300' 8/7/89 2:00pm					

page: 66

REPORTS FEB., 1990

#1

Santa Fe Pacific Mining, Inc.

6200 Uptown Blvd. N.E., Suite 400
Box 27019
Albuquerque, New Mexico 87125
505/881-3050

September 17, 1990

Mr. La Verne Baxter, President
Tombstone Development Company
P. O. Box 1445
Grand Island, Nebraska 68801

RE: Tombstone Project
Cochise County, Arizona
SFPM File 3-033-0001

Dear La Verne:

In accordance with Section 24 of that certain Mining Lease by and between Tombstone Development Company and Santa Fe Pacific Mining, Inc., dated February 11, 1988, Santa Fe is planning to begin drilling on those claims as shown on the attached plat within the next ten days. Please advise if Tombstone Development Company has any objections to Santa Fe's proposed work program.

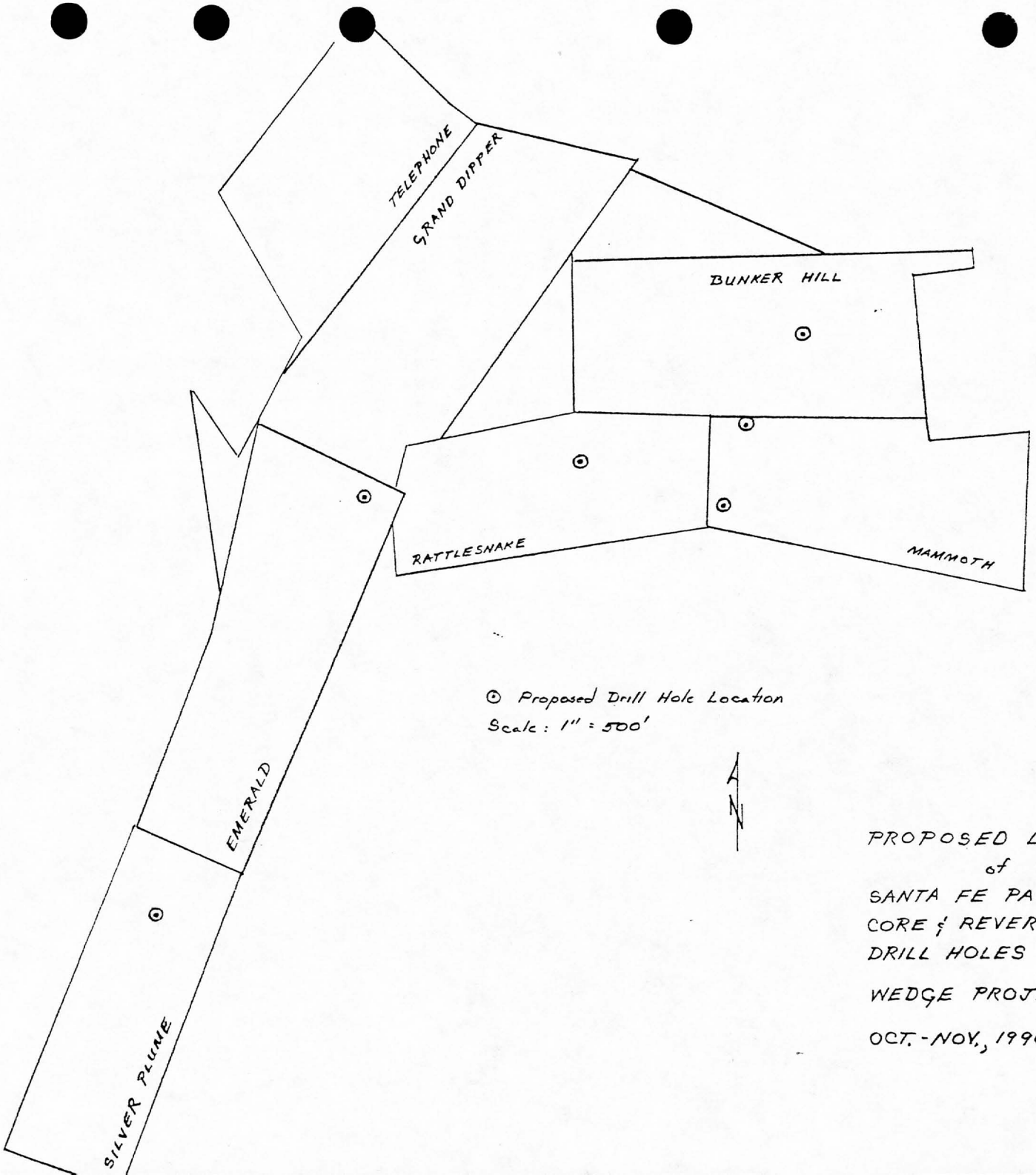
Very truly yours,

Dennis Cole
Manager - Land

DVC:efo

Attachment

cc: L. L. Carpenter



PROPOSED LOCATIONS
of
SANTA FE PACIFIC MINING
CORE & REVERSE CIRCULATION
DRILL HOLES

WEDGE PROJECT - TOMBSTONE, AZ

OCT.-NOV., 1990

REPORTS AUG. 1990

Santa Fe Pacific Mining, Inc.

6200 Uptown Blvd. N.E., Suite 400
Box 27019
Albuquerque, New Mexico 87125
505/881-3050

August 6, 1990

Mr. La Verne Baxter, President
Tombstone Development Company
P. O. Box 1445
Grand Island, Nebraska 68801

RE: Tombstone Project
Cochise County, Arizona
SFPM File 3-033-0001

Dear La Verne:

Attached in accordance with the terms of that Mining Lease between Tombstone Development Company and Santa Fe Pacific Mining is the required semi-annual report covering Santa Fe's work during the period of February 11, 1990 through August 11, 1990.

If you or any of the other board members have any questions, please feel free to call either myself or Mr. Duncan Riesmeyer of this office.

Very truly yours,

Dennis Cole
Manager - Land

DVC:efo

Attachment

cc: W. D. Riesmeyer

SEMI-ANNUAL REPORT TO TOMBSTONE DEVELOPMENT COMPANY ON THE TOMBSTONE PROJECT, COCHISE COUNTY, ARIZONA AUGUST 11, 1990

General. This report is submitted pursuant to the provisions of the lease between Tombstone Development Company and Santa Fe Pacific Mining, Inc. The data presented is current as of July 27, 1990. Assay results for samples collected during the report period, but not yet received, will be forwarded as soon as possible.

Reclamation. As agreed earlier, Santa Fe Pacific Mining has undertaken a program to fill or fence existing mine shafts and adits, prospect pits, exploration trenches, etc., on the leased property. A comprehensive inventory of such features, along with reclamation cost estimates has been completed at a direct cost to Santa Fe of approximately $6,000.00. To date, $28,680.00 has been spent fencing those shafts and adits which could not practically be filled or which Tombstone Development directed to be left open for future exploration. A small number of mine workings have been filled, but it is anticipated that the major shaft filling program will begin August 1st. An estimated $8,000.00 will be expended on cat work by August 11th, with the program extending well into the next report period.

Geologic Mapping and Sampling. In June, a geologic mapping and sampling program was begun in an area south of the PBR open pit in order to better define a gold-silver anomaly discovered two years ago during a regional reconnaissance project. The present effort, which is on-going, has enlarged the area of the original anomaly and has resulted in a better understanding of the structural controls of CRD mineralization in the area. It is anticipated that additional mapping and outcrop sampling will define several diamond drilling targets.

The accompanying map, approximately centered on the Bunker Hill patent, shows a Paleozoic carbonate section, ranging in age from Cambrian to Pennsylvanian, to lie southeast of a thick Cretaceous Bisbee section, separated, in a general way, by a northeast-trending splay of the Oregon-Prompter fault. The Paleozoic section, in addition, has been broken by a complex system of north-, northeast-, and northwest-trending high angle faults, while the Bisbee section is dominated by only northwest- and northeast-trending faults.

Approximately 100 geochemical samples have been collected in the project area; the location of those collected on TDC properties are shown on the accompanying map. Corresponding assay results are shown on the attached lab sheets. These samples are primarily from mine dumps; an additional sampling program is underway to collect altered outcrop samples as well as soil samples in covered areas to more closely define the mineralized areas.

Assay results show a very strong gold-silver trend coincident with the Oregon-Prompter fault, especially in the area of the Bunker Hill patent. A similar, sub-parallel trend is also evident on the Rattle Snake and Mammoth claims. A weaker anomaly is apparent in the Big and Little Comet area, coincident with a north-trending system of faults and dikes.

Results of additional outcrop and soil sampling, which will be concentrated in the Bunker Hill, Rattle Snake, and Mammoth areas, will be forwarded when they become available. Upon completion of the sampling and mapping program, results will be compiled in order to select the most promising areas for drill exploration.

Drilling. A second attempt is underway to drill test the so-called Benton-Albert breccia pipe on the Empire claim. Earlier underground mapping and sampling showed the "pipe" to host potentially economic amounts of gold and silver. CRD mineralization immediately adjacent to the "pipe" was also shown to be of potentially economic grade. DDH T-5, drilled in 1988 failed to intersect the target approximately 1000 feet below the surface.

Difficulty was experienced gaining access to the Empire patent drill site. After preparing the drill site and sump, Santa Fe was locked out of the property by representatives of PBR Minerals (Dustin Escapule Sr). After repeated attempts, over the period of approximately a week, a face to face meeting with Escapule finally resulted in Santa Fe being able to place its own lock on the gate, and the drill rig being allowed to move on the property.

Two angle reserve circulation drill holes have since been drilled from the site shown on the attached location map; a third and final hole from the same site is in progress. All holes were laid out to intersect the breccia "pipe" below 4100 feet MSL. RC T-7 was drilled to 420 feet at -70°. The hole was abandoned prior to reaching the target depth because of rig settling, resulting in an unacceptable hole angle. RC T-9 was drilled to 545 feet at -75° but was abandoned because of

a lack of sample return from 285 feet to TD due to mine workings and highly broken ground. The final hole, RC T-10 is presently being drilled at a -83° angle.

Those samples which have been recovered from the drill holes are presently being stored pending resolution of the question of which party is responsible for assay and who is entitled to the assay results. Should Santa Fe Pacific ultimately assay the chip samples, a copy of the results will be promptly forwarded to Tombstone Development Company.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 253
July 5, 1990
TW-001 TO TW-027

SANTA FE PACIFIC MINING INC.
Attn: Mr. Duncan Reismeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 27 Rock Chip Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (oz/t)	Ag* (oz/t)	Cu (%)	Pb (%)	Zn (%)
1	TW-001	<.002	<.01	<.01	<.01	<.01
2	TW-002	<.002	<.01	<.01	.01	<.01
3	TW-003	<.002	<.01	<.01	.01	<.01
4	TW-004	.006	8.97	1.08	2.06	6.35
5	TW-005	.012	10.20	.96	2.50	11.40
6	TW-006	<.002	.12	.03	.07	.14
7	TW-007	.006	10.00	.41	1.36	1.15
8	TW-008	.002	9.28	.10	.24	1.96
9	TW-009	.006	10.55	.28	1.31	.78
10	TW-010	.008	3.61	.19	1.13	1.60
11	TW-011	.012	2.94	.17	2.03	.72
12	TW-012	<.002	.28	.01	.15	.38
13	TW-013	<.002	<.01	<.01	.02	.01
14	TW-014	.026	5.44	.76	2.41	2.54
15	TW-015	<.002	.04	<.01	.02	.03
16	TW-016	.004	62.16	2.11	1.09	1.62
17	TW-017	<.002	.16	<.01	.01	.06
18	TW-018	.016	18.22	2.30	5.20	1.46
19	TW-019	.065	12.35	2.90	5.60	4.40
20	TW-020	.002	4.24	.21	.85	.95

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 253
July 5, 1990

ITEM	SAMPLE NO.	FIRE ASSAY Au* (oz/t)	Ag* (oz/t)	Cu (%)	Pb (%)	Zn (%)
21	TW-021	.004	10.48	.60	.95	1.59
22	TW-022	<.002	.30	.01	.02	.04
23	TW-023	.004	2.87	.17	.47	1.07
24	TW-024	.010	3.78	.26	2.35	9.20
25	TW-025	.006	15.00	.73	1.12	3.10
26	TW-026	.034	12.78	.51	1.22	3.65
27	TW-027	.026	15.52	.49	1.18	3.55

*NOTE: Method of analysis by combination fire assay and atomic absorption.

cc: Mr. Keith Eagan
56 Marindale
Logan, UT 84321

7/6/90

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 256
July 12, 1990
TW-0028 TO TW-0044

SANTA FE PACIFIC MINING INC.
Attn: Mr. Duncan Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 17 Rock Chip Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (%)	Pb (%)	Zn (%)
1	TW-0028	.020	14.54	.19	2.84	3.65
2	TW-0029	.030	6.16	.21	4.20	3.35
3	TW-0030	.046	6.28	.25	1.94	3.05
4	TW-0031	.018	29.29	1.75	1.50	2.07
5	TW-0032	<.002	.35	.03	.04	.15
6	TW-0033	.020	1.74	.13	.31	6.35
7	TW-0034	.034	20.97	.25	2.34	3.75
8	TW-0035	.008	17.50	.53	2.90	6.10
9	TW-0036	.010	.33	.02	.25	.36
10	TW-0037	.008	6.37	1.33	1.87	6.85
11	TW-0038	.044	7.32	1.17	8.20	7.95
12	TW-0039	.040	10.47	4.35	3.45	14.70
13	TW-0040	.020	28.07	2.23	18.10	6.50
14	TW-0041	.004	48.65	1.48	8.30	5.05
15	TW-0042	.028	37.69	2.25	4.10	5.95
16	TW-0043	.022	24.19	1.70	3.10	5.00
17	TW-0044	.008	11.10	.37	6.00	6.80

cc: Mr. Dale Armstrong
1525 E. Lind Rd.
Tucson, AZ 85719

7/13/90

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 290
July 16, 1990
TW-045 TO TW-076
PAGE 1 OF 2

SANTA FE PACIFIC MINING INC.
Attn: Mr. Duncan Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 32 Rock Chip Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (%)	Pb (%)	Zn (%)
1	TW-045	.016	4.97	.28	2.70	2.67
2	TW-046	.018	4.04	.47	10.40	14.90
3	TW-047	.016	8.97	.51	2.30	4.60
4	TW-048	.006	3.20	.62	1.98	2.36
5	TW-049	.004	7.75	.59	2.98	3.40
6	TW-050	.004	8.95	.42	1.83	8.65
7	TW-051	.006	16.65	.61	1.27	5.10
8	TW-052	.028	56.45	1.10	8.30	6.55
9	TW-053	.020	19.96	1.93	3.00	3.80
10	TW-054	.014	7.57	.49	3.55	3.50
11	TW-055	.006	1.95	.93	2.30	4.35
12	TW-056	.006	.72	.04	.09	.14
13	TW-057	.002	1.41	.08	.23	.21
14	TW-058	.004	11.79	1.09	4.35	3.20
15	TW-059	.002	1.15	.23	.66	.93
16	TW-060	<.002	1.54	.32	.36	1.08
17	TW-061	.135	16.89	.12	.76	.89
18	TW-062	.002	4.34	.17	1.92	1.58
19	TW-063	<.002	2.34	.05	.22	.27
20	TW-064 N.R.	.000	.00	.00	.00	.00
21	TW-065	<.002	.02	.01	.05	.03
22	TW-066	.004	1.93	.10	9.95	.32
23	TW-067	.002	.03	.02	.32	.13
24	TW-068	.002	.67	.02	.20	.08
25	TW-069	.006	1.06	.21	9.00	1.32

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 290
July 16, 1990

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (%)	Pb (%)	Zn (%)
26	TW-070	.012	15.61	.67	3.55	3.90
27	TW-071	.010	9.36	.21	1.31	4.00
28	TW-072	.012	8.20	.27	2.25	2.38
29	TW-073	.004	.94	.09	.43	1.21
30	TW-074	<.002	<.01	<.01	.03	.02
31	TW-075	.012	7.09	.26	1.45	.64
32	TW-076	.010	5.12	.50	2.30	2.95

*NOTE: Sample not received.

cc: Mr. Keith Eagan
56 Marindale
Logan, UT 84321

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK
7/16/90

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 259
July 17, 1990
TW-064 TO TW-100

SANTA FE PACIFIC MINING INC.
Attn: Mr. Duncan Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 25 Rock Chip Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (%)	Pb (%)	Zn (%)
1	TW-064	.004	4.46	.08	14.10	.88
2	TW-077	.105	6.09	1.46	10.50	7.10
3	TW-078	.190	5.81	.11	.99	1.43
4	TW-079	.030	23.19	.51	4.10	6.05
5	TW-080	.002	.55	.10	1.92	1.49
6	TW-081	.016	1.83	.15	4.65	.36
7	TW-082	.018	2.18	.19	4.30	1.53
8	TW-083	.006	.22	.02	1.17	.32
9	TW-084	.002	.06	<.01	.63	.19
10	TW-085	.008	.84	.06	5.05	.41
11	TW-086	.022	3.85	.22	1.07	.54
12	TW-087	.012	12.69	.81	4.10	3.30
13	TW-088	.010	6.42	.35	2.74	1.93
14	TW-089	.042	5.78	.76	6.10	4.65
15	TW-090	.016	6.51	.96	2.00	4.80
16	TW-091	.004	4.18	.33	1.99	1.66
17	TW-092	.006	24.29	.68	3.40	2.02
18	TW-093	.004	14.73	.39	.98	2.93
19	TW-094	.004	4.88	1.14	3.55	3.45
20	TW-095	.002	7.95	.36	1.62	1.61

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 259
July 17, 1990
PAGE 2 OF 2

ITEM	SAMPLE NO.	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (%)	Pb (%)	Zn (%)
21	TW-096	.002	5.59	.31	2.18	2.11
22	TW-097	.010	15.87	.86	2.97	1.68
23	TW-098	.004	5.22	.32	.67	1.22
24	TW-099	.004	5.76	.42	.79	2.24
25	TW-100	.012	5.75	.49	3.05	.79

cc: Mr. Keith Eagan
56 Marindale
Logan, UT 84321

William L. Lehmbeck
Manager

CLOSED TO MINING
WEST SIDE
TRIBUTE
HERALD
MAYFLOWER
BOSS
LAST CHANCE
FORTUNA
TRANQUILITY
HAWKEYE-LITTLE WONDER
EMPIRE
SILVER THREAD
PROTECTION
NORTH POINT
CONTENTMENT
CONTENTION
CINCINNATI
NEW YORK
CORNELL
FLORA MORRISON
YELLOW JACKET
BANNER
HOPE
TOUGH NUT
POUGH NUT
MARGARET
GABRIEL
KEAG
RAFAEL
HARD UP
LEMAN INTERVENER
(Multiple surface owners)
(TDC Min. pt. surface)
(TDC Min. pt. sur.)

REPORTS FEB., 1991

SEMI-ANNUAL REPORT TO TOMBSTONE DEVELOPMENT COMPANY ON THE TOMBSTONE PROJECT, COCHISE COUNTY, ARIZONA FEBRUARY 11, 1991

General. This report is submitted pursuant to the provisions of the lease between Tombstone Development Company and Santa Fe Pacific Mining, Inc. The data presented here are those generated from various field activities on the property between August 11, 1990 and February 11, 1991.

Reclamation. As previously agreed, Santa Fe Pacific Mining has undertaken a program to fill or fence hazardous mine workings and prospects on the leased property. This program was completed in December, 1990. Total direct project expenditures were in excess of $80,000, thus exceeding the amount initially agreed upon.

Geologic Mapping and Sampling. Geologic mapping in the Wedge project area, south of the PBR open pit, has been completed. A finalized version of the geologic map (Plate I) accompanies this report. This map incorporates only minor revisions to the preliminary map forwarded with the August 11, 1990 report. The reader is referred to that report for a discussion of the stratigraphy and structural geology of the project area.

Additional mine dump and outcrop sampling has been completed in the project area since the last report. Over 200 such samples have been collected and assayed for gold, silver, copper, lead, and zinc. Those taken on Tombstone Development property are shown on Plates II and III. (These overlay the geologic map; match lines are the upper and left hand margins). The sample locations on the plates have been color-coded according to gold and silver assay ranges, as shown by the legend on each sheet. Complete corresponding assay results are shown on the accompanying reports of analysis (Appendix I). The results of the additional sampling served mainly to confirm the trends of anomalous gold and silver reported previously; no new trends are shown by the data. Gold and silver anomalies are clearly associated with the E-W Oregon-Prompter fault and its horse-tailing, NE-trending splays. Anomalies appear to intensify in those areas where the Oregon-Prompter is cut by generally north-trending cross faults. These cross faults are, themselves, mineralized - strongly in places such as along the north-trending Comet and Emerald faults.

Drilling Results. The combined results of geologic mapping and sampling where used to spot the location of five drill holes, the location of which are shown on Plate I. These holes were primarily spotted to test major faults, or major fault intersections, which sampling showed to host ore grade material at shallow depths. A total of 1000 feet of coring and 3,400 feet of reverse circulation drilling was completed to evaluate these targets. Over-all results were disappointing, showing only thin, fault/vein-related argentiferous manganese oxide mineralization, assaying but a few ounces silver. Several exceptional and encouraging intercepts were, however, cut. Among these was a five foot interval in TW-01 which ran 26.23 opt Ag in an 11 foot zone averaging 12.65 opt, and a five foot zone in TW-03 which

assayed 0.180 opt Au and 4.80 opt Ag. Table 1 tabulates significant assay intervals cut during the drilling program. Complete assay results for all drill holes (Appendix II), as well as detailed drill logs (Appendix III) accompany this report. The following paragraphs summarize the important results from each hole.

DDH TW-01 was drilled in the Bunker Hill mine area, targeting the intersection of the east-west Rattlesnake fault and a series of NNE-trending cross faults. The hole deviated badly: 10° to the east and -15° in dip, showing a final orientation of N at -75°; the hole thus missed the intended target. The hole did cut a mapped strand of the Rattlesnake which dips south at 75°: the intercept, between 319' and 330' assayed 12.65 opt Ag in MnOx-altered Escabrosa limestone. The most intense mineralization lies in the immediate footwall of the fault where a five foot interval assayed 26.23 opt Ag, accompanied by minor Cu, Pb, and Zn. A major "feldspar porphyry dike" probably intruding the Horquilla, was cut between 621' and 679'. Both the footwall and hanging wall contact zone are characterized by moderate to strong clay alteration and moderate amounts of MnOx. Despite this alteration, assays show no significant gold or silver either in the limestone or dike rock in the contact zone. Deeper in the hole, a one foot zone between 889' and 890' cored typical CRD mineralization clearly unrelated to a fault. The intercept contained irregular blebs of galena and amberjack sphalerite, accompanied by sooty MnOx and small vugs containing wulfenite and mimetite, along with possible cerussite. This intercept, while small, most closely resembles the targeted type of mineralization of any obtained during the limited drilling program. It may represent the leading edge of a manto or chimney replacement front.

RC TW-02 was a vertical hole drilled 1100' SSW of the Emerald shaft to test a segment of the Emerald fault little explored during past mining operations, and suggested by Butler to hold good potential for mineralization. The hole was spotted 100 feet in the hanging wall of the fault which dips 76° to the WNW. The planned fault intercept was thus at 420 feet. This corresponds to a zone in the drill hole which contains mixed Abrigo and Bolsa lithologies between 410' and 445', characterized by moderate amounts of clay and FeOx. While this may be a normal stratigraphic contact, it is more probably the fault projection. No MnOx or other mineralization was observed in the cuttings as was confirmed by spot assays. The only significant interval cut was deep in the Bolsa between 750' and 755' which ran 2.33 opt Ag in weakly pyritic quartzite. A void encountered at 780' probably is the 700 level drift of the Emerald Mine. Assays of material immediately above and below the drift showed no significant mineralization.

RC TW-03, another vertical hole, was targeted on the west-raking (?) intersection of the Rattlesnake and Emerald faults in an area where the former cuts a manto trend striking NW from the fault. The hole penetrated several 10-15' zones of strong MnOx alteration in the Abrigo (Table 1); these zones, however, assayed only about two ounces of silver. The upper two zones (at 65' and 120') do not appear to be fault-related and may represent thin, true replacement mantos. The lower (265') zone occurs in a possible fault sliver of Bolsa quartzite (?). Below 550', cuttings show a complex jumble of shale, sandstone, quartzite, limestone, and marble, suggesting at least a part of the targeted structural intersection was penetrated. One interval in this zone assayed .180 opt Au and 4.80 opt Ag (Table 1), in a five foot thick fault slice of limestone.

RC TW-04 was drilled N10E at -45° to explore several south-dipping strands of the Rattlesnake fault near their intersection with a north-trending cross fault. While the hole penetrated several zones of weak MnOx alteration associated with these faults, only a very few produced significant silver assays. The best occurred between 195' and 215' (see Table 1). This interval is also occupied by two drifts or small stopes which exploited ore which developed at an E-W and N-S structural intersection. The intercepts reported above occur in the immediate footwalls of an 18' and a 5' stope; a dump sample from the nearby production shaft assayed .026 opt Au and 15.52 opt Ag.

RC TW-05 was drilled N38W at -65°, which, in conjunction with TW-01, was intended to complete a cross section across the Rattlesnake fault zone. The hole cut several NNE-trending faults in the Horquilla and TDed in the Bisbee. Exploration targets included fault-related mineralization, as well as mineralization at the Bisbee-Horquilla contact (a surface sample, taken at this contact in one locality assayed 0.190 opt Au). Table 1 shows the hole produced only two thin, low grade silver intercepts; no mineralization was present at the Paleozoic-Cretaceous contact.

Sir
I should ~~think~~ think this would require a meeting with a couple of you + then Bert Downing + Probably Bruce
I would like, some Spot Drilling with 8-30-95

TABLE 1
SIGNIFICANT ASSAY INTERVALS
TOMBSTONE WEDGE PROJECT
(cut–off values: Au 0.05 opt, Ag 0.50 opt, Pb and Zn 1%)

DDH TW-01 9860N, 10,400E 350° -60°				TD 1000'			
319-330'	(11')		12.65 opt Ag				mod MnOx in Me ls
(320-325'	(5')		26.23 opt Ag				mod MnOx in Me ls)
592-597'	(5')		.59 opt Ag				wk MnOx in Me ls
704-709'	(5')				1.04% Pb	1.55% Zn	mod MnOx in Ph ls bx
753-755'	(2')					4.45% Zn	wk MnOx in fault gouge
RC TW-02 8400N, 8150E Vertical Vertical				TD 800'			
750-755'	(5')		2.33 opt Ag				wk py in Cb
RC TW-03 9815N, 8665E Vertical Vertical				TD 800'			
65-75'	(10')		2.37 opt Ag				str MnOx in Ca ls
120-130'	(10')		1.89 opt Ag		.85% Pb	1.47% Zn	str MnOx in Ca ls
265-280'	(15')		2.15 opt Ag		.81% Pb	1.99% Zn	str MnOx in Cb qtz
725-730'	(5')	.180 opt Au	4.80 opt Ag				Ca limey ss
RC TW-04 9780N, 9550E 010° -45°				TD 800'			
195-200'	(5')		1.75 opt Ag			1.60% Zn	wk MnOx in Me ls
205-215'	(10')		.82 opt Ag			1.55% Zn	wk MnOx in Me ls
495-500'	(5')	.018 opt Au					mod MnOx in Me marb.
RC TW-05 10,220N, 10,270E 322° -65°				TD 1000'			
295-300'	(5')		.55 opt Ag				mod MnOx in Ph marb.
315-320'	(5')		.74 opt Ag				mod MnOx in Ph marb.

REPORTS AUG, 1991

REPORTS FEB., 1992

#5

Santa Fe Pacific Mining, Inc.

6200 Uptown Blvd. N.E., Suite 400
Albuquerque, New Mexico 87110
Box 27019
Albuquerque, New Mexico 87125
505/880-5300 Fax# 505/880-5435

February 6, 1992

Mr. La Verne Baxter, President
Tombstone Development Company
P. O. Box 1445
Grand Island, Nebraska 68801

RE: Tombstone Project
Cochise County, Arizona
File 3-033-0001

Dear La Verne:

MAP NOT INCLUDED

Attached is a map that shows the roads that Santa Fe developed in conjunction with our work on Tombstone Development Company lands during the last three years.

Santa Fe believes that these roads would be useful to anyone wishing to explore this property in the future. However, if you would like any or all of these roads reclaimed, please highlight those roads on the attached map and return to me and we will proceed with the reclamation.

Also please be advised that Santa Fe will file the required 1991/1992 assessment on this property.

If you have any questions concerning this map, please call.

Very truly yours,

Dennis Cole
Manager - Land

DVC:efo

Attachment

cc: P. G. Eby
W. D. Riesmeyer

Santa Fe Pacific Mining, Inc.

6200 Uptown Blvd. N.E., Suite 400
Albuquerque, New Mexico 87110
Box 27019
Albuquerque, New Mexico 87125
505/880-5300 Fax# 505/880-5435

CERTIFIED MAIL #P-765-879-237
RETURN RECEIPT REQUESTED

January 30, 1992

Mr. LaVerne Baxter, President
Tombstone Development Company
P. O. Box 1445
Grand Island, Nebraska 68801

RE: Tombstone Project
Cochise County, Arizona
SFPM File 3-033-0001

Dear LaVerne:

Attached in accordance with the terms of that certain Mining Lease between Tombstone Development Company and Santa Fe Pacific Mining, dated 2-11-86, is the required semi-annual report covering Santa Fe's work during the period of August 11, 1991 through February 11, 1992.

If you have any questions concerning this report, please give either Duncan or myself a call.

Very truly yours,

Dennis Cole
Manager - Land

DVC:efo

Attachment

cc: W. D. Riesmeyer

SEMI-ANNUAL REPORT TO TOMBSTONE DEVELOPMENT COMPANY ON THE TOMBSTONE PROJECT, COCHISE COUNTY, ARIZONA FEBRUARY 11, 1992

General. This report is submitted pursuant to the provisions of the lease between Tombstone Development Company and Santa Fe Pacific Mining, Inc. The data presented here are those generated from various field activities on the property between August 11, 1991 and February 11, 1992.

Drilling. Additional drilling was conducted on the property as a follow-up on drill results discussed in the February, 1991 report. A total of 17 additional holes, with a total aggregate footage of 9,405 feet, were drilled between November 8, 1991 and January 18, 1992. All holes were drilled reverse circulation, with depths ranging between 400 and 605 feet. Chip trays are in storage at the State of Maine Mine, in Tombstone, and all drill logs and assay sheets are appended to this report, as is a drill hole location map.

Target Concept. Given the discouraging results of earlier deep drilling in the main Tombstone basin, it was decided to shift the exploration effort to an area lying generally between the Emerald and Bunker Hill Mines, south of the Main District. The exploration advantages in this area include the following:

1) CRD-receptive Paleozoic carbonate stratigraphy is exposed on the surface, rather than buried under large thickness of Bisbee Fm as in the Main District.

2) Targeted structures and structural intersections in the Paleozoic can be mapped directly in this area, rather than inferred or conjectured as in the Main District.

3) Past production in the targeted area (i.e. the Bunker Hill and Emerald) suggests the potential for the occurrence of CRDs of a size and grade to be of economic interest.

4) Lacking a thick cover of Bisbee Fm, the target area might contain shallow, more economically extracted mineralization than would be the case in the Main District.

Within the Emerald - Bunker Hill Mine area (informally referred to as "the Wedge"), the primary drill targets were major faults and/or fault intersections. Most important among these was the generally east-west trending Bunker Hill-Rattlesnake fault system and the NNE-trending Emerald fault, both of which hosted, now mined-out, economic CRD mineralization. In addition, several other fault - fault intersection targets, which showed strong outcropping mineralization, were drilled (see drill hole location/geologic map). In all cases, CRD chimneys (at fault intersections), associated mantos, and

"blossoming" along mineralized faults were the exploration targets. The final phase of drilling (TW-18 through TW-22) explored, in detail, the Rattlesnake-Emerald fault crossing, searching for a possible chimney developed where the two faults, both of which hosted economic mineralization elsewhere, intersect.

Drill Results. The first phase of drilling examined three areas: 1) the Bunker Hill Mine (TW-06,-08,-09,-10,-11, and -12), 2) an area showing strong surface mineralization northwest of the Bunker Hill (TW-07), and 3) the Emerald Mine (TW-13 through TW-17). No intercepts of ore grade and/or width were cut in any of these areas. Mineralization in hole TW-17, however, was deemed worthy of follow-up drilling. All significant intercepts obtained during this first phase of the program are outlined in Table 1.

Drilling in the Bunker Hill Mine area was designed to test for mineralization associated with the Bunker Hill fault, and associated splays, along strike from the old mine workings, especially in those areas where generally north-south cross faults occur. In addition, hole location was designed to further investigate a thin, massive sulfide intercept obtained earlier in DDH TW-01 (see prior report). In most cases, the targeted structures were successfully identified in the cuttings based on the presence of thin, weak mineralization, or by changes in lithology. A review of Table 1 and the appended logs and assay sheets shows, however, that no economically significant mineralization is associated with these structures away from the old mine workings.

Drill hole TW-07 tested an area of closely spaced faults, cross faults, brecciation, and strong outcropping mineralization (see drill hole location map) which was thought to represent an excellent chimney target. Drill results suggest, however, that fault-hosted mineralization widths, on the surface, decrease dramatically down dip, effectively eliminating the potential existence of a massive sulfide chimney below the depth of the drill hole. Mineralization was so weak and/or narrow that no intervals from TW-07 were submitted for assay.

Drilling in the Emerald Mine area produced the most encouraging results of the first phase of the program. Hole TW-13 cut several short, but relatively high-grade silver intervals (see Table 1), but these were immediately adjacent to small stopes or drifts of the Emerald Mine, suggesting most ore in this area has been mined out. Drill hole TW-14 cut several intervals of low grade silver accompanied, in places, by anomalous gold (see assay sheets) - similar, in many respects, to intercepts in TW-03, immediately to the south. The best intercepts, however, were obtained in hole TW-17 (see Table 1), a hole drilled directly on the surface intersection of the Emerald and Rattlesnake-Bunker Hill faults. Given the favorable structural intersection at this location, as well as the relatively widespread presence of MnOx replacement and spotty ore grade gold and silver values, it was decided to test this area, in detail, with additional angle and vertical holes to determine if an irregularly shaped, ore-grade CRD chimney might be present.

TABLE I

Significant Assay Intervals
Tombstone Wedge Project
(cut-off values: Au 0.05 opt, Ag 0.50 opt)

RC TW-10	10,075N, 10,600E:		Vert	TD 605'	
515-520'	(5')		2.49 opt Ag		bleached zone in Me ls

RC TW-11	10,260N, 10,400E:		Vert	TD 600'	
425-430'	(5')		0.52 opt Ag		mod. MnOx in Ph ls

RC TW-12	10,260N, 10,615E:		Vert	TD 600'	
325-340'	(15')		1.59 opt Ag		wk MnOx in Ph ls
495-540'	(45')		1.86 opt Ag		wk MnOx in Ph ls

RC TW-13	9,602N, 8,675E:		Vert	TD 600'	
0-5'	(5')		1.19 opt Ag		mod MnOx in Me
15-25'	(10')		1.50 opt Ag		mod MnOx in Me
45-60'	(15')		11.55 opt Ag		mod MnOx in Me
75-80'	(5')		6.09 opt Ag		mod MnOx in Me
95-100'	(5')		28.65 opt Ag		mod MnOx in Me
105-110'	(5')		2.26 opt Ag		mod MnOx in Me

RC TW-14	9,902N, 8,680E:		Vert	TD 600'	
60-65'	(5')		1.89 opt Ag		mod MnOx in Ca ls
120-155'	(35')		2.92 opt Ag		mod MnOx in Ca ls
410-430'	(20')		0.63 opt Ag		mod MnOx in Ca ls
475-480'	(5')		0.70 opt Ag		mod MnOx in Ca ls
575-580'	(5')		0.93 opt Ag		wk MnOx in Ca ls

RC TW-15	10,450N, 8,680E:		Vert	TD 600'	
545-560'	(15')		1.62 opt Ag		mod MnOx in Ca ls

RC TW-16	10,005N, 8,860E:		Vert	TD 600'	
15-20'	(5')		1.57 opt Ag		str MnOx in Me ls
90-95'	(5')		0.70 opt Ag		wk MnOx in Me ls
105-110'	(5')		1.80 opt Ag		wk MnOx in Me ls

RC TW-17	9,960N, 8,790E:		Vert	TD 600'	
60-65'	(5')		1.71 opt Ag		mod MnOx in Me ls
215-230'	(15')		3.86 opt Ag		mod MnOx in Me ls
240-320'	(80')	0.0385*	4.20 opt Ag		wk to mod MnOx in Me ls
380-390'	(10')		7.11 opt Ag		mod MnOx in Me ls
410-435'	(25')		1.23 opt Ag		mod MnOx in Me ls

TABLE I
(continued)

Significant Assay Intervals
Tombstone Wedge Project
(cut-off values: Au 0.05 opt, Ag 0.50 opt)

RC TW-19	9,885N, 8,925E:	-70° @ 270°	TD 500'	
260-265'	(5')	0.59 opt Ag		wk MnOx in Ca ls
470-475'	(5')	0.75 opt Ag		wk MnOx in Ca ls
RC TW-20	**9,885N, 8,925E:**	**-58° @ N60W**	**TD 400'**	
155-170'	(15')	5.60 opt Ag		wk MnOx in Me ls
210-215'	(5')	0.50 opt Ag		mod MnOx in Me ls
235-240'	(5')	0.72 opt Ag		mod MnOx in Me ls
340-345'	(5')	1.13 opt Ag		mod MnOx in Me ls
RC TW-21	**9,885N, 8,925E:**	**-70° @ 000°**	**TD 400'**	
150-180'	(30')	0.99 opt Ag		wk to mod MnOx in Me ls
300-305'	(5')	3.97 opt Ag		str bleaching in Me ls
315-325'	(10')	0.96 opt Ag		wk to mod MnOx in Me ls
RC TW-22	**9,840N, 8,700E:**	**-50° @ 030°**	**TD 400'**	
75-120'	(45')	2.07 opt Ag		mod MnOx in Ca ls
310-315'	(5')	1.26 opt Ag		wk MnOx in Ca ls
335-340'	(5')	7.40 opt Ag		wk MnOx in Ca ls

*see assay sheets for this interval; includes 5' of .215 opt Au

Rattlesnake fault, and, in fact, cut long intervals of remarkably fresh carbonate. Further, hole TW-14 failed to confirm a previously postulated westerly rake to the Emerald-Rattlesnake fault intersection. Accordingly, by elimination, the ground lying south of the Rattlesnake and east of the Emerald was selected for additional exploratory drilling.

A vertical hole (TW-18) and a fan of angle holes were drilled in the prospective area (see drill hole location map). Hole TW-20 was drilled to intersect the middle of the best TW-17 intercept, i.e. at about 250 vertical feet below surface, while holes TW-19 and TW-21 were drilled to cut the Emerald and Rattlesnake faults, respectively, at the same absolute elevation - this in the case that mineralization might have a specific depth or lithologic control. Drill results, as shown on Table 1 were exceptionally disappointing. That mineralization which was cut is weak and sporadically distributed, probably representing thin mantos or veins, and presents no evidence of the proximity of the targeted chimney. In a similar manner, hole TW-22 was targeted at the TW-17 intercept, with similarly discouraging results.

R.C. DRILL HOLE
TW-6

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO W-06 DATE STARTED 11/8/91 COMPLETED 11/ / COLLAR ELEVATION 4785' TYPE DRILL RC BIT SIZE 5½
PROJECT Wedge LOGGED BY WDR T.D. 600' INCLINATION Vert BEARING N/A CONTRACTOR Gustin
COORDINATES Y(N) 10,050 X(E) 10,015 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I M+M	ALTERATION II #	ALTERATION II M+M	ALTERATION III #	ALTERATION III M+M	ALTERATION IV #	ALTERATION IV M+M	ALTERATION V #	ALTERATION V M+M	ALTERATION VI #	ALTERATION VI M+M	ALTERATION VII #	ALTERATION VII M+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I M+M	MINERALIZATION II #	MINERALIZATION II M+M	MINERALIZATION III #	MINERALIZATION III M+M	MINERALIZATION IV #	MINERALIZATION IV M+M	MINERALIZATION V #	MINERALIZATION V M+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	5		07	21	54	13																											Escabrosa Limestone: medium gray, weakly oxidized to 25'	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40																																	
	45																																	
	50																																	
	55																																	
	60																																	
	65																																	
	70																																	
	75																																	
	80			24																														
	85																																	
	90																																	
	95																																	
	100				54	22	55	13																										
	105			21																													Lo w mod chocolate brown - pervasive MnOx + weak hem spotting & staining	
	110																																	
	115																																	
	120																																	
	125																																	
	130																																	
	135				55	13																											Lo w weakly Fe stained	
	140																																	
	145																																	
	150																																	
	155		13	38																													Feldspar porphyry dike represented by a few chips	
	160		07	21																														
	165																																	
	170				51	11																												
	175																																	
	180																																	
	185																																	
	190																																	
	195																																	
	200																																	

HOLE NO. W-06 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PM	MINERALIZATION II #	MINERALIZATION II PM	MINERALIZATION III #	MINERALIZATION III PM	MINERALIZATION IV #	MINERALIZATION IV PM	MINERALIZATION V #	MINERALIZATION V PM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		07	21	51	11																											Excavation to	
	210																																	
	215																																	
	220																																	
	225																																	
	230																																	
	235																																	
	240			28	55	11																												
	245																																	
	250																																	
	255																																	
	260																																	
	265			21																														
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295																																	
	300																																	
	305																																	
	310																																	
	315																																	
	320																																	
	325																																	
	330																																	
	335																																	
	340																																	
	345																																	
	350																																	
	355				55	11																												
	360																																	
	365																																	
	370																																	
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																	

TW-06

HOLE NO -06 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I R+M	MINERALIZATION II #	MINERALIZATION II R+M	MINERALIZATION III #	MINERALIZATION III R+M	MINERALIZATION IV #	MINERALIZATION IV R+M	MINERALIZATION V #	MINERALIZATION V R+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	405		07	21																													Escalrosa ks	
	410																																	
	415																																	
	420																																	
	425																																	
	430																																	
	435																																	
	440																																	
	445																																	
	450																																	
	455				51	14																												
	460																																	
	465																																	
	470																																	
	475																																	
	480																																	
	485																																	
	490																																	
	495																																	
	500																																	
	505																																	
	510																																	
	515																																	
	520																																	
	525																																	
	530																																	
	535																																	
	540																																	
	545																																	
	550																																	
	555																																	
	560																																	
	565																																	
	570																																	
	575				51	11																												
	580																																	
	585																																	
	590																																	
	595																																	
	600																																TD	

TW-06

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 352
November 29, 1991
TOMBSTONE WEDGE
TW-6 (100 TO 130)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 6 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)*	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-6 100-105	<.002	5.0	235.	490.	780.
2	TW-6 105-110	<.002	2.6	145.	190.	740.
3	TW-6 110-115	<.002	6.8	44.	295.	860.
4	TW-6 115-120	<.002	2.3	24.	140.	380.
5	TW-6 120-125	<.002	.9	10.	24.	60.
6	TW-6 125-130	<.002	1.4	10.	18.	70.

*NOTE: Corrected heading.

William L. Lehmbeck
Manager
12/2/91

R.C. DRILL HOLE
TW-7

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO -07 DATE STARTED 11/15/91 COMPLETED 11/15 COLLAR ELEVATION ___ TYPE DRILL RC BIT SIZE ___

PROJECT Wedge LOGGED BY WDR T.D. 600' INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 10 150 X(E) 10 015 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I HM	ALTERATION II #	ALTERATION II HM	ALTERATION III #	ALTERATION III HM	ALTERATION IV #	ALTERATION IV HM	ALTERATION V #	ALTERATION V HM	ALTERATION VI #	ALTERATION VI HM	ALTERATION VII #	ALTERATION VII HM	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PHM	MINERALIZATION II #	MINERALIZATION II PHM	MINERALIZATION III #	MINERALIZATION III PHM	MINERALIZATION IV #	MINERALIZATION IV PHM	MINERALIZATION V #	MINERALIZATION V PHM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	0-5		06	21	51	14																											Hornfels Lo: dark gray	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40			35																													gray dolerite	
	45																																	
	50																																	
	55																																	
	60																																	
	65				55	13																												
	70			28																													pinkish weakly foliated 33	
	75																																	
	80																																	
	85			21																														
	90																																	
	95																																	
	100																																	
	105																																	
	110				56	22																												
	115																																	
	120																																	
	125																																	
	130																																	
	135				56	22																												
	140																																	
	145																																	
	150																																	
	155			35																														
	160																																	
	165																																	
	170																																	
	175																																	
	180																																	
	185																																	
	190			21																														
	195																																	
	200				56	22																												

TW-07

HOLE NO. W-07 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I P+M	MINERALIZATION II #	MINERALIZATION II P+M	MINERALIZATION III #	MINERALIZATION III P+M	MINERALIZATION IV #	MINERALIZATION IV P+M	MINERALIZATION V #	MINERALIZATION V P+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		06	21	56	22																											Horquilla Ls	
	210																																	
	215																																	
	220						55	11																										
	225																																	
	230																																	
	235																																	
	240																																	
	245			35																													dark gray dolomite	
	250																																	
	255																																	
	260			21																														
	265																																	
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295																																	
	300																																	
	305			35																														
	310																																	
	315																																	
	320																																	
	325																																	
	330																																	
	335																																	
	340			30	55	11													01	71	50												orange ss or gtzite w/ 1% diss considered pay	
	345																																	
	350																																	
	355																																	
	360																																	
	365																																	
	370																																	
	375																																	
	380			39																													dark gray dolomitic ls w/ only v weak HCl reaction	
	385																																	
	390																																	
	395																																	
	400																																	

TW-07

HOLE NO. N-07 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I %	MINERALIZATION II #	MINERALIZATION II %	MINERALIZATION III #	MINERALIZATION III %	MINERALIZATION IV #	MINERALIZATION IV %	MINERALIZATION V #	MINERALIZATION V %	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	405		06	39																													Hexquilite 63	
	410																																	
	415																																	
	420																																	
	425																																	
	430																																	
	435																																	
	440																																	
	445																																	
	450				57	11																											No sample 445 450'	
	455																																	
	460																																	
	465																																	
	470																																	
	475																																	
	480																																	
	485																																	
	490																																	
	495																																	
	500																																	
	505																																	
	510																																	
	515																																	
	520																																	
	525																																525'-550' series of small solution cavities: poor/no recovery	
	530																																	
	535																																	
	540																																	
	545																																	
	550																																	
	555																																	
	560																																	
	565																																	
	570																																	
	575																																	
	580																																	
	585																																	
	590																																	
	595																																	
	600		↓	↓	↓	↓																											TD	

TW-07

R.C. DRILL HOLE
TW-9

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO. 08 DATE STARTED 11/14/91 COMPLETED 11/14 COLLAR ELEVATION _____ TYPE DRILL [illegible] BIT SIZE [illegible]

PROJECT Wrdy DOWN LOGGED BY WDR T.D. 600 INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 10,065 X(E) 10,200 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I I+M	II #	II I+M	III #	III I+M	IV #	IV I+M	V #	V I+M	VI #	VI I+M	VII #	VII I+M	TOTAL	MINERALIZATION I #	I PM	II #	II PM	III #	III PM	IV #	IV PM	V #	V PM	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D
	0-5		07	21	54	14	55	12																									Escabrosa ls med gray ls oxidized to 25'	
	10																																	
	15																																	
	20																																	
	25						↓	↓																										
	30																																	
	35				↓	↓																												
	40																																	
	45																																	
	50																																	
	55																																	
	60																																	
	65																																	
	70				56	12																												
	75																																	
	80																																	
	85																																	
	90				↓	↓																												
	95				51	21	54	23																									Calcite vein w/ med disc 110OX	
	100																																	
	105																																	
	110				56	12	54	13																										
	115				↓	↓	↓	↓																										
	120																																	
	125																																	
	130																																	
	135																																	
	140																															?		
	145																																140'-150' chips coated w/ muddy brown gray clay - possib. fault?	
	150																																	
	155																																	
	160																																	
	165																																	
	170				55	12	54	11	57	11																								
	175						↓	↓	↓	↓																								
	180																																	
	185																																	
	190																																	
	195																																	
	200		↓	↓																														

TW-08

HOLE NO. 1-08 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I RHM	MINERALIZATION II #	MINERALIZATION II RHM	MINERALIZATION III #	MINERALIZATION III RHM	MINERALIZATION IV #	MINERALIZATION IV RHM	MINERALIZATION V #	MINERALIZATION V RHM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		07	21																													Exabrase Ls	
	210																																	
	215																																	
	220																																	
	225																																	
	230																																	
	235																																	
	240																																	
	245				55	12	54	11	52	12																							possible fault zone	
	250																																	
	255																																	
	260				55	11																												
	265																																	
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295				51	13																												
	300																																	
	305																																	
	310																																	
	315																																	
	320																																	
	325																																	
	330																																	
	335																																	
	340																																	
	345																																	
	350																																	
	355																																	
	360																																	
	365																																	
	370																																	
	375																																	
	380				55	13																												
	385																																	
	390																																	
	395																																	
	400																																	

TW-08

HOLE NO. V-08 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I H+M	II #	II H+M	III #	III H+M	IV #	IV H+M	V #	V H+M	VI #	VI H+M	VII #	VII H+M	TOTAL	MINERALIZATION I #	I P+M	II #	II P+M	III #	III P+M	IV #	IV P+M	V #	V P+M	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	405		07	21																													Excavation to	
	410																																	
	415				56	22																												
	420																																	
	425																																	
	430																																	
	435																																	
	440																																	
	445				55	13																												
	450																																	
	455																																	
	460																																	
	465																																	
	470																																	
	475																																	
	480																																	
	485																																	
	490																																	
	495																																	
	500				56	12																												
	505																																	
	510																																	
	515																																	
	520																																	
	525																																	
	530																																	
	535																																	
	540																																	
	545																																	
	550																																	
	555																																	
	560				57	22	56	22																									Probable South zone 555'-565'	
	565																																	
	570																																	
	575																																	
	580																																	
	585				51	11																												
	590																																	
	595																																	
	600																																TD	

TW-08

R.C. DRILL HOLE
TW-9

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO W-09 DATE STARTED 11/9/91 COMPLETED 11/10/ COLLAR ELEVATION ___ TYPE DRILL RC BIT SIZE ___

PROJECT Wedge LOGGED BY WDR T.D. 600 INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 10,070 X(E) 10,415 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PM	MINERALIZATION II #	MINERALIZATION II PM	MINERALIZATION III #	MINERALIZATION III PM	MINERALIZATION IV #	MINERALIZATION IV PM	MINERALIZATION V #	MINERALIZATION V PM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	0-5		07	21																													Excellent to med gray; some saliche 0-5'	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40																																	
	45																																	
	50																																	
	55				52	12	54	13																										
	60																																	
	65																																	
	70																																	
	75																																	
	80				55	11	54	13																										
	85																																	
	90																																	
	95																																	
	100																																	
	105																																	
	110																																	
	115																															45		
	120				57	22																											possible 5' fault	
	125																																	
	130																																	
	135																																	
	140																																	
	145																																	
	150																																	
	155																																	
	160																																	
	165				55	11	54	14											21	71	100 3													
	170																																	
	175																																	
	180																																	
	185																																	
	190																																	
	195																																	
	200																																	

TW-09

HOLE NO TW-09 DATE STARTED ___ COMPLETED ___ COLLAR ELEVATION ___ TYPE DRILL ___ BIT SIZE ___

PROJECT ___ LOGGED BY ___ T.D. ___ INCLINATION ___ BEARING ___ CONTRACTOR ___

COORDINATES Y(N) ___ X(E) ___ DRIFT SURVEY INTERVAL ___ CONDUCTED BY ___

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I H+M	II #	II H+M	III #	III H+M	IV #	IV H+M	V #	V H+M	VI #	VI H+M	VII #	VII H+M	MINERALIZATION TOTAL	I #	I RH+M	II #	II RH+M	III #	III RH+M	IV #	IV RH+M	V #	V RH+M	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	205		07	21																													Feedlace 6°	
	210																																	
	215																																	
	220				53	12																											possible fault	
	225																																	
	230																																	
	235																																	
	240																																	
	245				55	11	54	13																										
	250																																	
	255				55	11	54	13																										
	260																																	
	265																																	
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295				54	23																												
	300																																	
	305																																	
	310																																	
	315																																	
	320																																	
	325				54	13	55	13											51	71	100/3												weak 1/4mm dendritic accomp by rare diss py & FeOx st.	
	330																																	
	335																																	
	340																																	
	345																																	
	350																																	
	355																																	
	360																																	
	365																																	
	370																																	
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																	

TW-09

HOLE NO 1-09 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I HM	II #	II HM	III #	III HM	IV #	IV HM	V #	V HM	VI #	VI HM	VII #	VII HM	MINERALIZATION TOTAL	I #	I PHM	II #	II PHM	III #	III PHM	IV #	IV PHM	V #	V PHM	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	405		07	21																													Fracture	
	410																																	
	415				54	13	51	11																										
	420																																	
	425																																	
	430																																	
	435																																	
	440																																	
	445																																	
	450																																	
	455																																	
	460																																	
	465																																	
	470				52	12	59	13																										
	475																																	
	480																																	
	485																																	
	490																																	
	495																																	
	500																																	
	505																																	
	510																																	
	515						55	11	59	14																								
	520																																	
	525																																	
	530																																	
	535																																	
	540																																	
	545																																	
	550																																	
	555																																	
	560																																	
	565																																	
	570																																	
	575																																	
	580																																	
	585																																	
	590																																	
	595																																	
	600																																TD	

TW-09

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 353
December 4, 1991
TOMBSTONE WEDGE
TW-09 (290 TO 385)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 13 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-09 290-295	<.002	.1	8.	10.	44.
2	TW-09 320-325 *	.000	.0	0.	0.	0.
3	TW-09 325-330	<.002	.3	8.	8.	70.
4	TW-09 330-335	<.002	.3	6.	10.	55.
5	TW-09 335-340	<.002	.7	16.	16.	100.
6	TW-09 340-345	<.002	.4	10.	14.	120.
7	TW-09 345-350	<.002	.5	8.	18.	115.
8	TW-09 350-355	<.002	.9	14.	120.	155.
9	TW-09 355-360	.008	.8	22.	290.	420.
10	TW-09 360-365	<.002	2.5	6.	85.	345.
11	TW-09 365-370	<.002	6.6	105.	4350.	4900.
12	TW-09 370-375	.002	13.0	240.	3600.	3600.
13	TW-09 375-380	<.002	6.1	16.	335.	1050.
14	TW-09 380-385	<.002	2.3	4.	205.	440.

*NOTE: Sample not received.

William L. Lehmbeck
Manager
12/4/91

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

R.C. DRILL HOLE
TW-10

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

PAGE [illegible] OF 3

HOLE NO 1-10 DATE STARTED 11/10/91 COMPLETED 11/11/9 COLLAR ELEVATION _____ TYPE DRILL [illegible] BIT SIZE 1/2

PROJECT Windee LOGGED BY [illegible] T.D. 605' INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 10,075 X(E) 10,600 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I P+M	MINERALIZATION II #	MINERALIZATION II P+M	MINERALIZATION III #	MINERALIZATION III P+M	MINERALIZATION IV #	MINERALIZATION IV P+M	MINERALIZATION V #	MINERALIZATION V P+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	0-5		07	21																													Fractures to med-dk gray	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40																																	
	45																																	
	50																																	
	55																																	
	60																																	
	65																																	
	70																																	
	75				52	12																											poss. minor fault	
	80																																	
	85																																	
	90																																	
	95																																	
	100																																	
	105																																	
	110				52	17																											poss. minor fault	
	115				↓	↓																											↓	
	120																																	
	125																																	
	130				51	11																												
	135				(	(																												
	140				↓	↓																												
	145																																	
	150																																	
	155																																	
	160																																	
	165																																	
	170																																	
	175																																	
	180				55	11	54	14																										
	185																																	
	190																																	
	195																																	
	200																																	

TW-10

PAGE ___ OF 3

HOLE NO - N-10 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I H+M	ALTERATION II #	ALTERATION II H+M	ALTERATION III #	ALTERATION III H+M	ALTERATION IV #	ALTERATION IV H+M	ALTERATION V #	ALTERATION V H+M	ALTERATION VI #	ALTERATION VI H+M	ALTERATION VII #	ALTERATION VII H+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I R+M	MINERALIZATION II #	MINERALIZATION II R+M	MINERALIZATION III #	MINERALIZATION III R+M	MINERALIZATION IV #	MINERALIZATION IV R+M	MINERALIZATION V #	MINERALIZATION V R+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		7	21																													Fractures 6a	
	210																																	
	215																																	
	220																																	
	225																																	
	230																																	
	235																																	
	240																																	
	245																																	
	250																																	
	255																																	
	260																																	
	265				57	12	54	13																										
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295																																	
	300																																	
	305																																	
	310																																	
	315																																	
	320																																	
	325																																	
	330																																	
	335				57	12	54	13																										
	340																																	
	345																																	
	350																																	
	355																																	
	360																																	
	365				56	12	54	13	55	13																								
	370																																	
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																	

TW-10

PAGE ___ OF 3

HOLE NO -10 DATE STARTED ___ COMPLETED ___ COLLAR ELEVATION ___ TYPE DRILL ___ BIT SIZE ___

PROJECT ___ LOGGED BY ___ T.D. ___ INCLINATION ___ BEARING ___ CONTRACTOR ___

COORDINATES Y(N) ___ X(E) ___ DRIFT SURVEY INTERVAL ___ CONDUCTED BY ___

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I H+M	ALTERATION II #	ALTERATION II H+M	ALTERATION III #	ALTERATION III H+M	ALTERATION IV #	ALTERATION IV H+M	ALTERATION V #	ALTERATION V H+M	ALTERATION VI #	ALTERATION VI H+M	ALTERATION VII #	ALTERATION VII H+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I R+M	MINERALIZATION II #	MINERALIZATION II R+M	MINERALIZATION III #	MINERALIZATION III R+M	MINERALIZATION IV #	MINERALIZATION IV R+M	MINERALIZATION V #	MINERALIZATION V R+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	405		57	21																													Excellent Core	
	410		(	(																														
	415		)	)																														
	420		)	)																														
	425		)	)																														
	430		)	)																														
	435		)	)																														
	440		)	)	55	32																												
	445		)	)	(	(	57	12	51	11																								
	450		)	)	)	)	(	(	(	(																								
	455		)	)	)	)	)	)	)	)																								
	460		)	)	↓	↓	↓	↓	↓	↓																								
	465		)	)	56	22																												
	470		)	)	(	(																												
	475		)	)	)	)																												
	480		)	)	)	)																												
	485		)	)	)	)																												
	490		)	)	)	)																												
	495		)	)	)	)																												
	500		)	)	)	)																												
	505		)	)	)	)																												
	510		)	)	)	)																												
	515		)	)	)	)																												
	520		)	)	)	)																												
	525		)	)	)	)																												
	530		)	)	)	)																												
	535		)	)	)	)																												
	540		)	)	)	)																												
	545		)	)	)	)																												
	550		)	)	↓	↓																												
	555		)	)	)	)																												
	560		)	)	)	)																												
	565		)	)	54	14																												
	570		)	)	(	(																												
	575		)	)	)	)																												
	580		)	)	)	)																												
	585		)	)	)	↓																												
	590		)	)	)	71																												
	595		)	)	)	(																												
	600		)	)	↓	↓																												
	605		↓	↓																													70	

TW-10

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 354
November 29, 1991
TOMBSTONE WEDGE
TW-10 (430 TO 600)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 10 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag ~~(oz/t)~~ ppm	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-10 430-435	<.002	.3	4.	14.	80.
2	TW-10 435-440	<.002	.4	4.	10.	85.
3	TW-10 440-445	<.002	.4	8.	12.	70.
4	TW-10 445-450	<.002	.4	10.	10.	42.
5	TW-10 450-455	<.002	.3	8.	8.	48.
6	TW-10 455-460	<.002	.3	4.	12.	105.
7	TW-10 515-520	.004	86.0	1900.	9850.	9000.
8	TW-10 585-590	<.002	3.5	44.	355.	250.
9	TW-10 590-595	.004	14.0	205.	2250.	1850.
10	TW-10 595-600	<.002	12.0	175.	740.	1400.

R.C. DRILL HOLE
TW-11

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

PAGE ___ OF 3

HOLE NO H-11 DATE STARTED 11/12/81 COMPLETED 11/1 COLLAR ELEVATION ___ TYPE DRILL RC BIT SIZE 5

PROJECT Wedge LOGGED BY WRC T.D. 605 INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 10,760 X(E) 10,400 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I RIM	MINERALIZATION II #	MINERALIZATION II RIM	MINERALIZATION III #	MINERALIZATION III RIM	MINERALIZATION IV #	MINERALIZATION IV RIM	MINERALIZATION V #	MINERALIZATION V RIM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	0-5		06	21																														
	10																																	
	15																																	
	20																																	
	25				54	14																												
	30																																	
	35																																	
	40																																	
	45																																	
	50																																	
	55																																	
	60				55	22	52	72	54	14																								
	65																																	
	70																																	
	75																																	
	80																																	
	85																																	
	90																																	
	95																																	
	100																																	
	105																																	
	110																																	
	115																																	
	120																																	
	125																																	
	130																																	
	135																																	
	140																																	
	145				55	22	52	72	54	14																								
	150																																	
	155																																	
	160																																Tiny flakes of unidentified silver-colored metallic = AlnOx	
	165																																	
	170		00																															
	175																																	
	180																																	
	185		06	21																														
	190																																	
	195		00																															
	200		06	21																														

TW-11

HOLE NO 41-11 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I P+M	MINERALIZATION II #	MINERALIZATION II P+M	MINERALIZATION III #	MINERALIZATION III P+M	MINERALIZATION IV #	MINERALIZATION IV P+M	MINERALIZATION V #	MINERALIZATION V P+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		26	71																													Hornfels	
	210																																	
	215																																	
	220				54	14																												
	225																																	
	230		13	39																														
	235		26	71	54	14																												
	240					14																												
	245					14																												
	250																																	
	255																																	
	260																																	
	265																																	
	270																																	
	275				54	14																												
	280																																	
	285																																	
	290																																	
	295																																	
	300																																	
	305																																	
	310																																	
	315																																	
	320																																	
	325																																	
	330		26	71	54	14																												
	335																																	
	340																																	
	345																																	
	350						55	12																										
	355																																	
	360						52	12																										
	365																																	
	370																		21	71	100 3													
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400						55	12																										

TW-11

HOLE NO - W-11 DATE STARTED ___ COMPLETED ___ COLLAR ELEVATION ___ TYPE DRILL ___ BIT SIZE ___

PROJECT ___ LOGGED BY ___ T.D. ___ INCLINATION ___ BEARING ___ CONTRACTOR ___

COORDINATES Y(N) ___ X(E) ___ DRIFT SURVEY INTERVAL ___ CONDUCTED BY ___

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I P+M	MINERALIZATION II #	MINERALIZATION II P+M	MINERALIZATION III #	MINERALIZATION III P+M	MINERALIZATION IV #	MINERALIZATION IV P+M	MINERALIZATION V #	MINERALIZATION V P+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	405		06	21	55	12	52	22	54	141																							Hoquilla Ls	
	410																																	
	415																																	
	420																																	
	425				54	24																												
	430																																	
	435																																	
	440																																	
	445																																	
	450																																	
	455																																	
	460																																	
	465																																	
	470					211	55	22	52	12									02	71	133													
	475																																	
	480					141																												
	485																																	
	490									22																								
	495																																	
	500																																	
	505																																	
	510							32																										
	515																																	
	520							22																										
	525									32									04														first heavy dacite ash in core white in this interval	
	530						55	77		22									02															
	535				54	141																												
	540																																	
	545																																	
	550																																	
	555																																	
	560																																	
	565																																	
	570																																	
	575																																	
	580				54	141																												
	585																																	
	590																																	
	595																																	
	600																																TD	

TW-11

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 355
December 6, 1991
TOMBSTONE WEDGE
TW-11 (55 TO 600)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 30 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-11 55-60	<.002	1.0	40.	85.	220.
2	TW-11 60-65	.002	.4	48.	18.	70.
3	TW-11 65-70	<.002	.2	28.	12.	60.
4	TW-11 70-75	.002	.1	10.	10.	44.
5	TW-11 75-80	<.002	.1	12.	12.	55.
6	TW-11 80-85	<.002	<.1	10.	14.	44.
7	TW-11 85-90	<.002	<.1	8.	12.	42.
8	TW-11 90-95	<.002	<.1	8.	12.	44.
9	TW-11 95-100	<.002	<.1	8.	12.	55.
10	TW-11 100-105	<.002	.3	12.	24.	95.
11	TW-11 105-110	<.002	.1	6.	10.	65.
12	TW-11 110-115	<.002	.2	10.	14.	70.
13	TW-11 140-145	<.002	.5	20.	20.	145.
14	TW-11 145-150	<.002	.1	20.	12.	210.
15	TW-11 150-155	<.002	.4	26.	20.	175.
16	TW-11 155-160	<.002	.3	16.	18.	140.
17	TW-11 160-165	<.002	.5	22.	18.	110.
18	TW-11 235-240	<.002	2.5	220.	810.	1300.
19	TW-11 420-425	<.002	9.2	80.	1400.	2250.
20	TW-11 425-430	<.002	18.0	150.	1250.	2500.
21	TW-11 430-435	<.002	7.9	18.	95.	350.
22	TW-11 435-440	<.002	8.6	60.	325.	490.
23	TW-11 440-445	<.002	7.0	12.	160.	280.
24	TW-11 445-450	<.002	10.0	12.	155.	435.
25	TW-11 450-455	<.002	5.3	55.	130.	700.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 355
December 6, 1991

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	TW-11 575-580	<.002	.5	16.	36.	215.
27	TW-11 580-585	<.002	.3	10.	28.	200.
28	TW-11 585-590	.002	3.6	215.	2400.	6900.
29	TW-11 590-595	.002	2.4	80.	580.	1100.
30	TW-11 595-600	<.002	3.2	20.	110.	560.

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK PHOENIX, ARIZONA U.S.A.

William L. Lehmbeck
Manager

12/6/91

R.C. DRILL HOLE
TW-12

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO 1-12 DATE STARTED 11/1/81 COMPLETED 11/1/81 COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT Windy LOGGED BY WPP T.D. 600' INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 10,260 X(E) 10,615 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I H+M	ALTERATION II #	ALTERATION II H+M	ALTERATION III #	ALTERATION III H+M	ALTERATION IV #	ALTERATION IV H+M	ALTERATION V #	ALTERATION V H+M	ALTERATION VI #	ALTERATION VI H+M	ALTERATION VII #	ALTERATION VII H+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I RH+M	MINERALIZATION II #	MINERALIZATION II RH+M	MINERALIZATION III #	MINERALIZATION III RH+M	MINERALIZATION IV #	MINERALIZATION IV RH+M	MINERALIZATION V #	MINERALIZATION V RH+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
0-5		06	21																												Hoquiam Ls.	
10																																	
15				54	14																												
20																																	
25																																	
30																																	
35																																	
40																																	
45																																	
50																																	
55																																	
60																																	
65																																	
70																																	
75				55	22	54	14																								Fair alteration - rock a light salmon red w/ much black dendrites; possible v. wk clay alteration	
80																																	
85																																	
90																																	
95																																	
100																																	
105				54	12																												
110																																	
115																																	
120																																	
125																																	
130																																	
135																																	
140																																	
145																																	
150																																	
155																																	
160																																	
165																																	
170						54	14																										
175																																	
180																																	
185																																	
190																																	
195				55	22			52	12																								
200																																	

TW-12

HOLE NO. W-12 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I PPM	ALTERATION II #	ALTERATION II PPM	ALTERATION III #	ALTERATION III PPM	ALTERATION IV #	ALTERATION IV PPM	ALTERATION V #	ALTERATION V PPM	ALTERATION VI #	ALTERATION VI PPM	ALTERATION VII #	ALTERATION VII PPM	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PPM	MINERALIZATION II #	MINERALIZATION II PPM	MINERALIZATION III #	MINERALIZATION III PPM	MINERALIZATION IV #	MINERALIZATION IV PPM	MINERALIZATION V #	MINERALIZATION V PPM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		50	21	55	22	57	22	54	14																							Strong clay alteration - no HCl reaction	
	210																																	
	215																																	
	220																																	
	225																																	
	230																																	
	235																																	
	240																																	
	245																		81	71	100													
	250																																	
	255																																	
	260																																	
	265																																	
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295				52	22	53	12	54	14																								
	300																																	
	305				54	22																												
	310																																310'-325' Mine workings - no sample	
	315		20																															
	320																																	
	325																																	
	330		76	21	54	14																												
	335																																	
	340																																	
	345																																	
	350																																	
	355																																	
	360																																	
	365																																	
	370																																	
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																	

TW-12

HOLE NO 11-12 DATE STARTED ___ COMPLETED ___ COLLAR ELEVATION ___ TYPE DRILL ___ BIT SIZE ___

PROJECT ___ LOGGED BY ___ T.D. ___ INCLINATION ___ BEARING ___ CONTRACTOR ___

COORDINATES Y(N) ___ X(E) ___ DRIFT SURVEY INTERVAL ___ CONDUCTED BY ___

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I H+M	II #	II H+M	III #	III H+M	IV #	IV H+M	V #	V H+M	VI #	VI H+M	VII #	VII H+M	TOTAL	MINERALIZATION I #	I Pr+M	II #	II Pr+M	III #	III Pr+M	IV #	IV Pr+M	V #	V Pr+M	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	405		Cr	21																													Hexpulite bs	
	410																																	
	415																																	
	420																																	
	425																																	
	430				52	72	55	12	54	14																								
	435																																	
	440																																	
	445																																	
	450																																	
	455																																	
	460																																	
	465																																	
	470																																	
	475																			01	71	100 %												
	480																																	
	485																																	
	490																																	
	495																																	
	500				52	12	55	12	54	14																								
	505																																	
	510																																cas clip of possibly limonite material not possible PBOX	
	515																																	
	520																																	
	525																																	
	530																																525-530' No sample	
	535																																	
	540																																	
	545																																	
	550																																	
	555																																	
	560																																	
	565																																	
	570																																	
	575																																	
	580																																	
	585																																	
	590																																	
	595																																	
	600																																TD	

T-W-12

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 356
December 6, 1991
TOMBSTONE WEDGE
TW-12 (70 TO 555)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 38 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-12 70-75	.002	.3	10.	95.	200.
2	TW-12 75-80	<.002	.4	10.	20.	95.
3	TW-12 80-85	<.002	.8	10.	16.	65.
4	TW-12 85-90	<.002	1.0	<2.	18.	70.
5	TW-12 90-95	<.002	.2	<2.	20.	55.
6	TW-12 95-100	<.002	.2	30.	115.	170.
7	TW-12 190-195	<.002	3.5	12.	770.	380.
8	TW-12 195-200	<.002	2.4	12.	1100.	405.
9	TW-12 200-205	<.002	.5	6.	435.	720.
10	TW-12 205-210	<.002	3.3	12.	900.	320.
11	TW-12 210-215	<.002	2.4	<2.	1100.	370.
12	TW-12 215-220	<.002	1.6	2.	640.	145.
13	TW-12 220-225	<.002	1.9	4.	510.	120.
14	TW-12 225-230	<.002	.5	16.	75.	270.
15	TW-12 290-295 *	.000	.0	0.	0.	0.
16	TW-12 295-300 *	.000	.0	0.	0.	0.
17	TW-12 300-305 *	.000	.0	0.	0.	0.
18	TW-12 305-310 *	.000	.0	0.	0.	0.
19	TW-12 325-330	<.002	85.0	600.	630.	1400.
20	TW-12 330-335	<.002	23.0	115.	200.	340.
21	TW-12 335-340	<.002	56.0	440.	520.	1150.
22	TW-12 425-430	<.002	4.3	4.	30.	140.
23	TW-12 430-435	<.002	2.2	2.	24.	85.
24	TW-12 435-440	<.002	1.2	16.	20.	80.
25	TW-12 440-445	.006	5.9	14.	55.	135.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 356
December 6, 1991

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	TW-12 445-450	.002	6.2	55.	46.	95.
27	TW-12 450-455	<.002	.9	26.	16.	36.
28	TW-12 455-460	<.002	1.4	10.	16.	65.
29	TW-12 460-465	<.002	.8	<2.	16.	55.
30	TW-12 465-470	<.002	.6	2.	24.	75.
31	TW-12 470-475	.006	1.3	10.	22.	55.
32	TW-12 475-480	.004	4.7	270.	570.	220.
33	TW-12 495-500	.002	34.0	140.	1450.	1700.
34	TW-12 500-505	.008	295.0	1850.	33000.	11000.
35	TW-12 505-510	.012	110.0	3900.	38000.	26500.
36	TW-12 510-515	.008	39.0	1950.	19000.	15000.
37	TW-12 515-520 *	.000	.0	0.	0.	0.
38	TW-12 520-525	.006	44.0	1550.	5600.	4650.
39	TW-12 530-535	.002	40.0	1100.	4550.	2750.
40	TW-12 535-540	.010	20.0	800.	2300.	1650.
41	TW-12 540-545	.012	16.0	245.	920.	730.
42	TW-12 545-550	.010	12.0	150.	730.	710.
43	TW-12 550-555	.002	10.0	80.	570.	710.

*NOTE: Sample not received.

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK ARIZONA U.S.A.

William L. Lehmbeck
Manager

12/6/91

R.C. DRILL HOLE
TW-13

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code		Feature Code		Alteration Code		Intensity Code		Mineralization Code		Structure Code	
00	Caverns/mine workings	21	limestone	51	calcite	1	Weak	71	pyrite	01	bedding
01	Alluvium	22	porphyritic andesite	52	clay	2	Moderate	72	galena	02	breccia
02	Bisbee Fm	23	mudstone/shale	53	silica	3	Strong	73	sphalerite	03	gouge
03	Epitaph Dol	24	limey mudstone/shale	54	MnOx			74	lead oxides	04	veins
04	Colina Ls	25	gouge	55	FeOx						
05	Earp Fm	26	breccia	56	bleaching		**Mode Code**				
06	Horquilla Ls	27	marble	57	epidote						
07	Escabrosa Ls	28	limey sandstone	58	pink calcite	1	Vein/veinlet				
08	Martin Ls	29	quartzite			2	Flooding/Pervasive				
09	Abrigo Ls	30	sandstone			3	Disseminated				
10	Bolsa Qtzite	31	MnOx			4	Dendritic				
11	Inter/Mafic Dikes	32	porphyritic intermediate dike rock			5	Joint coatings				
12	Fault zone	33	chert			6	Blebs				
13	Feldspar porphyry	34	siltstone								
		35	dolomite								
		36	conglomerate								
		37	vuggy limestone								
		38	feldspar porphyry								
		39	dolomitic limestone								

HOLE NO. 1-13 DATE STARTED 11/2/91 COMPLETED 11/2 COLLAR ELEVATION _____ TYPE DRILL [illegible] BIT SIZE [illegible]/8

PROJECT Wedge LOGGED BY [illegible] T.D. 600' INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 9,602 X(E) 8,675 DRIFT SURVEY INTERVAL 11/2 CONDUCTED BY [illegible]

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I H+M	II #	II H+M	III #	III H+M	IV #	IV H+M	V #	V H+M	VI #	VI H+M	VII #	VII H+M	TOTAL	MINERALIZATION I #	I RHM	II #	II RHM	III #	III RHM	IV #	IV RHM	V #	V RHM	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	0-5		07	21	54	22																											Fractures 60	
	10		(	(	(	(																												
	15		(	(	(	↓																												
	20		(	(	(	32																												
	25		(	(	(	(																												
	30		(	(	(	22																												
	35		(	(	(	(	55	12																										
	40		(	(	(	(	(	(																										
	45		(	(	(	(	(	(																										
	50		(	(	(	↓	(	(																										
	55		(	(	(	32	(	(																									Fracturing due MnOx coating	
	60		↓	↓	↓	↓	↓	↓																										
	65		∞	∞																													All "∞" are slopes α depth of Ernald Mine	
	70		(	(																														
	75		↓	↓																														
	80		07	21	54	22	55	12																										
	85		∞	∞																														
	90		(	(																														
	95		↓	↓																														
	100		07	21	54	22	55	12																									possible slope fall	
	105		∞	∞																														
	110		07	21	54	22	55	12																										
	115		(	(	(	(	(	(																										
	120		(	(	(	(	(	(																										
	125		(	(	(	↓	(	(																										
	130		(	(	(	32	(	(																										
	135		(	(	(	(	(	(																										
	140		(	(	↓	22	↓	↓																										
	145		(	(					52	22																								
	150		(	(					(	(																								
	155		(	(					↓	↓																								
	160		(	(	54	13																												
	165		(	(	(	(																												
	170		(	(	(	(																												
	175		(	(	(	(																												
	180		(	(	(	↓																												
	185		(	(	(	23																												
	190		(	(	(	(																												
	195		(	(	(	(																												
	200		↓	↓	↓	↓																												

TW-13

HOLE NO — H-13 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I HM	ALTERATION II #	ALTERATION II HM	ALTERATION III #	ALTERATION III HM	ALTERATION IV #	ALTERATION IV HM	ALTERATION V #	ALTERATION V HM	ALTERATION VI #	ALTERATION VI HM	ALTERATION VII #	ALTERATION VII HM	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PHM	MINERALIZATION II #	MINERALIZATION II PHM	MINERALIZATION III #	MINERALIZATION III PHM	MINERALIZATION IV #	MINERALIZATION IV PHM	MINERALIZATION V #	MINERALIZATION V PHM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		67	21	54	23																												
	210		↓	↓	↓	↓																												
	215		↓	↓	54	13																												
	220		↓	↓	↓		55	13																										
	225		↓	↓	↓	↓	↓	↓																										
	230		↓	↓	↓	↓	↓	↓																										
	235		↓	↓	↓	↓	↓	↓																										
	240		↓	↓	↓	↓	↓	↓																										
	245		↓	↓	↓	↓	↓	↓																										
	250		↓	↓	↓	↓	↓	↓																										
	255		↓	↓	↓	↓	↓	↓																										
	260		↓	↓	↓	↓	↓	↓																										
	265		↓	↓	↓	↓	↓	↓																										
	270		↓	↓	↓	↓	↓	↓																										
	275		↓	↓	↓	↓	↓	↓																										
	280		↓	↓	↓	↓	↓	↓																										
	285		↓	↓	↓	↓	↓	↓																										
	290		↓	↓	↓	↓	↓	↓																										
	295		↓	↓	↓	↓	↓	↓																										
	300		↓	↓	↓	↓	↓	↓																										
	305		↓	↓			↓	↓																										
	310		↓	↓			↓	↓																										
	315		↓	↓			↓	↓																										
	320		↓	↓			↓	↓																										
	325		↓	↓			↓	↓																										
	330		↓	↓			↓	↓																										
	335		↓	↓			↓	↓																										
	340		↓	↓			↓	↓																										
	345		↓	↓			↓	↓																										
	350		↓	↓			↓	↓																										
	355		↓	↓			↓	↓																										
	360		↓	↓			↓	↓																										
	365		↓	↓			↓	↓																										
	370		↓	↓			↓	↓																										
	375		↓	↓			↓	↓																										
	380		↓	↓			↓	↓																										
	385		↓	↓			↓	↓																										
	390		↓	↓			↓	↓																										
	395		↓	↓																														
	400		↓	↓																														

REMARKS

Sc Head tip: oxidized pyrite cubes <<1% scattered thru FeOx interval!

TW-13

HOLE NO. 41-13 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PM+M	MINERALIZATION II #	MINERALIZATION II PM+M	MINERALIZATION III #	MINERALIZATION III PM+M	MINERALIZATION IV #	MINERALIZATION IV PM+M	MINERALIZATION V #	MINERALIZATION V PM+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	405		07	21																													Feedback	
	410																																fault & weathered to 525 at only place evaluated Mo Mn and py	
	415																																	
	420																																	
	425																																	
	430																																	
	435																																	
	440																																	
	445																																	
	450																																	
	455																																	
	460																																	
	465																																	
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	490																																	
	495																																	
	500																																	
	505																																	
	510																																	
	515																																	
	520																																	
	525																																	
	530				57	12																												
	535																																	
	540																																	
	545																																	
	550																																	
	555																																	
	560				55	12																												
	565																																	
	570																																	
	575						50	15	59	41									01	71	19/3												first cobalt! purple	
	580																																	
	585																																	
	590																																	
	595																																	
	600																																TD	

TW-13

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 351
November 21, 1991
TW-13, 15, 16, 17

SANTA FE PACIFIC MINING INC.
Attn: Mr. Duncan Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 48 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
				20.66 opt		
1	TW-13 50-55	.006	415.0	4100.	15500.	25000.
2	TW-13 55-60	.006	>500.0*	230.	15500.	19500.
3	TW-13 75-80	.002	210.0	920.	5100.	8750.
4	TW-13 95-100	.016	>500.0*	1150.	30000.	8200.
5	TW-13 105-110	.002	78.0	680.	2800.	3400.
				28.65 opt		
6	TW-13 110-115	<.002	15.0	95.	780.	720.
7	TW-15 125-130	<.002	.8	14.	55.	140.
8	TW-15 130-135	<.002	.5	12.	50.	60.
9	TW-15 135-140	<.002	.2	12.	30.	215.
10	TW-15 140-145	<.002	.6	12.	48.	85.
11	TW-15 145-150	<.002	.9	12.	34.	48.
12	TW-15 165-170	<.002	.3	10.	42.	85.
13	TW-15 170-175	<.002	.4	10.	36.	46.
14	TW-15 175-180	<.002	.5	10.	32.	165.
15	TW-15 180-185	<.002	.8	8.	20.	65.
16	TW-16 10-15	<.002	2.3	32.	155.	255.
17	TW-16 15-20	.002	54.0	295.	2600.	3300.
18	TW-16 20-25	.006	21.0	160.	640.	1050.
19	TW-16 95-100	.008	11.0	435.	1600.	3250.
20	TW-16 100-105	<.002	18.0	400.	530.	3500.
21	TW-16 105-110	<.002	62.0	320.	1100.	2500.
22	TW-16 110-115	<.002	13.0	340.	1350.	2300.
23	TW-16 115-120	.002	16.0	180.	630.	1550.
24	TW-16 120-125	<.002	12.0	295.	860.	1300.
25	TW-16 125-130	.002	3.7	230.	465.	1250.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 357
December 9, 1991
TW-13 (0 TO 600)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 39 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-13 0-5	.002	41.00	1250.	6300.	11000.
2	TW-13 5-10	.002	13.00	175.	730.	1450.
3	TW-13 10-15	.002	13.00	160.	460.	1050.
4	TW-13 15-20	.002	25.00	680.	5550.	7900.
5	TW-13 20-25	.002	78.00	600.	3200.	4350.
6	TW-13 25-30	<.002	16.00	180.	740.	1200.
7	TW-13 30-35	<.002	5.10	125.	230.	460.
8	TW-13 35-40	<.002	3.90	65.	105.	480.
9	TW-13 40-45	<.002	9.80	90.	260.	5550.
10	TW-13 45-50	.002	67.00	1350.	6700.	17500.
11	TW-13 115-120	<.002	17.00	210.	620.	600.
12	TW-13 120-125	<.002	18.00	170.	520.	940.
13	TW-13 125-130	<.002	28.00	560.	1100.	1850.
14	TW-13 130-135	<.002	19.00	750.	930.	1450.
15	TW-13 135-140	<.002	8.10	145.	155.	290.
16	TW-13 180-185	<.002	3.00	50.	70.	100.
17	TW-13 185-190	<.002	7.80	38.	405.	405.
18	TW-13 190-195	<.002	7.20	30.	325.	310.
19	TW-13 195-200	<.002	5.80	105.	430.	640.
20	TW-13 200-205	<.002	8.60	40.	180.	335.
21	TW-13 205-210	<.002	3.30	190.	195.	365.
22	TW-13 210-215	<.002	12.00	85.	370.	640.
23	TW-13 215-220	<.002	3.40	60.	200.	315.
24	TW-13 220-225	<.002	7.80	175.	540.	850.
25	TW-13 225-230	<.002	2.80	30.	48.	195.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 357
December 9, 1991

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	TW-13 230-235	<.002	6.60	135.	580.	425.
27	TW-13 235-240	<.002	2.20	65.	115.	75.
28	TW-13 265-270	<.002	1.60	22.	36.	65.
29	TW-13 280-285	<.002	1.10	4.	16.	16.
30	TW-13 320-325	<.002	.50	8.	16.	26.
31	TW-13 345-350	<.002	.90	55.	34.	65.
32	TW-13 370-375	<.002	.60	8.	16.	38.
33	TW-13 380-385	<.002	.80	20.	30.	38.
34	TW-13 570-575	<.002	1.30	4.	18.	44.
35	TW-13 575-580	<.002	.20	10.	18.	42.
36	TW-13 580-585	<.002	.20	6.	16.	48.
37	TW-13 585-590	<.002	.30	6.	28.	90.
38	TW-13 590-595	<.002	.20	6.	14.	36.
39	TW-13 595-600	<.002	1.20	10.	14.	44.

REGISTERED ASSAYER
CERTIFICATE NO.
9425
WILLIAM L. LEHMBECK
SIGNED

William L. Lehmbeck
Manager

R.C. DRILL HOLE
TW-14

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO TW-14 DATE STARTED 11/3/91 COMPLETED 11/4 COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT Wedge LOGGED BY MDR T.D. 600' INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 9,902 X(E) 8,680 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I P+M	II #	II P+M	III #	III P+M	IV #	IV P+M	V #	V P+M	VI #	VI P+M	VII #	VII P+M	TOTAL	MINERALIZATION I #	I P+M	II #	II P+M	III #	III P+M	IV #	IV P+M	V #	V P+M	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	0-5		09	21	54	14	55	13																									Abrupt to limestone & shaly limestone	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40								57	12																								
	45																																	
	50																																	
	55																																	
	60																																	
	65					22																												
	70																																	
	75																																	
	80					14																												
	85																																	
	90																																	
	95																																	
	100																																	
	105																																	
	110																																	
	115					51																												
	120					22																												
	125																																	
	130																																	
	135																																	
	140																																	
	145																																	
	150																																	
	155																																	
	160					14																												
	165																																	
	170						55	12																										
	175																																	
	180																																	
	185																																	
	190																																	
	195																																	
	200																																	

TW-14

HOLE NO W-14 DATE STARTED ___ COMPLETED ___ COLLAR ELEVATION ___ TYPE DRILL ___ BIT SIZE ___

PROJECT ___ LOGGED BY ___ T.D. ___ INCLINATION ___ BEARING ___ CONTRACTOR ___

COORDINATES Y(N) ___ X(E) ___ DRIFT SURVEY INTERVAL ___ CONDUCTED BY ___

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I H+M	ALTERATION II #	ALTERATION II H+M	ALTERATION III #	ALTERATION III H+M	ALTERATION IV #	ALTERATION IV H+M	ALTERATION V #	ALTERATION V H+M	ALTERATION VI #	ALTERATION VI H+M	ALTERATION VII #	ALTERATION VII H+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I R+M	MINERALIZATION II #	MINERALIZATION II R+M	MINERALIZATION III #	MINERALIZATION III R+M	MINERALIZATION IV #	MINERALIZATION IV R+M	MINERALIZATION V #	MINERALIZATION V R+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		09	21	64	12																											Abrupt bo	
	210																																	
	215																																	
	220																																	
	225				57	12																												
	230																																	
	235																																	
	240																																	
	245																																	
	250																																	
	255																																	
	260																																	
	265					22																										only weak pitchy limonite in epidote alteration, possible vesuvianite	
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295																																	
	300																																	
	305																																	
	310																																	
	315																																	
	320																																	
	325																																	
	330																																	
	335																																	
	340																																	
	345																																	
	350																																	
	355																																	
	360				64	14																												
	365																																	
	370																																	
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																	

TW-14

HOLE NO TW-14 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I-M	ALTERATION II #	ALTERATION II I-M	ALTERATION III #	ALTERATION III I-M	ALTERATION IV #	ALTERATION IV I-M	ALTERATION V #	ALTERATION V I-M	ALTERATION VI #	ALTERATION VI I-M	ALTERATION VII #	ALTERATION VII I-M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I P-M	MINERALIZATION II #	MINERALIZATION II P-M	MINERALIZATION III #	MINERALIZATION III P-M	MINERALIZATION IV #	MINERALIZATION IV P-M	MINERALIZATION V #	MINERALIZATION V P-M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	405		07	21	54	14																											Abrico 4	
	410		↓	↓	↓	↓																												
	415		↓	↓	↓	22																												
	420		↓	↓	↓	↓																												
	425		↓	↓	↓	↓																												
	430		↓	↓	↓	↓																												
	435		↓	↓	↓	↓																												
	440		↓	↓	↓	14																												
	445		↓	↓	↓	↓																												
	450		↓	↓	↓	↓																												
	455		↓	↓	↓	↓																												
	460		↓	↓	↓	↓																												
	465		↓	↓	↓	↓																												
	470		↓	↓	↓	22																												
	475		↓	↓	↓	↓																												
	480		↓	↓	↓	↓																												
	485		↓	↓	↓	↓																												
	490		↓	↓	↓	14																												
	495		↓	↓	↓	↓																												
	500		↓	↓	↓	↓																												
	505		↓	↓	↓	↓																												
	510		↓	↓	↓	↓																												
	515		↓	↓	↓	↓																												
	520		↓	↓	↓	↓																												
	525		↓	↓	↓	↓																												
	530		↓	↓	↓	↓																												
	535		↓	↓	↓	↓																												
	540		↓	↓	↓	↓													11	71	100													
	545		↓	↓	↓	↓													↓	↓	↓													
	550		↓	↓	↓	↓													↓	↓	↓													
	555		↓	↓	↓	22																												
	560		↓	↓	↓	↓																												
	565		↓	24	↓	14	55	12											11	71	100													
	570		↓	↓	↓	↓	↓	↓											↓	↓	↓													
	575		↓	↓	↓	↓	↓	↓											↓	↓	↓													
	580		↓	↓	↓	↓	↓	↓	57	22									↓	↓	↓													
	585		↓	↓	↓	↓	↓	↓	↓	↓									↓	↓	↓													
	590		↓	↓	↓	↓	↓	↓	↓	↓									↓	↓	↓													
	595		↓	↓	↓	↓	↓	↓	↓										↓	↓	↓													
	600		↓	↓	↓	↓	↓	↓											↓	↓	↓												80	

TW-14

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 358
December 9, 1991
TW-14 (50 TO 600)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 34 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-14 50-55	<.002	1.6	12.	30.	90.
2	TW-14 55-60	<.002	3.1	42.	65.	215.
3	TW-14 60-65	<.002	65.0	435.	1450.	2300.
4	TW-14 65-70	<.002	11.0	70.	275.	680.
5	TW-14 70-75	.006	11.0	115.	360.	540.
6	TW-14 75-80	<.002	8.9	55.	125.	220.
7	TW-14 115-120	<.002	4.6	55.	120.	300.
8	TW-14 120-125	<.002	24.0	180.	1500.	2550.
9	TW-14 125-130	.008	47.0	220.	1400.	1550.
10	TW-14 130-135	.010	120.0	480.	2100.	2700.
11	TW-14 135-140	.012	200.0	570.	2000.	2450.
12	TW-14 140-145	.006	115.0	350.	1700.	1900.
13	TW-14 145-150	.002	140.0	1100.	3700.	5400.
14	TW-14 150-155	<.002	60.0	320.	1100.	2000.
15	TW-14 155-160	<.002	16.0	130.	460.	680.
16	TW-14 165-170	.002	3.5	65.	100.	195.
17	TW-14 410-415	.002	23.0	350.	860.	1950.
18	TW-14 415-420	<.002	24.0	245.	590.	1500.
19	TW-14 420-425	<.002	21.0	280.	460.	880.
20	TW-14 425-430	<.002	19.0	315.	210.	550.
21	TW-14 430-435	<.002	14.0	340.	260.	810.
22	TW-14 465-470	<.002	9.6	285.	3550.	4450.
23	TW-14 470-475	<.002	8.9	135.	1800.	3050.
24	TW-14 475-480	.002	24.0	990.	5950.	8000.
25	TW-14 480-485	<.002	16.0	340.	1850.	2500.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 358
December 9, 1991

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	TW-14 485-490	<.002	5.7	48.	250.	1150.
27	TW-14 560-565	<.002	2.9	34.	95.	800.
28	TW-14 565-570	<.002	17.0	160.	480.	1600.
29	TW-14 570-575	<.002	12.0	560.	2500.	3000.
30	TW-14 575-580	<.002	32.0	135.	310.	2350.
31	TW-14 580-585	<.002	5.4	80.	105.	600.
32	TW-14 585-590	<.002	2.1	50.	40.	150.
33	TW-14 590-595	.002	5.2	30.	34.	305.
34	TW-14 595-600	<.002	4.6	50.	36.	210.

REGISTERED ASSAYER
CERTIFICATE NO.
9425
WILLIAM L.
LEHMBECK
ARIZONA

William L. Lehmbeck
Manager

R.C. DRILL HOLE
TW-15

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO - W-15 DATE STARTED 11/4/81 COMPLETED 11/5/ COLLAR ELEVATION ___ TYPE DRILL ___ BIT SIZE ___

PROJECT Window LOGGED BY [illegible] T.D. 600' INCLINATION Vert BEARING Vert CONTRACTOR Gardie

COORDINATES Y(N) 10,450 X(E) 8,680 DRIFT SURVEY INTERVAL n/a CONDUCTED BY n/a

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I H+M	II #	II H+M	III #	III H+M	IV #	IV H+M	V #	V H+M	VI #	VI H+M	VII #	VII H+M	MINERALIZATION TOTAL	I #	I R+M	II #	II R+M	III #	III R+M	IV #	IV R+M	V #	V R+M	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	0-5		07	21																													Rhyolite tuff (?)	
	10			33																														
	15																																	
	20			21																														
	25																																	
	30																																	
	35																																	
	40																																	
	45																																	
	50																																	
	55																																	
	60																																	
	65																																	
	70																																	
	75																																	
	80																																	
	85																																	
	90																																	
	95																																	
	100																																	
	105																																	
	110			25																													overprint for sticky clay fault (?) gouge	
	115																																	
	120																																	
	125																																	
	130		09	21	55	12																											Abrego: unit has distinct shaly character = Abrego (?) ss	
	135																																	
	140																																	
	145																																	
	150																																	
	155		00	00																														
	160																																	
	165																																	
	170		09	24																														
	175																		41	71	150													
	180				5	12																												
	185																																	
	190																																	
	195																																	
	200																																	

TW-15

HOLE NO. W-15 DATE STARTED ___ COMPLETED ___ COLLAR ELEVATION ___ TYPE DRILL ___ BIT SIZE ___

PROJECT ___ LOGGED BY ___ T.D. ___ INCLINATION ___ BEARING ___ CONTRACTOR ___

COORDINATES Y(N) ___ X(E) ___ DRIFT SURVEY INTERVAL ___ CONDUCTED BY ___

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PHM	MINERALIZATION II #	MINERALIZATION II PHM	MINERALIZATION III #	MINERALIZATION III PHM	MINERALIZATION IV #	MINERALIZATION IV PHM	MINERALIZATION V #	MINERALIZATION V PHM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		09	21																													Above 1.0 (?)	
	210		1	1	55	12																												
	215		1	1	1	1	55	12																										
	220		1	1	1	1																												
	225		1	1	1	1																												
	230		1	1	1	1																												
	235		1	↓	1	1																												
	240		1	21	↓	↓																												
	245		1	1																														
	250		1	1																														
	255		1	↓																														
	260		1	21																														
	265		1	1																														
	270		1	1																														
	275		1	1																														
	280		1	1																														
	285		1	1																														
	290		1	1																														
	295		1	1																														
	300		1	1																														
	305		1	1																														
	310		1	1																														
	315		1	1																														
	320		1	1																														
	325		1	1																														
	330		1	1															41	71	15/3												fresh biotite, epidote or assoc. alteration	
	335		1	1															1	1	1													
	340		1	1															1	1	1													
	345		1	↓															1	1	1													
	350		1	29															↓	↓	↓													
	355		1	1																														
	360		1	1																														
	365		1	1																														
	370		1	1																														
	375		1	↓																														
	380		1	21																														
	385		1	1																														
	390		1	1																														
	395		1	1																														
	400		1	1																														
			↓	↓																														

TW-15

HOLE NO. TW-15 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I RM	II #	II RM	III #	III RM	IV #	IV RM	V #	V RM	VI #	VI RM	VII #	VII RM	MINERALIZATION TOTAL	I #	I RM	II #	II RM	III #	III RM	IV #	IV RM	V #	V RM	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	405		59	2'																													Always to (?)	
	410																																	
	415																																Trace Unlock dendrite & trace disc. cutted by 400 - 500	
	420																																	
	425				55	12																												
	430																																	
	435																																	
	440																																	
	445																																	
	450																																	
	455																		<1	71	10%													
	460																																	
	465																																	
	470																																	
	475																																	
	480																																	
	485																																	
	490																																	
	495																																	
	500																																	
	505																																	
	510																																	
	515																																	
	520																																	
	525																																	
	530				59	11	55	12																										
	535																																	
	540																																	
	545																																	
	550					71		22																										
	555					6		6																										
	560					11		12																										
	565																																	
	570								57	21																								
	575																																	
	580																																	
	585																		<1	71	10%													
	590																																	
	595																																	
	600																																700	

TW-15

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 359
December 9, 1991
TW-15 (100 TO 600)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 19 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-15 100-105	<.002	.5	<2.	12.	100.
2	TW-15 105-110	<.002	.3	<2.	26.	50.
3	TW-15 110-115	<.002	.2	6.	30.	40.
4	TW-15 115-120	<.002	.2	8.	36.	215.
5	TW-15 120-125	<.002	.3	4.	26.	150.
6	TW-15 530-535	<.002	4.7	8.	26.	60.
7	TW-15 535-540	<.002	9.8	120.	95.	235.
8	TW-15 540-545	<.002	7.9	170.	340.	700.
9	TW-15 545-550	.012	36.0	230.	880.	1250.
10	TW-15 550-555	.026	78.0	360.	1350.	1850.
11	TW-15 555-560	.016	54.0	380.	1500.	2600.
12	TW-15 560-565	<.002	16.0	100.	170.	690.
13	TW-15 565-570	<.002	10.0	12.	32.	195.
14	TW-15 570-575	.008	13.0	250.	650.	960.
15	TW-15 575-580	.002	9.8	160.	630.	1150.
16	TW-15 580-585	.006	1.9	16.	30.	150.
17	TW-15 585-590	.008	7.9	290.	1350.	1950.
18	TW-15 590-595	<.002	5.2	300.	2000.	3100.
19	TW-15 595-600	<.002	6.9	40.	170.	570.

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK ARIZONA

William L. Lehmbeck
Manager

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 351
November 21, 1991
TW-13, 15, 16, 17

SANTA FE PACIFIC MINING INC.
Attn: Mr. Duncan Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 48 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-13 50-55	.006	415.0	4100.	15500.	25000.
2	TW-13 55-60	.006	>500.0*	230.	15500.	19500.
3	TW-13 75-80	.002	210.0	920.	5100.	8750.
4	TW-13 95-100	.016	>500.0*	1150.	30000.	8200.
5	TW-13 105-110	.002	78.0	680.	2800.	3400.
6	TW-13 110-115	<.002	15.0	95.	780.	720.
7	TW-15 125-130	<.002	.8	14.	55.	140.
8	TW-15 130-135	<.002	.5	12.	50.	60.
9	TW-15 135-140	<.002	.2	12.	30.	215.
10	TW-15 140-145	<.002	.6	12.	48.	85.
11	TW-15 145-150	<.002	.9	12.	34.	48.
12	TW-15 165-170	<.002	.3	10.	42.	85.
13	TW-15 170-175	<.002	.4	10.	36.	46.
14	TW-15 175-180	<.002	.5	10.	32.	165.
15	TW-15 180-185	<.002	.8	8.	20.	65.
16	TW-16 10-15	<.002	2.3	32.	155.	255.
17	TW-16 15-20	.002	54.0	295.	2600.	3300.
18	TW-16 20-25	.006	21.0	160.	640.	1050.
19	TW-16 95-100	.008	11.0	435.	1600.	3250.
20	TW-16 100-105	<.002	18.0	400.	530.	3500.
21	TW-16 105-110	<.002	62.0	320.	1100.	2500.
22	TW-16 110-115	<.002	13.0	340.	1350.	2300.
23	TW-16 115-120	.002	16.0	180.	630.	1550.
24	TW-16 120-125	<.002	12.0	295.	860.	1300.
25	TW-16 125-130	.002	3.7	230.	465.	1250.

R.C. DRILL HOLE
TW-16

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO. TW-16 DATE STARTED 11/7/91 COMPLETED 11/71 COLLAR ELEVATION ___ TYPE DRILL RC BIT SIZE ___

PROJECT Wrdna LOGGED BY [illegible] T.D. 600' INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 10,005 X(E) 8,860 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I PPM	II #	II PPM	III #	III PPM	IV #	IV PPM	V #	V PPM	VI #	VI PPM	VII #	VII PPM	MINERALIZATION TOTAL	I #	I PPM	II #	II PPM	III #	III PPM	IV #	IV PPM	V #	V PPM	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	0-5		07	71	54	14																											Excellent ks	
	10		1	1	1	1																												
	15		1	1	1	1																												
	20		1	1	1	32																												
	25		1	1	1	19																												
	30		1	1	1	1																												
	35		1	1	1	1																												
	40		1	1	1	1																												
	45		1	1	1	1																												
	50		1	1	1	1																												
	55		1	1	1	1																												
	60		1	1	1	1																												
	65		1	1	1	1																												
	70		1	1	1	1																												
	75		1	1	1	1																												
	80		1	1	54	14																												
	85		1	1	1	1																												
	90		1	1	1	1																												
	95		1	1	1	1	53	22	53	21																							Interval of mod extra veining to low or HCl reaction	
	100		1	1	1	1	1	1	1	1																								
	105				1	1	1	1	1	1																								
	110				1	1	1	1	1	1																								
	115				1	1	1	1	1	1																								
	120				1	1	1	1	1	1																								
	125				1	1	1	1	1	1																								
	130				1	1	1	1	1	1																								
	135				1	1	1	1	1	1																								
	140				1	1	1	12	1	11																								
	145				1	1	1	1	1	1																								
	150				1	1	1	1	1	1																								
	155				1	1	1	1	1	1																								
	160				1	1	1	1	1	1																								
	165				1	1	1	1	1	1																								
	170				1	1	1	1	1	1																								
	175				1	1	1	1	1	1																								
	180				1	1	1	1	1	1																								
	185				1	1	1	1	1	1																								
	190				1	1	1	1	1	1																								
	195				1	1	1	1	1	1																								
	200																																	

TW-16

HOLE NO. TW-16 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I HM	ALTERATION II #	ALTERATION II HM	ALTERATION III #	ALTERATION III HM	ALTERATION IV #	ALTERATION IV HM	ALTERATION V #	ALTERATION V HM	ALTERATION VI #	ALTERATION VI HM	ALTERATION VII #	ALTERATION VII HM	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PHM	MINERALIZATION II #	MINERALIZATION II PHM	MINERALIZATION III #	MINERALIZATION III PHM	MINERALIZATION IV #	MINERALIZATION IV PHM	MINERALIZATION V #	MINERALIZATION V PHM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		77	21																													Excelsior 1.3	
	210				56	22																												
	215																																	
	220																																	
	225																																	
	230																																	
	235																																	
	240																																	
	245																																	
	250																																	
	255				56	22													<1	71	15													
	260																																	
	265				56	22																												
	270																		<1	71	15													
	275																																	
	280																																	
	285																																	
	290				56	22																												
	295																																	
	300																																	
	305																																	
	310																																	
	315																																	
	320																																	
	325				59	14																												
	330																																	
	335																																	
	340																																	
	345																																	
	350				57	12	59	14											<1	71	15													
	355																																	
	360																																	
	365			30																														
	370				55	22																												
	375																																	
	380																																	
	385																																	
	390																																	
	395			21																														
	400																																	

TW-16

HOLE NO 16 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I RHM	MINERALIZATION II #	MINERALIZATION II RHM	MINERALIZATION III #	MINERALIZATION III RHM	MINERALIZATION IV #	MINERALIZATION IV RHM	MINERALIZATION V #	MINERALIZATION V RHM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	405		07	21																													Excelsior	
	410																																	
	415																																	
	420																																	
	425																																	
	430																																	
	435																																	
	440				57	12																												
	445																																	
	450																																	
	455																																	
	460																																	
	465																																	
	470																																	
	475																																	
	480																																	
	485																																	
	490																																	
	495																																	
	500																																	
	505																																	
	510																																	
	515																																	
	520																																	
	525																																	
	530																																	
	535																																	
	540																																	
	545																																	
	550				64	21	28	17																										
	555																																	
	560																																	
	565																																	
	570						54	141																										
	575		57	12																														
	580																																	
	585																																	
	590																																	
	595																																	
	600																																TD	

Increase heavy pyr in weakly sheared section

TW-16

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 360
December 9, 1991
TW-16 (0 TO 140)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 12 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-16 0-5	<.002	1.3	24.	100.	115.
2	TW-16 5-10	<.002	2.2	24.	125.	230.
3	TW-16 25-30	.002	2.2	10.	65.	155.
4	TW-16 30-35	<.002	1.1	4.	30.	105.
5	TW-16 35-40	<.002	1.2	2.	24.	100.
6	TW-16 40-45	<.002	1.2	4.	65.	90.
7	TW-16 45-50	<.002	1.1	<2.	14.	48.
8	TW-16 80-85	<.002	8.5	20.	170.	345.
9	TW-16 85-90	<.002	12.0	55.	280.	720.
10	TW-16 90-95	.004	24.0	355.	1250.	2450.
11	TW-16 130-135	<.002	3.3	135.	350.	1150.
12	TW-16 135-140	<.002	3.6	34.	220.	900.

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK ARIZONA, U.S.A.

William L. Lehmbeck
Manager

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 351
November 21, 1991
TW-13, 15, 16, 17

SANTA FE PACIFIC MINING INC.
Attn: Mr. Duncan Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 48 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-13 50-55	.006	415.0	4100.	15500.	25000.
2	TW-13 55-60	.006	>500.0*	230.	15500.	19500.
3	TW-13 75-80	.002	210.0	920.	5100.	8750.
4	TW-13 95-100	.016	>500.0*	1150.	30000.	8200.
5	TW-13 105-110	.002	78.0	680.	2800.	3400.
6	TW-13 110-115	<.002	15.0	95.	780.	720.
7	TW-15 125-130	<.002	.8	14.	55.	140.
8	TW-15 130-135	<.002	.5	12.	50.	60.
9	TW-15 135-140	<.002	.2	12.	30.	215.
10	TW-15 140-145	<.002	.6	12.	48.	85.
11	TW-15 145-150	<.002	.9	12.	34.	48.
12	TW-15 165-170	<.002	.3	10.	42.	85.
13	TW-15 170-175	<.002	.4	10.	36.	46.
14	TW-15 175-180	<.002	.5	10.	32.	165.
15	TW-15 180-185	<.002	.8	8.	20.	65.
16	TW-16 10-15	<.002	2.3	32.	155.	255.
17	TW-16 15-20	.002	54.0	295.	2600.	3300.
18	TW-16 20-25	.006	21.0	160.	640.	1050.
19	TW-16 95-100	.008	11.0	435.	1600.	3250.
20	TW-16 100-105	<.002	18.0	400.	530.	3500.
21	TW-16 105-110	<.002	62.0	320.	1100.	2500.
22	TW-16 110-115	<.002	13.0	340.	1350.	2300.
23	TW-16 115-120	.002	16.0	180.	630.	1550.
24	TW-16 120-125	<.002	12.0	295.	860.	1300.
25	TW-16 125-130	.002	3.7	230.	465.	1250.

R.C. DRILL HOLE
TW-17

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

PAGE [illegible] OF 3

HOLE NO. V-17 DATE STARTED 11/6/91 COMPLETED 11/6/91 COLLAR ELEVATION _____ TYPE DRILL [illegible] BIT SIZE _____

PROJECT Windage LOGGED BY [illegible] T.D. 200 INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 9,960 X(E) 8,790 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I HM	II #	II HM	III #	III HM	IV #	IV HM	V #	V HM	VI #	VI HM	VII #	VII HM	MINERALIZATION TOTAL	I #	I PPM	II #	II PPM	III #	III PPM	IV #	IV PPM	V #	V PPM	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	0.5		07	21																													Excavation in partially containing fault slivers of Abrigo	
	10																																	
	15																																	
	20																																	
	25				53	14																												
	30																																	
	35																																	
	40																																	
	45																																	
	50						57	12											<1	71	13													
	55																																	
	60																																	
	65						24																											
	70																																	
	75																																	
	80																																	
	85																																	
	90																																	
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	100																																	
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	110																																	
	115						14																											
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	130																																	
	135								22																									
	140																																	
	145																																	
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	155																																	
	160																																	
	165																																possible tiny Mobe Au	
	170																																	
	175																																	
	180																																	
	185																																	
	190																																	
	195																																	
	200																																	

TW-17

HOLE NO. 1-17 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PPM	MINERALIZATION II #	MINERALIZATION II PPM	MINERALIZATION III #	MINERALIZATION III PPM	MINERALIZATION IV #	MINERALIZATION IV PPM	MINERALIZATION V #	MINERALIZATION V PPM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	205		07	21	54	14	57	22																										
	210					22																												
	215																																	
	220																																	
	225																																	
	230																																	
	235																																	
	240																																	
	245																																	
	250																																	
	255																																	
	260																																	
	265					14																												
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295					22																												
	300																																	
	305																																	
	310																																	
	315																																	
	320					14																												
	325																																	
	330																																	
	335																																	
	340																																	
	345																																	
	350																		41	7	150													
	355																																	
	360																																	
	365																																	
	370																																	
	375																																	
	380					22																												
	385																																	
	390																																	
	395																																	
	400																																	

TW-17

HOLE NO. TW-17 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I P+M	MINERALIZATION II #	MINERALIZATION II P+M	MINERALIZATION III #	MINERALIZATION III P+M	MINERALIZATION IV #	MINERALIZATION IV P+M	MINERALIZATION V #	MINERALIZATION V P+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	405		07	21	71	72	57	22																									Baseline 45	
	410		(	)	(	)	(	)																										
	415		(	)	(	)	(	)																										
	420		(	)	(	)	(	)																										
	425		(	)	(	)	(	)											81	71	10													
	430		(	)	(	)	(	)											(	(	(													
	435		(	)	↓		(	)											(	(	(													
	440		(	)	14		(	12											↓	↓	↓													
	445		(	)	(		(	)																										
	450		(	)	(		(	)																										
	455		(	)	↓		↓	(	)																									
	460		(	)				(	)																									
	465		(	)				(	)																									
	470		(	)				(	)																									
	475		(	)				(	)																									
	480		(	)				(	)																									
	485		(	)				(	)																									
	490		(	)				(	)																									
	495		(	)				(	)																									
	500		(	)				↓	)																									
	505		(	)				(	)																									
	510		(	)				(	)																									
	515		(	)				(	)																									
	520		(	)				(	)																									
	525		(	)				(	)																									
	530		(	)				(	)																									
	535		(	)				(	)																									
	540		(	)				(	)																									
	545		(	)				(	)																									
	550		(	)				(	)																									
	555		(	)				(	)																									
	560		(	)				(	)																									
	565		(	)				(	)																									
	570		(	)				(	)																									
	575		(	)				(	)																									
	580		(	)				(	)																									
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	590		(	)				(	)																									
	595		(	)				(	)																									
	600		(	)				↓	)																								TD	

TW-17

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 361
December 9, 1991
TW-17 (50 TO 440)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 41 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-17 50-55	.004	11.0	85.	460.	385.
2	TW-17 55-60	<.002	7.6	130.	180.	350.
3	TW-17 60-65	.016	59.0	510.	1450.	1650.
4	TW-17 65-70	.006	13.0	110.	205.	440.
5	TW-17 70-75	<.002	9.1	200.	425.	460.
6	TW-17 75-80	.002	1.5	18.	55.	110.
7	TW-17 80-85	.002	1.3	20.	34.	65.
8	TW-17 85-90	<.002	1.0	8.	20.	46.
9	TW-17 90-95	<.002	1.8	44.	85.	105.
10	TW-17 95-100	<.002	1.1	18.	26.	110.
11	TW-17 100-105	<.002	.9	8.	20.	44.
12	TW-17 105-110	<.002	1.2	6.	22.	38.
13	TW-17 110-115	<.002	.6	<2.	16.	18.
14	TW-17 115-120	<.002	.3	<2.	12.	90.
15	TW-17 120-125	<.002	.4	<2.	12.	22.
16	TW-17 125-130	<.002	.2	<2.	12.	16.
17	TW-17 150-155	<.002	5.3	22.	40.	90.
18	TW-17 155-160	<.002	.4	4.	8.	125.
19	TW-17 160-165	<.002	.3	<2.	10.	36.
20	TW-17 170-175	<.002	.4	2.	14.	18.
21	TW-17 175-180	<.002	.3	8.	20.	145.
22	TW-17 180-185	<.002	.3	10.	24.	46.
23	TW-17 185-190	<.002	.2	<2.	16.	32.
24	TW-17 305-310	<.002	34.0	205.	370.	1400.
25	TW-17 310-315	<.002	23.0	345.	760.	1900.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 351
November 21, 1991

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	TW-17 190-195	.002	.3	12.	24.	50.
27	TW-17 195-200	.002	1.4	44.	65.	145.
28	TW-17 200-205	.006	2.0	36.	60.	80.
29	TW-17 205-210	<.002	12.0	160.	250.	400.
30	TW-17 210-215	.004	7.9	48.	85.	175.
31	TW-17 215-220	.004	150.0	225.	1050.	1300.
32	TW-17 220-225	.026	225.0	315.	1300.	1650.
33	TW-17 225-230	.002	24.0	90.	350.	650.
34	TW-17 230-235	.002	12.0	50.	315.	430.
35	TW-17 235-240	.002	7.2	60.	150.	350.
36	TW-17 240-245	.006	20.0	16.81 opt 200.	610.	1250.
37	TW-17 245-250	.028	165.0	1600.	3150.	4850.
38	TW-17 250-255	.115	>500.0*	6400.	12000.	14000.
39	TW-17 255-260	.050	325.0	2900.	5000.	7000.
40	TW-17 260-265	.020	120.0	1100.	2100.	2800.
41	TW-17 265-270	.014	95.0	860.	1400.	1700.
42	TW-17 270-275	.008	50.0	480.	760.	910.
43	TW-17 275-280	.006	36.0	390.	530.	690.
44	TW-17 280-285	.004	25.0	235.	350.	450.
45	TW-17 285-290	.215	145.0	1650.	4400.	7600.
46	TW-17 290-295	.105	100.0	1450.	4800.	18000.
47	TW-17 295-300	.022	160.0	1200.	3300.	8900.
48	TW-17 300-305	.006	58.0	445.	870.	4000.

*NOTE: Greater than normal geochemical range.
Please advise if fire assay is needed.

cc: Mr. Fred Jenkins

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 361
December 9, 1991

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	TW-17 315-320	.016	44.0	650.	1850.	3500.
27	TW-17 320-325	<.002	5.6	32.	80.	220.
28	TW-17 325-330	<.002	1.6	16.	46.	85.
29	TW-17 330-335	<.002	2.4	10.	24.	70.
30	TW-17 380-385	.004	300.0	1550.	1300.	3050.
31	TW-17 385-390	.002	190.0	1750.	3850.	7950.
32	TW-17 390-395	<.002	9.6	165.	440.	760.
33	TW-17 395-400	<.002	8.9	175.	225.	890.
34	TW-17 400-405	<.002	4.1	180.	110.	380.
35	TW-17 405-410	.002	19.0	600.	520.	2800.
36	TW-17 410-415	.006	40.0	740.	1450.	4700.
37	TW-17 415-420	.002	46.0	355.	680.	2600.
38	TW-17 420-425	<.002	26.0	235.	1100.	2200.
39	TW-17 425-430	<.002	54.0	340.	770.	4000.
40	TW-17 430-435	.002	46.0	395.	2500.	3450.
41	TW-17 435-440	<.002	16.0	345.	340.	1900.

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK ARIZONA U.S.A.

William L. Lehmbeck
Manager

R.C. DRILL HOLE
TW-18

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO TW-18 DATE STARTED 14 Jan 92 COMPLETED 15 Jan 92 COLLAR ELEVATION 4735 TYPE DRILL RC BIT SIZE "

PROJECT Tombstone Wedge LOGGED BY WDR T.D. 500' INCLINATION Vert BEARING Vert CONTRACTOR Gustin

COORDINATES Y(N) 9885 N X(E) 8975 E DRIFT SURVEY INTERVAL CONDUCTED BY

RECOVERY	DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I %	II #	II %	III #	III %	IV #	IV %	V #	V %	VI #	VI %	VII #	VII %	MINERALIZATION TOTAL	I #	I %	II #	II %	III #	III %	IV #	IV %	V #	V %	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
	0-5		07	21																													Escabrosa la: tan to tannish gray: oxidized to 285'. Contains minute amounts of finely disem limonite after py and v rare tiny specks of MnOx to 285'	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40																																	
	45				52	22	56	22	51	11																								
	50																																	
	55																																	
	60																																	
	65																																	
	70																																	
	75																																	
	80																																	
	85																																unoxidized interval - la is medium gray	
	90																																	
	95																																	
	100																																	
	105																																	
	110																																	
	115																																	
	120																																	
	125																																	
	130																																	
	135																																	
	140				52	22	56	22	51	11																								
	145																																	
	150																																	
	155																																	
	160																																	
	165																																	
	170																																	
	175																																	
	180																																	
	185																																	
	190																																	
	195																																	
	200																																	

TW-18

PAGE 2 OF 3

HOLE NO TW 18 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I H+M	ALTERATION II #	ALTERATION II H+M	ALTERATION III #	ALTERATION III H+M	ALTERATION IV #	ALTERATION IV H+M	ALTERATION V #	ALTERATION V H+M	ALTERATION VI #	ALTERATION VI H+M	ALTERATION VII #	ALTERATION VII H+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I R+M	MINERALIZATION II #	MINERALIZATION II R+M	MINERALIZATION III #	MINERALIZATION III R+M	MINERALIZATION IV #	MINERALIZATION IV R+M	MINERALIZATION V #	MINERALIZATION V R+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	200-205		07	21																													Escabrosa La (cont)	
	210																																	
	215																																	
	220																																	
	225																																	
	230																																	
	235																																	
	240																																	
	245																																	
	250																																	
	255																																	
	260																																	
	265																																	
	270																																	
	275																																	
	280																																Oxidation boundary: downhole la u mod. to dark grey; scatter minute accounts of v. fa ge py and very rare spots of MnOx unless otherwise noted	
	285																																	
	290																																	
	295																																	
	300																																	
	305																																	
	310																																	
	315																																	
	320																																	
	325																																	
	330																																	
	335																																	
	340																																	
	345																																	
	350				57	22	53	12	59	13									02	71	1-2 3											Epidote-silica alteration: mottled dark green calcite-epidote ± silica alteration up to 27 v. fa ge anhedral pyrite and weak spotty MnOx v rare hematite chips	
	355																																	
	360																																	
	365																																	
	370																																	
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																	

TW-18

HOLE NO TW-18 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I PPM	ALTERATION II #	ALTERATION II PPM	ALTERATION III #	ALTERATION III PPM	ALTERATION IV #	ALTERATION IV PPM	ALTERATION V #	ALTERATION V PPM	ALTERATION VI #	ALTERATION VI PPM	ALTERATION VII #	ALTERATION VII PPM	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PPM	MINERALIZATION II #	MINERALIZATION II PPM	MINERALIZATION III #	MINERALIZATION III PPM	MINERALIZATION IV #	MINERALIZATION IV PPM	MINERALIZATION V #	MINERALIZATION V PPM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	400-405		07	21	57	22	53	11	54	13									21	71	100													
	410																																	
	415																																	
	420																																	
	425																																	
	430					12																											
	435																																	
	440																																	
	445																																Shear front fairly abrupt	
	450																		Tr														Downhole is a tarnish gray; appears oxidized	
	455																																	
	460																																	
	465																																	
	470																																	
	475																																	
	480																																	
	485																																	
	490																																	
	495																																	
	500																																500' TD	

TW-18

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 363
January 22, 1992
PROJECT: TOMBSTONE WEDGE
TW-18 (345 TO 500)
PAGE 1 OF 1

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Gold and Silver Analysis of 17 Drill Cutting Samples, additional elements pending analysis.

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	FIRE ASSAY Ag (oz/t)
1	TW-18 345-350	<.002	<.01
2	TW-18 355-360	<.002	<.01
3	TW-18 365-370	<.002	<.01
4	TW-18 375-380	<.002	.17
5	TW-18 385-390	<.002	<.01
6	TW-18 395-400	<.002	<.01
7	TW-18 405-410	<.002	.07
8	TW-18 415-420	<.002	<.01
9	TW-18 425-430	<.002	.02
10	TW-18 435-440	<.002	<.01
11	TW-18 445-450	<.002	<.01
12	TW-18 450-455	<.002	<.01
13	TW-18 455-460	<.002	<.01
14	TW-18 465-470	<.002	<.01
15	TW-18 475-480	<.002	<.01
16	TW-18 485-490	<.002	<.01
17	TW-18 495-500	<.002	.13

William L. Lehmbeck
Manager

R.C. DRILL HOLE
TW-19

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code		Feature Code		Alteration Code		Intensity Code		Mineralization Code		Structure Code	
00	Caverns/mine workings	21	limestone	51	calcite	1	Weak	71	pyrite	01	bedding
01	Alluvium	22	porphyritic andesite	52	clay	2	Moderate	72	galena	02	breccia
02	Bisbee Fm	23	mudstone/shale	53	silica	3	Strong	73	sphalerite	03	gouge
03	Epitaph Dol	24	limey mudstone/shale	54	MnOx			74	lead oxides	04	veins
04	Colina Ls	25	gouge	55	FeOx						
05	Earp Fm	26	breccia	56	bleaching		**Mode Code**				
06	Horquilla Ls	27	marble	57	epidote						
07	Escabrosa Ls	28	limey sandstone	58	pink calcite	1	Vein/veinlet				
08	Martin Ls	29	quartzite			2	Flooding/Pervasive				
09	Abrigo Ls	30	sandstone			3	Disseminated				
10	Bolsa Qtzite	31	MnOx			4	Dendritic				
11	Inter/Mafic Dikes	32	porphyritic intermediate dike rock			5	Joint coatings				
12	Fault zone	33	chert			6	Blebs				
13	Feldspar porphyry	34	siltstone								
		35	dolomite								
		36	conglomerate								
		37	vuggy limestone								
		38	feldspar porphyry								
		39	dolomitic limestone								

HOLE NO TW-19 DATE STARTED 15 Jan 92 COMPLETED 16 Jan COLLAR ELEVATION 4735 TYPE DRILL RC trac BIT SIZE -
PROJECT Tombstone Wedge LOGGED BY WRK T.D. 500' INCLINATION -70° BEARING 270° CONTRACTOR Quality Cap
COORDINATES Y(N) 9885 X(E) 8925 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I %	MINERALIZATION II #	MINERALIZATION II %	MINERALIZATION III #	MINERALIZATION III %	MINERALIZATION IV #	MINERALIZATION IV %	MINERALIZATION V #	MINERALIZATION V %	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	0-5		07	21	52	22																											Fecobrown la: oxidized & clayey to 65' light tan to light tarnish gray contains trace pyrite and trace to rare Mnox throughout unless otherwise noted	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40																																	
	45																																	
	50																																	
	55																																	
	60																																	
	65																																Bottom of oxidized zone; downhole la is medium to dark gray; trace py is still oxidized to limonite specks	
	70				55	22																												
	75																																	
	80																																	
	85																																	
	90																																	
	95																																	
	100																																	
	105																																	
	110				52	22																												
	115																																	
	120																																	
	125																																	
	130																																	
	135																																	
	140																																	
	145																																	
	150																																	
	155																																	
	160				54	13	54	15																										
	165																																	
	170			27	53	32																											Abrupt change to snow white intervals; silicified mobile (?) - trace py & Mnox - no molybdenite or other sulfides identified	
	175																																	
	180																																	
	185																																	
	190																																	
	195																																	
	200			21																														

TW-19

HOLE NO TW-19 DATE STARTED _____ COMPLETED _____ DOLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I PPM	ALTERATION II #	ALTERATION II PPM	ALTERATION III #	ALTERATION III PPM	ALTERATION IV #	ALTERATION IV PPM	ALTERATION V #	ALTERATION V PPM	ALTERATION VI #	ALTERATION VI PPM	ALTERATION VII #	ALTERATION VII PPM	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PPM	MINERALIZATION II #	MINERALIZATION II PPM	MINERALIZATION III #	MINERALIZATION III PPM	MINERALIZATION IV #	MINERALIZATION IV PPM	MINERALIZATION V #	MINERALIZATION V PPM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	200-205		07	21																													Excabrasa ls medium to light gray w/ trace py & Mnox	
	210																																	
	215																																	
	220																																	
	225																																	
	230																																	
	235																																	
	240																																	
	245																																	
	250																																	
	255																																	
	260																																Abrupt change to tannish orange limey siltstone w/ some gray ls chips	
	265		09	24	54	14													01	71	PO 3													
	270																																	
	275																																	
	280																																	
	285																																	
	290																																	
	295																																	
	300																																medium greenish gray ls w/ no chely chips	
	305			21																														
	310																																	
	315																																	
	320				57	13																												
	325																																	
	330																																	
	335																																	
	340																																	
	345																																	
	350																																	
	355																																	
	360																																	
	365																																	
	370																																	
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																	

TW-19

PAGE 3 - 3

HOLE NO TW-19 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PPM	MINERALIZATION II #	MINERALIZATION II PPM	MINERALIZATION III #	MINERALIZATION III PPM	MINERALIZATION IV #	MINERALIZATION IV PPM	MINERALIZATION V #	MINERALIZATION V PPM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	R.Q.D.
	400-405		09	21																													
	-410		(	(																													
	415		(	↓																													
	420		(	24	54	13																											
	425		(	(	(	(																											
	430		(	(	(	(																											
	435		(	(	(	(																											
	440		(	(	(	↓													01	71	106												
	445		(	(	(	23													(	(	(												
	450		(	(	(	↓													(	(	(												
	455		(	(	(	13													(	(	(												
	460		(	(	(	↓													(	(	(												
	465		(	(	(	11													(	(	(												
	470		(	(	(	↓													↓	↓	↓												
	475		(	(	(	22																											
	480		(	(	(	11																											
	485		(	(	↓	↓																											
	490		(	(																													
	495		(	(																													
	500		↓	↓																													

REMARKS

Above has mixed gray limestone & reddish limey siltstone to 420'

gray & reddish brown limey siltstone and silty limestone to TD

500' TD

TW-19

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 364
January 24, 1992
PROJECT: TOMBSTONE WEDGE
TW-19 (255 TO 500)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 26 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-19 255-260 *	.000	.00	0.	0.	0.
2	TW-19 260-265	<.002	.59	70.	115.	170.
3	TW-19 265-270	<.002	<.01	14.	36.	46.
4	TW-19 270-275	<.002	<.01	24.	44.	75.
5	TW-19 275-280	<.002	.03	6.	24.	65.
6	TW-19 280-285	<.002	.14	26.	55.	210.
7	TW-19 285-290	<.002	.05	70.	135.	205.
8	TW-19 290-295	<.002	<.01	16.	28.	28.
9	TW-19 295-300	<.002	<.01	10.	30.	38.
10	TW-19 300-305	<.002	<.01	2.	16.	22.
11	TW-19 415-420	.006	<.01	36.	120.	170.
12	TW-19 420-425	<.002	<.01	135.	275.	395.
13	TW-19 425-430	<.002	<.01	16.	30.	75.
14	TW-19 430-435	<.002	<.01	16.	22.	70.
15	TW-19 435-440	<.002	<.01	16.	32.	125.
16	TW-19 440-445	<.002	.05	160.	140.	235.
17	TW-19 445-450	<.002	<.01	40.	55.	205.
18	TW-19 450-455	<.002	<.01	28.	60.	210.
19	TW-19 455-460	<.002	.10	95.	42.	135.
20	TW-19 460-465	<.002	.25	32.	24.	60.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 364
January 24, 1992

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
21	TW-19 465-470	<.002	.02	20.	22.	85.
22	TW-19 470-475	<.002	.75	160.	75.	375.
23	TW-19 475-480	.006	.30	260.	710.	900.
24	TW-19 480-485	<.002	<.01	55.	120.	420.
25	TW-19 485-490	.004	.15	185.	305.	500.
26	TW-19 490-495	<.002	<.01	28.	26.	400.
27	TW-19 495-500	<.002	<.01	26.	22.	395.

*NOTE: Sample not received.

REGISTERED ASSAYER
CERTIFICATE #
9425
WILLIAM L. LEHMBECK
ARIZONA

William L. Lehmbeck
Manager

R.C. DRILL HOLE
TW-20

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code		Feature Code		Alteration Code		Intensity Code		Mineralization Code		Structure Code	
00	Caverns/mine workings	21	limestone	51	calcite	1	Weak	71	pyrite	01	bedding
01	Alluvium	22	porphyritic andesite	52	clay	2	Moderate	72	galena	02	breccia
02	Bisbee Fm	23	mudstone/shale	53	silica	3	Strong	73	sphalerite	03	gouge
03	Epitaph Dol	24	limey mudstone/shale	54	MnOx			74	lead oxides	04	veins
04	Colina Ls	25	gouge	55	FeOx						
05	Earp Fm	26	breccia	56	bleaching		**Mode Code**				
06	Horquilla Ls	27	marble	57	epidote						
07	Escabrosa Ls	28	limey sandstone	58	pink calcite	1	Vein/veinlet				
08	Martin Ls	29	quartzite			2	Flooding/Pervasive				
09	Abrigo Ls	30	sandstone			3	Disseminated				
10	Bolsa Qtzite	31	MnOx			4	Dendritic				
11	Inter/Mafic Dikes	32	porphyritic intermediate dike rock			5	Joint coatings				
12	Fault zone	33	chert			6	Blebs				
13	Feldspar porphyry	34	siltstone								
		35	dolomite								
		36	conglomerate								
		37	vuggy limestone								
		38	feldspar porphyry								
		39	dolomitic limestone								

HOLE NO TW-20 DATE STARTED 16 Jan 92 COMPLETED 16 Jan 92 COLLAR ELEVATION 9735 TYPE DRILL RC track BIT SIZE -
PROJECT Tombstone Wedge LOGGED BY WDR T.D. 400' INCLINATION -58° BEARING N60W CONTRACTOR Gustin
COORDINATES Y(N) 9885 X(E) 8925 DRIFT SURVEY INTERVAL CONDUCTED BY

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PPM	MINERALIZATION II #	MINERALIZATION II PPM	MINERALIZATION III #	MINERALIZATION III PPM	MINERALIZATION IV #	MINERALIZATION IV PPM	MINERALIZATION V #	MINERALIZATION V PPM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	0-5		07	21	57	22																											Eschrosa limestone: light tan to light tannish grey, clayey oxidized limestone w/ trace py & MnOx throughout unless otherwise noted	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40																																	
	45																																	
	50																																	
	55																																	
	60																																	
	65																																	
	70																																	
	75																																	
	80																																	
	85																																	
	90																																	
	95																																	
	100				57	22																												
	105																																	
	110																																	
	115																																	
	120																																approximate bottom of zone of oxidation: below limestone is medium tannish grey	
	125																																	
	130																																	
	135																																	
	140																																	
	145																																	
	150																																	
	155				59	12																												
	160																																	
	165																																	
	170																																	
	175																																	
	180																																	
	185																																	
	190																																	
	195																																	
	200				56	22																												

TW-20

HOLE NO TW-20 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PPM	MINERALIZATION II #	MINERALIZATION II PPM	MINERALIZATION III #	MINERALIZATION III PPM	MINERALIZATION IV #	MINERALIZATION IV PPM	MINERALIZATION V #	MINERALIZATION V PPM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	RQD
	200-205		07	21	56	22																											Escabrosa ls: med gray ls w/ occasional intervals of med tarnish gray ls	
	210																																	
	215				54	22																												
	220					14																												
	225																																	
	230						56	22																										
	235																																	
	240					22																												
	245																																	
	250																																	
	255																																	
	260																																	
	265																																	
	270				54	22																											To weakly oxidized py	
	275				1	14																												
	280																																	
	285																																	
	290																																	
	295																																	
	300																																	
	305																																	
	310		09	24	57	22	55	15																									Abrigo ls (?) unit to TD shows mod-str epidote silica stockwork & unit TD is uncertain, however generally shaly nature and presence of stem suggest Abrigo	
	315																																	
	320																																	
	325						54	14																										
	330																																	
	335																																	
	340																																	
	345																																	
	350							24																									spotty x wk Abrigo dead to TD	
	355					32																												
	360																																	
	365																																	
	370																																	
	375																																	
	380																																	
	385					12																												
	390																																	
	395																																	
	400																																400' TD	

TW-20

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 365
January 24, 1992
PROJECT: TOMBSTONE WEDGE
TW-20 (150 TO 400)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 34 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-20 150-155	.002	.40	75.	165.	305.
2	TW-20 155-160	.004	1.70	340.	495.	980.
3	TW-20 160-165	.014	7.33	610.	550.	870.
4	TW-20 165-170	<.002	7.78	200.	405.	540.
5	TW-20 200-205	<.002	.31	42.	80.	315.
6	TW-20 205-210	<.002	.46	75.	270.	600.
7	TW-20 210-215	<.002	.50	60.	190.	395.
8	TW-20 215-220	.002	.22	55.	120.	265.
9	TW-20 220-225	<.002	.09	42.	130.	195.
10	TW-20 225-230	<.002	.05	24.	48.	125.
11	TW-20 230-235	<.002	.14	20.	75.	105.
12	TW-20 235-240	.006	.72	105.	260.	385.
13	TW-20 240-245	.002	.17	60.	105.	175.
14	TW-20 245-250	<.002	.36	100.	145.	250.
15	TW-20 260-265	<.002	.11	38.	90.	160.
16	TW-20 265-270	<.002	.12	48.	115.	190.
17	TW-20 270-275	<.002	.01	10.	34.	34.
18	TW-20 275-280	<.002	<.01	18.	75.	130.
19	TW-20 280-285	<.002	<.01	10.	38.	46.
20	TW-20 285-290	<.002	<.01	20.	26.	50.
21	TW-20 290-295	<.002	<.01	6.	18.	48.
22	TW-20 295-300	<.002	<.01	8.	18.	50.
23	TW-20 300-305	.004	.23	75.	46.	85.
24	TW-20 305-310	<.002	<.01	10.	16.	50.
25	TW-20 310-315	<.002	.04	4.	14.	40.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UJV 365
January 24, 1992

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	TW-20 315-320	<.002	.01	8.	16.	55.
27	TW-20 320-325	<.002	<.01	16.	22.	60.
28	TW-20 330-335	<.002	.02	38.	100.	200.
29	TW-20 340-345	.010	1.13	195.	470.	740.
30	TW-20 345-350	<.002	.16	28.	65.	115.
31	TW-20 360-365	<.002	<.01	4.	16.	20.
32	TW-20 370-375	<.002	<.01	10.	16.	24.
33	TW-20 380-385	<.002	<.01	18.	26.	36.
34	TW-20 395-400	<.002	<.01	42.	90.	185.

William L. Lehmbeck
Manager

R.C. DRILLHOLE
700-21

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO TW-21 DATE STARTED 17Jan92 COMPLETED 17Jan92 COLLAR ELEVATION 4735 TYPE DRILL Rc track BIT SIZE

PROJECT Tombstone Wedge LOGGED BY WDR T.D. 400' INCLINATION -70 BEARING 000° CONTRACTOR Gustin

COORDINATES Y(N) 9885 X(E) 8925 DRIFT SURVEY INTERVAL CONDUCTED BY

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I %	ALTERATION II #	ALTERATION II %	ALTERATION III #	ALTERATION III %	ALTERATION IV #	ALTERATION IV %	ALTERATION V #	ALTERATION V %	ALTERATION VI #	ALTERATION VI %	ALTERATION VII #	ALTERATION VII %	TOTAL	MINERALIZATION I #	MINERALIZATION I PPM	MINERALIZATION II #	MINERALIZATION II PPM	MINERALIZATION III #	MINERALIZATION III PPM	MINERALIZATION IV #	MINERALIZATION IV PPM	MINERALIZATION V #	MINERALIZATION V PPM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	RQD
	0-5		07	21	52	22	55	12																									Escabrosa limestone: strongly oxidized to yellowish tan clayey limestone to 100'	
	10																																	
	15																																	
	20																																	
	25																																	
	30																																	
	35																																	
	40																																	
	45																																	
	50																																	
	55																																	
	60																																	
	65																																	
	70																																	
	75																																	
	80																																	
	85																																	
	90																																	
	95																																	
	100																																medium gray massive limestone	
	105																																	
	110																																	
	115																																	
	120																																	
	125																																	
	130				54	14	52	22																									oxidized zone	
	135																																	
	140																																	
	145																																	
	150																																	
	155																																	
	160																																	
	165																																	
	170																																	
	175					24																												
	180					32																											several chips of solid MnOx	
	185					24																												
	190					14																												
	195					8																												
	200																																	

TW-21

HOLE NO TW-21 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I+M	ALTERATION II #	ALTERATION II I+M	ALTERATION III #	ALTERATION III I+M	ALTERATION IV #	ALTERATION IV I+M	ALTERATION V #	ALTERATION V I+M	ALTERATION VI #	ALTERATION VI I+M	ALTERATION VII #	ALTERATION VII I+M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I P+M	MINERALIZATION II #	MINERALIZATION II P+M	MINERALIZATION III #	MINERALIZATION III P+M	MINERALIZATION IV #	MINERALIZATION IV P+M	MINERALIZATION V #	MINERALIZATION V P+M	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	200-205		07	21																													Eocabrown limestone med gray 200'-300' v clean, totally unaltered & unmineralized	
	210																																↓	
	215																																lgn	
	220																																	
	225																																↓	
	230																																	
	235				56	32																											white	
	240																																	
	245																																	
	250																																	
	255																																	
	260																																	
	265																																	
	270																																↓	
	275																																lgn	
	280																																	
	285																																	
	290																																	
	295																																	
	300				56	32																											↓	
	305																																med gray	
	310																																↓	
	315																		02	71	100												white	
	320				59	12																											↓	
	325					22																											reddish gray	
	330																																	
	335																																	
	340																																	
	345																																	
	350																																	
	355				59	14																												
	360																																	
	365																																	
	370																																Tr MnOx to TD	
	375																																	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																400' TD	

TW-21

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 366
January 24, 1992
PROJECT: TOMBSTONE WEDGE
TW-21 (120 TO 375)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 27 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-21 120-125	<.002	<.01	16.	16.	24.
2	TW-21 125-130	<.002	.05	32.	48.	125.
3	TW-21 130-135	<.002	.09	36.	55.	115.
4	TW-21 135-140	<.002	<.01	16.	24.	48.
5	TW-21 140-145	<.002	.06	100.	115.	215.
6	TW-21 145-150	<.002	.07	30.	44.	130.
7	TW-21 150-155	<.002	.50	200.	165.	155.
8	TW-21 155-160	<.002	.73	140.	155.	260.
9	TW-21 160-165	<.002	.62	140.	160.	305.
10	TW-21 165-170	<.002	1.02	180.	175.	440.
11	TW-21 170-175	<.002	1.03	100.	155.	495.
12	TW-21 175-180	<.002	2.02	600.	1900.	2500.
13	TW-21 180-185	<.002	.49	130.	360.	830.
14	TW-21 185-190	<.002	.29	46.	85.	850.
15	TW-21 190-195	<.002	.39	60.	55.	520.
16	TW-21 195-200	<.002	.16	18.	55.	135.
17	TW-21 295-300	<.002	<.01	20.	36.	42.
18	TW-21 300-305	<.002	3.97	300.	390.	245.
19	TW-21 305-310	<.002	<.01	10.	20.	22.
20	TW-21 310-315	<.002	<.01	42.	20.	20.

SKYLINE LABS, INC.
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JOB NO. UJV 366
January 24, 1992

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
21	TW-21 315-320	<.002	.52	20.	42.	170.
22	TW-21 320-325	<.002	1.39	270.	630.	870.
23	TW-21 350-355	.006	<.01	10.	14.	40.
24	TW-21 355-360	<.002	<.01	10.	12.	32.
25	TW-21 360-365	<.002	<.01	8.	12.	28.
26	TW-21 365-370	<.002	<.01	10.	10.	44.
27	TW-21 370-375	<.002	<.01	12.	8.	34.

REGISTERED ASSAYER
CERTIFICATE NO.
9425
WILLIAM L.
LEHMBECK

William L. Lehmbeck
Manager

R.C. DRILL HOLE
TW-22

TOMBSTONE WEDGE PROJECT
CODING SHEET

Lithology Code

00 Caverns/mine workings
01 Alluvium
02 Bisbee Fm
03 Epitaph Dol
04 Colina Ls
05 Earp Fm
06 Horquilla Ls
07 Escabrosa Ls
08 Martin Ls
09 Abrigo Ls
10 Bolsa Qtzite
11 Inter/Mafic Dikes
12 Fault zone
13 Feldspar porphyry

Feature Code

21 limestone
22 porphyritic andesite
23 mudstone/shale
24 limey mudstone/shale
25 gouge
26 breccia
27 marble
28 limey sandstone
29 quartzite
30 sandstone
31 MnOx
32 porphyritic intermediate dike rock
33 chert
34 siltstone
35 dolomite
36 conglomerate
37 vuggy limestone
38 feldspar porphyry
39 dolomitic limestone

Alteration Code

51 calcite
52 clay
53 silica
54 MnOx
55 FeOx
56 bleaching
57 epidote
58 pink calcite

Intensity Code

1 Weak
2 Moderate
3 Strong

Mode Code

1 Vein/veinlet
2 Flooding/Pervasive
3 Disseminated
4 Dendritic
5 Joint coatings
6 Blebs

Mineralization Code

71 pyrite
72 galena
73 sphalerite
74 lead oxides

Structure Code

01 bedding
02 breccia
03 gouge
04 veins

HOLE NO TW-22 DATE STARTED 17 Jan 92 COMPLETED 18 Jan 92 COLLAR ELEVATION 4760 TYPE DRILL RC [illegible] BIT SIZE 4 [illegible]

PROJECT Tambelane Wedge LOGGED BY WDR T.D. 400' INCLINATION -55° BEARING N30E CONTRACTOR Gustin

COORDINATES Y(N) 9840N X(E) 8700 DRIFT SURVEY INTERVAL N/A CONDUCTED BY N/A

DEPTH	LITHOLOGY GRAPH	C #	FEAT #	ALTERATION I #	I PPM	II #	II PPM	III #	III PPM	IV #	IV PPM	V #	V PPM	VI #	VI PPM	VII #	VII PPM	MINERALIZATION TOTAL	I #	I PPM	II #	II PPM	III #	III PPM	IV #	IV PPM	V #	V PPM	STRUCTURE C #	∠°	GRAPH	REMARKS	R.Q.D.
0-5		07	21	55	12																											Abrego limestone: reddish brown limestone w/ a few shaly and silty limestone interbeds	
10																																	
15																																	
20																																	
25																																	
30																																	
35				22																													
40				12																													
45																																	
50																																	
55																																	
60																																	
65																																	
70																																	
75																																	
80							84	22										02	71	100 3												large fragments in cuttings - possible fault; many large frags of solid MnOx	
85								32																									
90																																	
95																																	
100								22																									
105																																	
110																																	
115																																	
120																																	
125																																	
130																																	
135																																	
140																																	
145																																	
150																																	
155																																	
160																		01	71	100 3													
165				57	17																												
170																																Driller dropped splitter pan - NO SAMPLE	
175																																	
180																																	
185																																	
190																																	
195																																	
200																																	

RECOVERY

TW-22

HOLE NO TW-22 DATE STARTED _____ COMPLETED _____ COLLAR ELEVATION _____ TYPE DRILL _____ BIT SIZE _____

PROJECT _____ LOGGED BY _____ T.D. _____ INCLINATION _____ BEARING _____ CONTRACTOR _____

COORDINATES Y(N) _____ X(E) _____ DRIFT SURVEY INTERVAL _____ CONDUCTED BY _____

RECOVERY	DEPTH	LITHOLOGY GRAPH	LITHOLOGY C #	LITHOLOGY FEAT #	ALTERATION I #	ALTERATION I I-M	ALTERATION II #	ALTERATION II I-M	ALTERATION III #	ALTERATION III I-M	ALTERATION IV #	ALTERATION IV I-M	ALTERATION V #	ALTERATION V I-M	ALTERATION VI #	ALTERATION VI I-M	ALTERATION VII #	ALTERATION VII I-M	MINERALIZATION TOTAL	MINERALIZATION I #	MINERALIZATION I PM	MINERALIZATION II #	MINERALIZATION II PM	MINERALIZATION III #	MINERALIZATION III PM	MINERALIZATION IV #	MINERALIZATION IV PM	MINERALIZATION V #	MINERALIZATION V PM	STRUCTURE C #	STRUCTURE ∠°	STRUCTURE GRAPH	REMARKS	R.Q.D.
	200-205		07	21																													Abrigo limestone	
	210																																	
	215																																	
	220				57	12																												
	225																																	
	230						59	14																										
	235																																	
	240																																	
	245				57	22																												
	250																																	
	255																																	
	260				57	12																												
	265																																	
	270																																	
	275																																	
	280					22	59	14																										
	285					12		22																										
	290																																	
	295																																	
	300							14																										
	305																																Interval 300-345' consists fragments of solid altered; possibly represents multiple thin	
	310																																Alaska stringers in alluvium beneath	
	315																																	
	320																																	
	325																																	
	330																																	
	335																																	
	340																																	
	345				65	12																												
	350																																	
	355																																	
	360																																	
	365																																	
	370		07	21																													Eocene limestone (?) clean, medium gray limestone	
	375																																oxidized interval yellowish gray	
	380																																	
	385																																	
	390																																	
	395																																	
	400																																	

TW-22

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. UJV 367
January 24, 1992
PROJECT: TOMBSTONE WEDGE
TW-22 (65 TO 350)

SANTA FE PACIFIC MINING INC.
Attn: Mr. W.D. Riesmeyer
6200 Uptown Blvd., #400
Albuquerque, NM 87125

Analysis of 40 Drill Cutting Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	TW-22 65-70	.008	.31	245.	790.	750.
2	TW-22 70-75	<.002	.17	55.	95.	310.
3	TW-22 75-80	.042	4.30	3800.	10000.	11000.
4	TW-22 80-85	.012	4.05	2200.	5100.	4900.
5	TW-22 85-90	<.002	1.99	1550.	2050.	7900.
6	TW-22 90-95	.008	3.00	1600.	1100.	5800.
7	TW-22 95-100	.004	.98	390.	285.	3300.
8	TW-22 100-105	.012	1.20	110.	1350.	1600.
9	TW-22 105-110	.006	1.01	470.	930.	1750.
10	TW-22 110-115	.034	1.39	1550.	4100.	2400.
11	TW-22 115-120	.024	.70	650.	2000.	1500.
12	TW-22 120-125	<.002	.17	185.	360.	710.
13	TW-22 125-130	<.002	.34	390.	640.	820.
14	TW-22 150-155	<.002	<.01	24.	60.	85.
15	TW-22 155-160	<.002	<.01	10.	30.	60.
16	TW-22 160-165	<.002	<.01	8.	40.	60.
17	TW-22 165-170	<.002	<.01	8.	28.	50.
18	TW-22 170-175 *	.000	.00	0.	0.	0.
19	TW-22 175-180	<.002	<.01	8.	28.	42.
20	TW-22 180-185	<.002	<.01	24.	50.	85.
21	TW-22 220-225	<.002	<.01	16.	24.	80.
22	TW-22 225-230	<.002	<.01	4.	20.	60.
23	TW-22 230-235	<.002	<.01	4.	22.	42.
24	TW-22 235-240	<.002	<.01	6.	16.	48.
25	TW-22 240-245	<.002	<.01	2.	16.	30.

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JOB NO. UJV 367
January 24, 1992

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)
26	TW-22 270-275	<.002	<.01	4.	16.	28.
27	TW-22 275-280	<.002	<.01	8.	24.	44.
28	TW-22 280-285	<.002	<.01	44.	105.	95.
29	TW-22 285-290	<.002	<.01	22.	65.	70.
30	TW-22 290-295	<.002	<.01	42.	48.	55.
31	TW-22 295-300	<.002	<.01	12.	30.	36.
32	TW-22 300-305	<.002	.04	38.	70.	90.
33	TW-22 305-310	<.002	.09	48.	60.	130.
34	TW-22 310-315	.006	1.26	130.	500.	500.
35	TW-22 315-320	<.002	.21	26.	90.	90.
36	TW-22 320-325	<.002	.26	60.	95.	140.
37	TW-22 325-330	<.002	.25	34.	105.	155.
38	TW-22 330-335	<.002	.19	18.	60.	75.
39	TW-22 335-340	.006	7.40	360.	680.	1450.
40	TW-22 340-345	<.002	.58	110.	75.	310.
41	TW-22 345-350	<.002	.07	80.	30.	145.

*NOTE: No sample submitted in sample bag.

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK

William L. Lehmbeck
Manager

1/24/92

TOMBSTONE PROJECT
GEOCHEMICAL DATA
FILESPEC: SA1429.WK1
DATE: 26 JULY 1988

From ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
To SANTA FE PACIFIC MINING
Acme file # 88-1429 Page 3 Received: MAY 13 1988

EXPLANATION:

LITHOLOGY NUMBER IN LIST	LITHOLOGY CODE		ALTERATION CODE		ALTERATION INTENSITY CODE	
33	AND	ANDESITE	OOO	UNALTERED	1	weak
7	DOL	DOLOMITE	ARG	ARGILLIC	2	moderate
2	GRT	GRANITE	FES	IRON OXIDE STAIN, LIMONITE	3	strong
165	LMS	LIMESTONE, CHERT	FLU	FLUORITE		
39	RHY	RHYOLITE	HEM	HEMATITE		
68	SLT	SILTSTONE, SHALE	MNO	MANGANESE OX		
25	SND	SANDSTONE, QUARTZITE, ARKOSE	PYR	PYRITIZATION		
			RXL	RECRYSTALIZED CARBONATE		
338			SIL	SILICIFICATION		
			SKR	SKARN, EPIDOTE		

PPM* = PPM calculated (OPT X 34.29)   PPM# = PPM from chemical assay
Au OPT values below the assay minimum (0.001) are listed as 1/5 of that cutoff value (i.e. 0.002).
Ag OPT values below the assay minimum (0.05) are listed as 1/5 of that cutoff value (i.e. 0.01).

SAMPLE	NUMBER	UTM COORDINATES EASTING	NORTHING	LITH CODE	ALT-1 CODE	ALT-2 CODE	ALT INTS. CODE	Au OPT	Au PPM*	Au PPM#	Ag OPT	Ag PPM*	Ag PPM#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM
T-	50	588755.31	3587691.50	SLT	FES		1	0.024	0.82		1.01	34.63		3	175	4830	2036	26.6	8	5	839	10.91	316
T-	51	588671.75	3587688.20	SLT	FES		1	0.126	4.32		2.12	72.69		40	91	6976	523	68.2	6	2	118	24.23	437
T-	52	588546.75	3587678.80	SLT	FES		1	0.045	1.54		1.16	39.78		23	131	333	378	29.5	8	5	171	18.23	424
T-	53	588525.25	3587623.50	SLT	FES		1	0.001	0.03		0.14	4.80		18	33	89	191	2.1	9	6	128	34.71	276
T-	54	588522.94	3587544.20	SLT	FES		1	0.168	6.45		2.24	76.81		71	365	11678	665	74.8	12	3	455	15.8	643
T-	55	588512.62	3587467.80	SLT	FES	MNO	1	0.025	0.86		3.56	122.07		3	1204	21925	5825	112	6	12	3886	18.93	765
T-	56	588163.50	3587626.20	LMS	SIL		3	0.006	0.21		3.92	134.42		4	934	25460	63405	93.8	11	4	5431	8.92	471
T-	57	588160.44	3587482.50	SND	FES		1	0.018	0.62		1.22	41.83		14	1033	23393	7152	25.5	6	2	233	19.52	797
T-	59	588462.56	3587256.80	SND	FES		1	0.001	0.03		0.12	4.11		2	77	659	1479	1.6	21	15	3941	4.42	60
T-	510	589089.56	3586014.00	LMS	OOO		0	0.09	3.09		14.20	469.66		13	2352	10128	13521	427.9	12	1	99999	1.69	125
T-	511	589095.38	3586116.60	LMS	MNO	FES	1	0.04	1.37				23.4	37	3809	17955	25101	30.3	11	2	1988	18.37	675
T-	512	589070.44	3586317.20	LMS	MNO	FES	2	0.11	3.77				61.6	29	1237	17698	6350	65.8	9	2	1394	34.31	261
T-	514	588734.44	3586297.20	LMS	MNO		1	0.585	20.06		13.86	475.26		1	10092	18437	65367	272.5	8	1	65374	5.64	1522
T-	515	588568.44	3586517.20	LMS	MNO	FES	3	0.19	6.52		4.16	142.65		2	2349	10797	17267	168.2	5	1	24926	1.26	310
T-	516	588513.38	3586468.80	LMS	MNO		2	0.085	2.91		8.34	285.98		47	4050	17305	18411	276.5	25	1	99999	6.04	2543
T-	517	588449.25	3586264.20	DOL	MNO		3	0.29	9.94		16.28	558.24		4	4401	14600	18772	482.2	9	1	99999	1.3	501
T-	524	588349.06	3586134.00	LMS	MNO		1	0.485	16.63		9.71	332.96		1	17178	19630	21569	292.1	16	43	99999	6.38	1528
T-	525	588270.00	3585963.50	LMS	MNO		1	0.08	2.74		18.88	647.40		1	4564	11387	32050	566.6	13	7	99999	2.41	571
T-	526	588275.69	3586367.80	LMS	MNO		1	0.215	7.37		17.76	608.99		47	13502	11107	14162	437.6	40	11	99999	1.04	725
T-	528	588116.19	3585760.80	LMS	MNO		1	0.22	7.54		24.16	828.45		1	9197	17252	27527	222.4	9	4	99999	1.53	1109
T-	529	588536.38	3586556.60	LMS	MNO		1	0.385	13.20		9.75	334.33		24	3335	21509	5536	299.6	11	7	11250	8.19	1680
T-	532	588442.75	3586450.20	LMS	MNO		1	2.66	91.21		4.85	166.65		6	7626	19130	33701	164.8	6	1	26711	2.37	539
T-	533	588325.81	3586568.20	DOL	MNO		2	0.215	7.37		20.15	690.94		31	7514	20472	32516	229.3	9	1	99999	1.02	1803
T-	534	588020.31	3586691.50	LMS	MNO	SKR	1	0.15	5.14		7.42	254.43		6	6116	17368	60012	234.9	4	1	57384	0.85	1087
T-	536	587944.94	3586442.20	LMS	OOO		0	0.125	4.29		11.14	381.99		3	16002	21691	6751	296.5	11	4	15231	2.62	148
T-	537	587781.69	3586487.20	LMS	MNO		1	0.275	9.43		5.98	205.05		1	3397	16607	13625	225.9	64	60	99999	5.6	535
T-	538	587975.81	3586475.50	LMS	MNO		1	0.21	7.20		12.88	441.66		1	8212	17164	19954	264	12	3	99999	3.05	1861
T-	539	587980.00	3585707.60	LMS	OOO		0	0.145	4.97		6.66	228.37		1	1902	5396	6719	222.5	18	5	99999	3.39	689
T-	540	588070.38	3585560.80	LMS	MNO		2	0.25	8.57		15.68	537.67		1	14215	14037	18057	180	17	13	99999	2.21	768
T-	541	587983.75	3585911.80	SLT	MNO		1	0.095	3.26				6.1	1	1643	3941	8497	123.1	13	6	99999	1.91	325
T-	542	587985.25	3586091.60	SND	OOO		0	0.07	2.40				60.7	3	668	1670	16460	72.6	19	11	99999	2.75	187
T-	543	587836.69	3586198.00	LMS	MNO		1	0.001	0.03		4.95	169.74		1	852	4918	4552	185.2	27	7	99999	1.72	266
T-	544	587606.75	3586327.00	LMS	MNO		1	0.001	0.03		8.35	286.32		1	4779	5168	10590	288.4	23	9	99999	1.49	793
T-	545	587852.50	3586764.50	LMS	MNO		2	0.001	0.03		2.25	77.15		46	799	18145	25859	89.2	10	1	99999	1.03	435
T-	546	587848.88	3586828.50	DOL	MNO		3	0.004	0.14		21.58	739.98		1	5959	4402	9324	282.4	7	1	99999	1.23	731
T-	547	587818.44	3586889.20	DOL	MNO		2	0.005	0.17		24.16	828.45		3	14117	5876	4267	233.3	14	2	14620	1.53	1089
T-	548	587719.25	3587035.00	DOL	MNO	RXL	2	0.002	0.07		9.36	320.95		13	4665	3252	17802	135	11	1	99999	0.79	861
T-	551	587763.88	3587062.80	LMS	MNO		1	0.003	0.10		16.16	554.13		1	3674	9419	61751	231.2	10	1	99999	0.81	556
T-	552	587706.00	3587055.00	LMS	MNO		2	0.002	0.07		11.16	382.68		1	8252	16309	40861	195.6	8	1	99999	0.59	903
T-	553	587616.31	3587265.20	LMS	MNO		2	0.001	0.03		18.58	637.11		1	1562	3586	15652	131.5	16	1	99999	0.59	339
T-	554	587704.50	3587227.80	LMS	HEM	MNO	1	0.007	0.24		7.64	261.98		17	1058	5392	2307	202.9	51	2	8258	19.95	6585
T-	555	587805.75	3587231.50	LMS	MNO		2	0.003	0.10		17.16	588.42		4	2791	16465	60720	202.3	20	2	99999	0.63	550
T-	556	587758.81	3587222.50	SLT	ARG	FES	2	0.007	0.24		4.65	159.45		11	1513	15201	3030	250.1	27	2	6276	8.03	4871
T-	557	587595.94	3587360.20	LMS	SIL		1	0.001	0.03		1.24	42.52		11	179	1041	1328	46.1	29	3	6219	5.08	247
T-	558	587719.50	3587392.00	LMS	MNO		2	0.012	0.41		9.46	324.38		2	1968	13448	10323	229.2	14	4	99999	1.5	567
T-	559	587850.75	3587241.80	SND	HEM		2	0.001	0.03		10.78	369.65		1	4501	10500	18027	218.2	7	3	99999	4.53	621
T-	560	587996.50	3586972.00	SLT	SIL		1	0.002	0.07		5.28	181.05		41	3722	19711	4776	177.9	19	3	6985	2.23	485
T-	563	588270.25	3587484.80	SND	SIL	FES	2	0.036	1.23		3.22	110.41		45	576	5698	2499	132.7	8	4	480	23.81	899
T-	565	587775.69	3587737.20	LMS	MNO		2	0.039	1.34		7.16	245.52		13	1321	14265	6053	305.1	7	3	59037	4.32	297
T-	566	587773.62	3587698.80	LMS	SKR		3	0.021	0.03		0.28	9.60		1	36	126	704	3.7	6	1	1040	0.76	25
T-	568	587807.25	3587969.50	LMS	SKR	FES	1	0.006	0.21		2.04	69.95		8	145	1298	2869	77.3	5	3	54446	1.03	96
T-	572	588156.81	3587657.50	SLT	FES		1	0.016	0.55		4.68	160.48		11	2272	21022	6818	126.1	20	21	16308	2.63	354
T-	573	588070.44	3587730.00	SLT	MNO	FES	1	0.017	0.58		4.77	163.56		12	1748	8700	9705	183.3	10	6	31307	2.17	174
T-	574	588216.12	3587671.50	SLT	FES		2	0.026	0.89		1.04	35.66		30	65	368	220	32.1	6	5	423	32.39	913
T-	575	588506.62	3587805.20	SLT	MNO	FES	2	0.005	0.17		2.64	90.53		7	1745	11447	8563	44.4	11	4	3615	4.62	499
T-	577	588596.88	3587929.50	SLT	FES		2	0.003	0.10		0.35	12.00		15	176	2210	789	9	13	3	377	6.63	203
T-	578	587529.56	3586508.20	SLT	MNO		1	0.001	0.03		20.42	700.20		1	5659	21101	25329	240.2	16	4	99999	1.64	1763
T-	579	587568.12	3586422.00	SLT	MNO		1	0.001	0.03		10.94	375.13		1	3270	3202	14106	261.2	3	1	99999	0.55	1436
T-	580	587603.81	3586522.50	LMS	MNO		3	0.001	0.03		8.66	296.95		1	3174	3204	9376	258.3	18	6	99999	1.55	1510
T-	581	587521.19	3586554.80	LMS	MNO		2	0.002	0.07		3.38	115.90		1	348	2600	3238	133.5	8	1	99999	0.67	174
T-	582	587558.81	3586581.80	LMS	MNO		2	0.001	0.03		[illegible]	236.26		1	2856	11740	25162	264.7	28	3	99999	1.4	1859
T-	583	587646.50	3586594.20	LMS	MNO		1	0.004	0.14		4.77	163.56		18	6236	22496	10147	148.9	26	3	14027	3.09	2457
T-	586	587696.75	3586502.50	LMS	MNO		2	0.001	0.03		1.16	39.78		1	4602	2354	8267	53.3	40	49	99999	1.16	522
T-	588	587355.81	3586627.00	LMS	MNO	SKR	1	0.002	0.07		6.66	228.37		7	18477	22776	5433	266.1	7	1	30375	2.28	11433
T-	589	587352.81	3586556.20	LMS	MNO		2	0.001	0.03		13.76	471.83		1	11255	14180	38919	412.5	20	1	99999	1.08	378
T-	590	587335.44	3586515.80	LMS	MNO		1	0.001	0.03		2.94	100.81		1	1061	2816	3269	116.9	8	2	99999	2.1	435
T-	591	587181.62	3586528.00	LMS	MNO		1	0.002	0.07		16.66	571.27		1	6917	16393	23435	397.9	15	1	99999	0.7	[illegible]
T-	592	587301.25	3586452.80	LMS	MNO		2	0.002	0.07		14.28	489.66		1	6652	19626	34381	267.7	31	1	99999	2.97	2422
T-	593	587389.25	3586572.50	LMS	MNO		1	0.001	0.03		1.42	48.69		1	2658	976	20925	68.9	31	5	99999	1.18	781
T-	594	587390.75	3586542.50	LMS	MNO		2	0.001	0.03		3.69	126.53		6	142	2275	379	146.1	21	3	4553	4.07	286
T-	595	587389.06	3586525.50	LMS	MNO		2	0.001	0.03		11.38	390.22		1	6366	5386	28770	452.4	221	21	97250	1.78	563
T-	596	586925.19	3586475.00	LMS	ARG	FES	2	0.001	0.03		6.48	222.20		4	1692	8015	5769	276.4	82	24	57971	12.31	763
T-	598	586875.44	3586373.20	GRT	ARG	MNO	3	0.001	0.03		0.64	21.95		1	153	193	9687	28.3	240	94	82690	1.52	45
T-	599	586994.25	3586392.50	LMS	MNO		1	0.001	0.03		0.66	22.63		1	60	635	3518	26.5	9	5	72115	2.88	125
T-	602	587408.38	3587040.00	LMS	MNO		1	0.001	0.03		9.06	310.67		42	6635	21022	41178	302.8	1	1	73600	1.71	2589
T-	603	587364.81	3586996.50	LMS	MNO		1	0.001	0.03		4.28	146.76		3	1127	11101	16051	170.1	3	3	99999	3.96	612
T-	613	588309.12	3588486.00	LMS	SIL	MNO	3	0.007	0.24		36.66	1257.07		4	1936	23140	51095	224.5	8	3	31170	2.68	336
T-	614	588336.69	3588487.80	LMS	SIL	MNO	3	0.001	0.03		7.67	263.00		1	689	4389	44584	228.5	5	5	75337	1.08	222
T-	615	588306.06	3588487.60	LMS	FLU	SIL	1	0.012	0.41		36.88	1264.62		7	1913	28174	23772	279.8	7	2	8976	2.09	261
T-	617	588202.69	3588377.00	SLT	SKR	FES	3	0.031	1.06		24.16	828.45		1	667	9880	64059	396.6	1	5	99267	0.86	227
T-	618	588258.19	3588449.50	LMS	FES		1	0.007	0.24		109.66	3760.24		4	5084	23208	37594	220.1	17	1	3578	1.51	255
T-	654	586712.56	3587060.00	SLT	FES		1	0.001	0.03		0.07	2.40		6	282	2552	2256	4.3	16	21	5222	5.46	348
T-	665	588691.62	3587086.80	SLT	FES		1	0.018	0.62		10.15	348.04		10	536	22304	1060	325.1	2	4	1212	27	715
T-	1019	587762.69	3587566.20		SIL	FES	2	0.021	0.720		19.96	684.43		4	2232	6954	6678	461.3	1	8	99999	2.17	314
T-	1020	587759.94	3587552.00		SIL	FES	2	0.034	1.166		7.77	266.43		10	2172	6685	9620	222.8	3	2	37454	2.49	613
T-	1021	587727.44	3587422.50		SIL	FES	2	0.018	0.617		11.68	400.51		14	5591	7394	16633	265	24	4	17469	11.93	4679
T-	1022	587727.25	3587422.20		SIL	FES	2	0.016	0.549		9.06	310.67		22	2906	17033	9185	117.3	10	2	899	28.22	6069
T-	1023	587727.25	3587422.20		SIL	FES	2	0.002	0.069		8.88	304.50		1	1474	2870	12765	260.2	3	1	99999	0.7	447
T-	1024	587750.50	3587506.50		MNO		3	0.006	0.206		39.16	1342.60		20	1046	5454	8797	386.7	1	3	99999	2.87	1453
T-	1025	587762.69	3587505.00		MNO		3	0.014	0.480		18.88	647.40		1	1493	7362	16267	346.8	3	1	99999	0.65	426
T-	1026	587803.06	3587679.80		SIL	MNO	2	0.106	3.635		12.56	430.68		19	6207	14320	11877	314.6	2	2	10242	2.31	1137
T-	1027	587782.75	3587566.80		SIL	FES	2	0.046	1.577		29.46	1010.18		1	8414	10438	36315	282.7	2	8	99999	10.29	2325
T-	1028	587774.56	3587505.00		MNO	ARG	2	0.042	1.440		15.86	543.84		1	1402	2226	8445	328.8	3	1	99999	0.68	289
T-	1030	587751.94	3587261.00		RXL	SIL	2	0.001	0.034		5.66	194.08		1	495	1276	7519	178.7	2	1	99999	0.46	577
T-	1031	587686.38	3587232.20		MNO	RXL	2	0.036	1.234		76.77	2632.44		37	34181	20437	36777	222.1	4	1	14002	1.6	4975
T-	1032	587798.38	3587538.50		SIL	FES	1	0.091	3.120		14.36	492.40		5	19969	12533	27516	371	12	8	31776	10.62	3746
T-	1033	587702.38	3587175.80		MNO	RXL	3	0.001	0.034		5.46	187.22		1	1162	3013	23028	174.1	4	1	99999	0.35	163
T-	1034	587799.06	3587235.20		MNO		3	0.012	0.411		13.68	469.09		29	4352	8770	25883	311.4	1	2	99999	1.43	1061
T-	1035	587773.6[illegible]	3587282.80		MNO	SIL	2	0.056	1.920		18.96	650.14		10	25424	22299	61745	228.4	5	18	18747	5.48	1416
T-	1036	587773.69	3587282.80		MNO	SIL	2	0.0002	0.007		6.46	221.51		1	1348	2053	23642	208.7	3	2	99999	0.83	172
T-	1037	587787.94	3587489.00		FES	SIL	2	0.01	0.343		13.22	453.31		21	1495	6458	11102	282	3	2	26362	24.21	4331
T-	1038	587775.44	3587489.80		MNO	FES	3	0.004	0.137		42.16	1445.67		1	3360	5807	24640	225	3	2	99999	1.18	268
T-	1039	587775.44	3587485.80		ARG	FES	3	0.003	0.103		14.16	485.55		2	814	10842	10005	341	2	3	99999	1.83	676

NUMBER	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	F PPM	As* PPM	Sb* PPM	Bi* PPM	Ge PPM	Se PPM	Te PPM
50	5	2	4	174	11	27	2	36	0.27	0.118	13	16	0.06	105	0.02	9	0.39	0.02	0.32	5	480	320.5	32	0.1	0.3	8.6	727.2
51	5	5	7	17	3	121	2	12	0.07	0.02	2	17	0.02	72	0.01	5	0.33	0.01	0.67	33	170	476.6	154.1	0.4	0.7	11.9	1530.1
52	5	2	6	46	2	23	2	20	0.06	0.032	5	15	0.03	76	0.01	7	0.48	0.01	0.3	1	290	440.7	31	0.1	0.7	4.6	1036.1
53	5	2	6	23	1	13	2	14	0.14	0.047	14	10	0.06	51	0.01	9	0.73	0.02	0.21	1	730	306	23.2	0.3	0.7	0.2	40.2
54	5	11	8	20	3	93	7	81	0.13	0.05	10	36	3.03	68	0.01	[illegible]	0.62	0.03	0.51	1	270	656.5	107.6	0.7	0.6	18.1	281.5
55	5	0	2	12	28	937	2	13	0.57	0.022	4	18	0.05	28	0.01	15	0.38	0.02	0.5	2	310	689.2	1068.5	0.5	0.6	19.1	95.4
56	5	0	2	46	41	1071	2	4	0.26	0.027	8	1	0.04	62	0.01	19	0.35	0.01	0.05	2	470	404.1	1269.2	0.1	0.6	18.9	92.6
57	5	0	9	15	11	857	2	8	0.12	0.087	4	12	0.03	27	0.01	10	0.48	0.01	0.1	1	380	758.1	1115.9	0.2	0.3	24.6	56.1
59	5	1	5	45	6	15	2	33	3.15	0.037	17	22	0.75	158	0.04	17	2.53	0.01	0.18	1	1670	57.2	27.2	0.1	0.2	0.7	2
510	5	0	2	1156	99	535	2	10	9.39	0.022	4	32	0.45	545	0.01	2	0.07	0.03	0.2	1	160	109.7	523.9	0.1	0.2	0.9	0.3
511	7	1	3	495	122	49	2	341	3.6	0.043	2	63	0.05	27	0.01	31	0.03	0.02	0.02	1	360	628.9	29.4	0.2	0.2	0.2	0.3
512	8	1	4	220	8	213	2	49	2.31	0.024	2	45	0.03	7	0.01	27	0.08	0.01	0.02	1	300	252.4	204.3	0.3	0.2	0.2	0.3
514	5	0	7	313	349	3684	2	12	6.24	0.018	7	37	0.25	10	0.01	31	0.24	0.06	0.23	7	460	1436.8	2963.7	0.8	0.2	1.2	1.7
515	5	0	2	204	95	1266	2	13	26.65	0.01	7	28	1.63	30	0.01	15	0.11	0.03	0.03	1	160	270.9	1065	0.1	0.2	0.3	0.5
516	5	1	1	266	89	2655	6	53	7.89	0.017	9	47	0.1	25	0.01	2	0.06	0.12	0.13	1	230	2643.1	2731.4	0.1	0.2	57.1	10.5
517	5	0	3	556	178	1418	2	29	11.66	0.004	5	34	0.24	104	0.01	2	0.06	0.08	0.16	3	140	579.7	1261.5	0.2	0.2	0.2	0.3
524	5	0	6	64	297	1981	2	22	0.54	0.051	6	35	0.03	105	0.01	2	0.32	0.07	0.15	5	270	1596.8	1839.2	3.7	0.3	4.8	12.3
525	5	0	10	455	551	270	2	20	5.11	0.254	24	52	0.46	400	0.01	3	0.33	0.06	0.6	1	690	621.2	235	1.2	1.4	23	9.7
526	5	0	5	3531	83	1420	2	264	8.09	0.003	2	39	0.45	371	0.01	2	0.11	0.09	0.74	1	60	953.9	1570.3	0.3	1.1	7	4
528	5	0	7	822	267	157	2	56	2.08	0.015	36	43	0.25	659	0.01	2	0.21	0.02	0.77	1	220	1150.6	175.9	0.1	0.6	0.2	0.3
529	5	0	3	59	149	3434	2	6	8.00	0.015	20	28	0.03	72	0.01	14	0.32	0.03	0.08	1	350	1399.6	2764.3	1.9	1.2	10.7	18.4
532	5	0	1	236	507	4173	2	8	16.9	0.008	13	34	0.66	33	0.01	23	0.19	0.03	0.02	5	230	663.8	3131.8	1.7	0.7	7.4	6.9
533	5	0	4	633	283	1025	2	31	7.59	0.005	4	35	0.13	469	0.01	2	0.21	0.02	0.34	4	320	1768.7	801.2	0.2	0.2	0.2	0.3
534	5	0	5	67	532	1770	2	112	19.5	0.003	4	1	0.27	16	0.01	53	0.06	0.02	0.02	6	260	1060.4	1046.6	0.1	0.2	0.2	0.6
536	5	0	2	190	222	2238	2	14	21.74	0.012	20	22	0.07	6	0.01	7	0.63	0.01	0.04	1	290	212.1	1934.2	1.6	0.2	2	0.3
537	5	2	8	486	255	326	2	19	1.78	0.063	6	45	0.11	32	0.01	2	0.69	0.07	0.92	1	580	534.3	257.6	0.6	0.2	0.6	4.4
538	5	0	1	303	621	5599	2	9	11.05	0.011	25	26	2.1	186	0.01	2	0.17	0.01	0.27	1	190	1923.3	4880.9	0.2	0.2	0.4	1.1
539	5	0	6	2046	79	776	2	18	3.17	0.012	11	22	0.32	586	0.01	2	0.22	0.07	0.95	1	560	659.8	769.9	0.3	0.2	0.2	2.4
540	5	0	16	405	647	1355	2	10	1.21	0.022	5	29	0.13	34	0.01	2	0.36	0.13	0.7	1	930	953.9	1300	0.1	0.2	3.3	0.3
541	5	0	7	796	112	252	2	7	4.32	0.014	13	22	0.09	82	0.01	2	0.22	0.04	0.71	1	350	351.7	233.4	0.1	0.2	0.2	2.5
542	5	0	6	349	128	94	2	6	4.94	0.037	29	22	0.17	33	0.01	2	0.19	0.01	0.23	1	820	168.4	99.1	0.3	0.2	0.2	5.8
543	5	0	10	2777	55	24	25	72	1.57	0.016	29	28	0.32	337	0.01	2	0.19	0.1	0.64	1	150	265.7	31.4	31.3	0.2	1.3	1.8
544	5	0	10	639	123	774	2	7	4.99	0.014	5	30	0.28	74	0.01	2	0.16	0.07	0.64	1	250	1071.8	845.3	0.1	0.2	0.2	0.7
545	5	0	1	372	62	485	2	13	5.59	0.007	8	48	0.29	65	0.01	2	0.1	0.01	0.14	1	290	446.6	461.3	0.3	0.2	1.6	2.4
546	5	0	2	547	172	1603	2	21	9.72	0.028	7	23	0.09	14	0.01	2	0.13	0.03	0.44	1	900	1044.5	1724.3	0.1	0.2	0.2	0.3
547	5	0	1	46	49	3519	4	20	6.59	0.024	6	37	0.85	6	0.01	13	0.05	0.01	0.04	1	320	1453.3	3762	0.2	0.7	2	0.3
548	5	0	10	1155	192	696	2	16	1.97	0.001	2	26	0.12	52	0.01	2	0.15	0.06	0.49	1	500	910.9	670.2	0.4	0.2	0.2	0.3
551	5	0	13	1040	478	713	2	12	4.99	0.002	5	10	0.23	52	0.01	2	0.42	0.08	0.52	2	740	564.5	775.4	0.1	0.2	3.7	0.3
552	5	0	8	565	418	1174	4	9	4.47	0.002	3	12	0.31	41	0.01	2	0.11	0.11	0.44	1	270	1186.8	1334.2	0.1	1.3	9.3	0.3
553	5	0	16	2114	172	75	2	10	1.02	0.002	2	37	0.41	49	0.01	2	0.17	0.21	1.45	1	350	342.1	94.6	0.5	0.5	0.2	0.3
554	5	1	3	1130	39	1527	2	85	2.57	0.026	12	174	0.2	50	0.01	15	0.14	0.02	0.2	1	300	6607	1769.5	0.6	0.2	0.3	6.2
555	5	0	3	445	479	2142	2	26	4.51	0.018	14	1	0.08	331	0.01	2	0.19	0.03	0.24	2	410	737.4	2431.8	0.1	0.2	0.8	0.5
556	5	1	3	254	45	2434	2	20	2.5	0.014	4	105	0.9	63	0.01	6	0.05	0.01	0.11	1	360	3123.9	2930.1	0.3	0.2	2.9	2.4
557	5	0	2	56	17	92	2	12	2.92	0.005	9	65	0.02	34	0.01	4	0.02	0.01	0.04	1	100	323.1	115.4	0.8	0.2	3.6	0.8
558	5	0	7	1605	256	356	2	11	5.35	0.018	17	39	0.11	618	0.01	2	0.37	0.08	0.6	1	480	692.8	419.9	0.1	0.2	0.4	1.9
559	5	0	4	123	406	1277	2	1386	1.37	0.099	22	29	0.04	227	0.01	2	0.3	0.01	0.4	1	640	618.4	1778.3	0.1	0.2	1.2	4
560	5	0	1	29	135	1915	3	1861	5.12	0.06	5	79	0.01	28	0.01	6	0.06	0.03	0.03	1	180	526.4	2402.7	0.1	0.2	2	1.5
563	5	1	9	58	13	1866	2	27	0.11	0.067	6	21	0.01	52	0.01	10	0.44	0.01	0.08	1	280	778.7	2244.6	0.3	0.3	0.2	28.8
565	5	0	5	852	65	157	2	11	9.98	0.042	14	27	0.2	261	0.01	11	0.18	0.01	0.29	1	760	306.1	185.5	0.1	0.2	0.9	7.7
566	5	0	2	398	2	9	2	5	23.72	0.046	12	14	1.34	16	0.02	47	1.67	0.01	0.01	1	970	35.5	1.4	0.1	0.2	0.4	0.8
568	5	0	3	653	30	63	2	46	12.95	0.018	10	25	0.19	1534	0.01	54	0.16	0.01	0.09	1	400	108.1	98.6	0.2	0.2	0.2	1.5
572	5	0	1	17	33	149	2	12	0.33	0.162	59	54	0.09	55	0.01	7	0.71	0.01	0.05	1	2100	388.2	150.9	0.1	0.2	0.8	5.2
573	5	0	2	278	78	212	2	30	7.74	0.033	19	36	0.48	566	0.03	8	0.44	0.03	0.07	1	912	197.1	254.1	0.1	0.2	0.4	4.5
574	5	1	16	152	1	18	2	45	0.16	0.135	7	12	0.04	213	0.01	12	0.65	0.01	0.16	1	984	881	15.1	1.1	0.4	0.2	23.5
575	5	0	3	21	8	107	2	48	0.7	0.086	13	32	0.47	56	0.02	5	0.61	0.01	0.06	1	960	538.7	103.2	0.1	0.3	7	17.8
577	5	0	15	19	5	297	2	23	0.2	0.012	15	33	0.07	36	0.01	6	0.44	0.03	0.27	1	1064	215.7	233.4	0.4	0.2	1.7	7.9
578	5	0	2	406	402	3190	6	8	2.36	0.012	10	33	0.14	267	0.01	2	0.09	0.06	0.35	1	216	1560.8	3573	1.7	2	4.3	9
579	5	0	20	2071	52	741	8	9	4.26	0.01	2	22	0.17	305	0.01	2	0.08	0.14	0.39	1	144	1660	916.2	0.1	0.2	0.2	0.3
580	5	0	8	1907	100	642	6	11	0.95	0.018	9	20	0.12	186	0.01	2	0.31	0.14	1.21	1	280	1399.4	684.1	0.9	0.2	0.2	1.1
581	5	0	1	2285	25	18	3	75	8.12	0.028	5	25	0.27	44	0.01	2	0.08	0.1	0.32	1	112	186.6	22.1	0.1	0.6	1.2	2
582	5	[illegible]	7	2051	149	196	8	21	2.04	0.015	14	38	0.09	82	0.01	2	0.29	0.08	0.43	1	440	1541.6	260.9	0.1	0.2	0.2	1.6
583	5	0	1	184	387	56	2	4320	3.54	0.01	4	139	0.03	6	0.01	2	0.08	0.03	0.03	1	104	2305.4	65.3	0.1	0.9	82	31.6
586	5	0	4	686	223	35	4	24	1.4	0.027	2	29	0.14	20	0.01	2	0.68	0.07	0.61	1	240	677.8	45.5	0.1	0.2	0.2	0.3
588	5	0	1	172	146	2355	6	168	10.1	0.022	9	29	0.03	46	0.01	4	0.02	0.05	2.03	1	160	11255.5	2754.4	3.6	0.2	0.2	4.2
589	5	0	4	1299	320	231	5	19	4.9	0.002	2	53	0.14	37	0.01	2	0.1	0.1	0.45	1	144	340.7	306.6	0.1	4.5	0.2	10.8
590	5	0	2	1118	24	250	2	13	8.69	0.006	10	14	0.19	16	0.01	2	0.02	0.06	0.36	1	64	446.6	351.2	0.1	0.2	0.2	2.3
591	5	0	4	681	119	175	4	10	2.17	0.002	2	35	0.09	490	0.01	2	0.07	0.09	0.28	2	64	640.4	220.8	0.1	2.9	0.2	5.7
592	5	0	3	1147	149	1915	2	12	4.56	0.014	8	9	0.23	270	0.01	2	0.14	0.07	0.54	1	240	2269.3	2273	0.1	1.4	0.2	8.3
593	5	0	10	1324	106	198	4	9	1.42	0.008	2	33	0.1	17	0.01	2	0.11	0.15	0.26	2	224	622.4	228.8	0.4	0.2	0.2	0.5
594	5	1	6	25	6	344	2	15	0.25	0.025	12	58	0.01	70	0.01	4	0.3	0.04	0.35	1	624	207.4	312.8	1.6	0.2	1	7.8
595	5	0	3	164	214	690	2	10	0.38	0.057	5	53	0.05	66	0.01	2	4.3	0.03	0.1	1	2460	635.2	740.7	0.8	0.6	0.2	6.8
596	5	0	3	230	72	544	108	49	0.21	0.084	9	48	0.05	58	0.01	18	0.15	0.04	0.25	1	560	696.3	688	82.3	0.2	0.2	4.2
598	5	0	8	327	193	2	2	5	12.08	0.032	5	10	0.32	556	0.01	2	0.86	0.03	0.51	1	696	48.8	3.3	1.2	0.2	3.3	0.6
599	5	0	5	458	27	4	5	6	22.49	0.015	16	7	0.32	76	0.01	2	0.1	0.01	0.71	1	248	141.5	4.9	3.8	0.2	0.3	4.7
602	5	0	1	586	285	867	3	101	9.11	0.007	9	1	0.11	13	0.01	2	0.04	0.05	0.07	1	400	2303.9	925.9	0.1	1.2	14.9	9.3
603	5	0	10	2067	188	177	2	16	6.45	0.006	13	61	0.16	17	0.01	2	0.05	0.1	0.43	1	296	684.8	253.3	0.1	0.2	0.8	4.3
613	5	0	1	21	634	872	2	6	4.13	0.029	17	1	0.08	12	0.01	16	0.31	0.01	0.13	4	3230	331.7	652.2	0.1	0.8	6.5	30.4
614	5	0	8	307	273	777	2	14	14.72	0.025	16	11	0.19	427	0.01	35	0.51	0.02	0.16	3	1450	210.1	799	0.5	0.2	0.2	5.7
615	5	0	3	100	1555	1360	2	2	18.92	0.026	7	1	0.07	426	0.01	11	0.09	0.01	0.92	44	53400	227.7	1285	0.4	0.2	0.5	5.9
617	6	0	11	116	292	176	2	12	6.79	0.019	20	1	0.14	156	0.02	32	0.03	0.01	0.47	3	10600	225.3	128.6	0.1	0.6	0.2	10.9
618	5	0	1	24	283	3253	2	1	0.5	0.02	2	17	0.22	53	0.01	18	0.11	0.01	0.01	2	440	291.5	3703.7	0.4	0.6	0.2	11.2
654	5	1	2	86	67	29	2	24	2.98	0.029	15	37	0.18	169	0.01	11	0.63	0.01	0.23	1	700	322.9	27.5	0.3	0.2	3.3	0.3
665	5	1	3	109	6	222	2	21	0.68	0.03	8	26	0.08	45	0.05	10	0.43	0.01	0.76	1	150	616.9	239.9	0.5	0.5	13.1	77.6
1019	9	0	14	1536	41	99	2	17	6.49	0.033	34	15	0.27	2218	0.01	15	0.42	0.05	0.12	9	980	382.9	86.5	0.1	0.2	0.2	12.1
1020	6	0	1	176	120	1224	2	6	9.64	0.016	13	38	0.13	154	0.01	11	0.09	0.01	0.07	1	310	632.6	1137.2	0.1	0.2	5.9	14.7
1021	5	0	2	103	154	2356	2	50	3.8	0.027	13	67	0.12	105	0.01	13	0.05	0.01	0.02	1	230	4023.6	2109.6	0.9	0.2	0.2	25.5
1022	5	0	3	68	30	3611	2	28	0.14	0.014	18	24	0.18	32	0.01	20	0.5	0.02	0.04	1	850	5498	4019.3	0.8	0.2	0.2	38.7
1023	7	0	25	183	92	623	2	5	11.11	0.001	2	20	0.38	120	0.01	2	0.07	0.01	0.01	1	200	523.6	782	0.1	0.2	1.2	0.5
1024	6	0	21	5165	70	568	4	11	3.11	0.109	58	14	0.25	1084	0.01	4	0.55	0.11	0.51	1	2350	1396.5	596.9	0.1	0.2	0.2	1.4
1025	6	0	25	1899	265	631	2	5	8.92	0.012	14	24	0.1	63	0.01	2	0.27	0.09	0.67	1	610	481.7	905.7	0.1	0.6	2.6	0.3
1026	8	3	1	91	132	1122	2	3	5.81	0.022	10	53	0.04	24	0.01	16	0.1	0.01	0.01	1	470	1120.2	950.3	0.1	1.2	0.2	19.1
1027	5	0	23	2921	147	2547	6	10	0.61	0.026	52	39	0.16	2852	0.01	5	0.56	0.01	0.24	3	860	2415.2	2523.6	0.5	0.2	0.2	122
1028	6	0	24	988	110	131	2	6	15.34	0.004	5	13	0.13	19	0.01	3	0.19	0.04	0.18	1	420	330.2	156.7	0.3	0.2	0.5	0.4
1030	6	0	31	1480	47	155	3	13	0.37	0.023	2	20	0.17	237	0.01	2	0.34	0.05	0.04	1	570	637.9	182.6	0.2	0.4	0.2	0.3
1031	6	2	1	76	734	5605	2	6	9.26	0.01	3	55	0.55	6	0.01	18	0.07	0.02	0.01	17	390	5511.6	4640.5	0.4	0.2	0.2	22.6
1032	5	3	4	251	242	864	5	20	8.71	0.001	24	33	3.51	39	0.01	24	0.73	0.01	0.21	1	390	4527.4	774.9	0.2	0.2	0.2	28.9
1033	8	0	37	440	165	133	6	8	1.55	0.001	2	39	0.09	4	0.01	2	0.14	0.08	0.34	1	590	105.2	134.9	1	0.3	0.2	0.3
1034	5	0	18	1401	78	1235	4	15	12.09	0.001	6	32	0.19	371	0.01	6	0.1	0.02	0.09	2	170	1260.9	1316.8	0.3	0.5	1.4	11
1035	5	1	1	38	41	287	2	3	0.17	0.002	12	40	0.04	10	0.01	19	0.09	0.01	0.01	3	160	1222	216.5	0.6	1.2	2.2	10.3
1036	8	0	41	672	610	32	5	18	4.04	0.001	11	26	0.29	672	0.01	2	[illegible]	0.02	0.07	1	350	130.6	41.8	0.1	0.2	0.2	0.3
1037	5	1	6	142	209	541	2	30	9.66	0.016	4	36	0.11	204	0.01	10	0.2	0.01	0.08	1	310	4570.7	591.3	0.2	0.2	1.9	28.4
1038	7	0	28	1092	387	105	5	49	1.66	0.024	3	46	0.14	334	0.03	2	0.53	0.13	0.94	7	500	227.7	110.2	0.1	0.3	0.2	1.1
1039	6	0	18	2136	66	363	2	11	12.33	0.014	21	12	0.21	519	0.01	2	0.48	0.04	0.34	1	940	715.6	320.6	0.1	0.3	0.2	1.6

TOMBSTONE SAMPLE DATA
TOMBSTONE SAMPLE DATA
TOMBSTONE SAMPLE DATA
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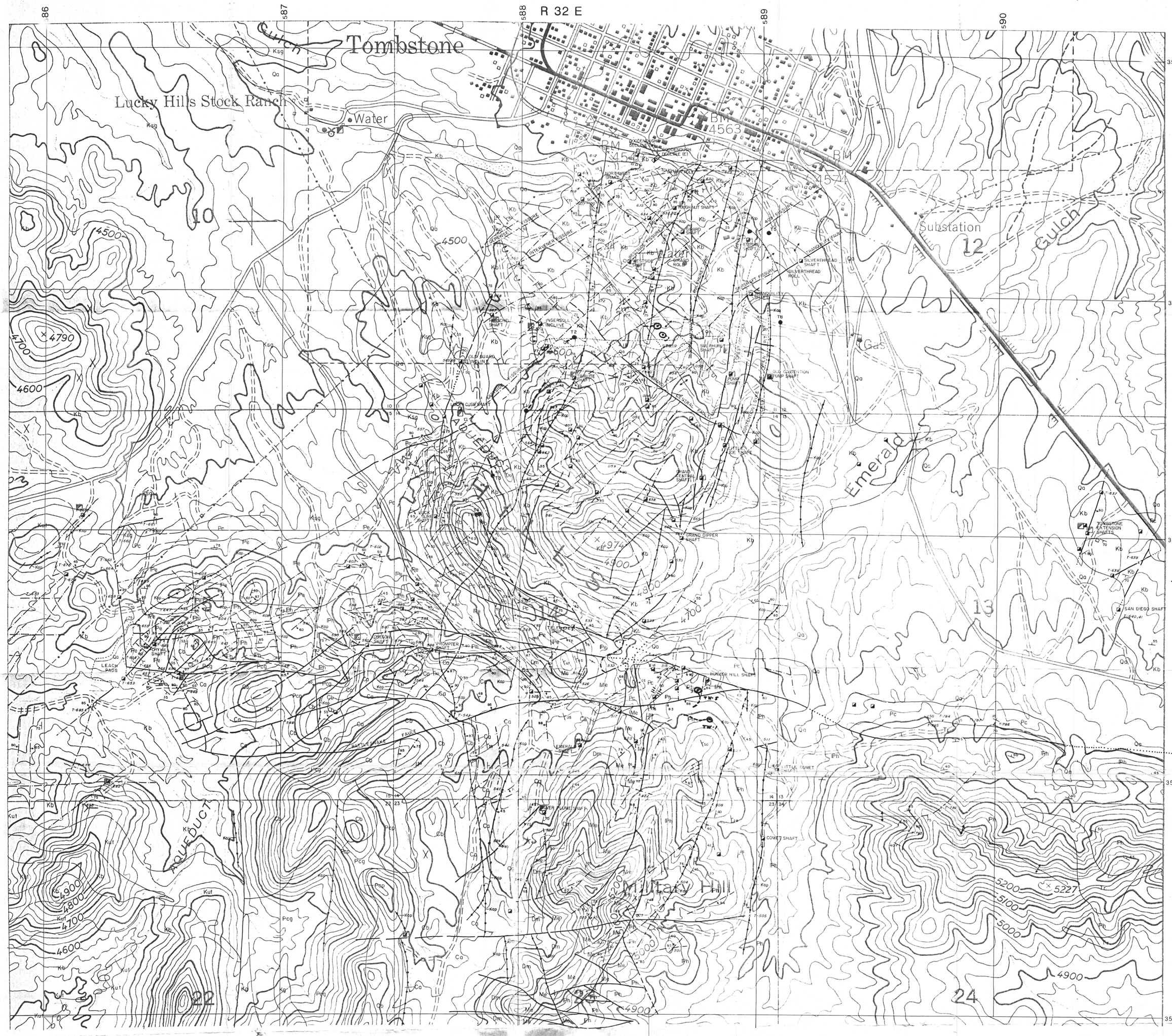
TOMBSTONE SAMPLE DATA



EXPLANATION

Period	Unit	Description
QUATERNARY	Qa	Alluvium, dumps, tailings, etc.
TERTIARY	Tr	rhyolite plugs and dikes
CRETACEOUS	Kg	granophyre
	Kut	Uncle Sam tuff
	Ksg	Schieffelin granodiorite
	Kop	andesite porphyry dikes
		unconformity
	Kb	Bisbee Formation
		unconformity
PENNSYLVANIAN-PERMIAN, NACO GROUP	Pe d	Epitath dolomite
	Pc	Colina limestone
	Pe	Earp limestone
	Ph	Horquilla limestone
		disconformity
MISSISSIPPIAN	Me	Escabrosa limestone
		disconformity
DEVONIAN	Dm	Martin limestone
		disconformity
CAMBRIAN	Ca	Abrigo limestone
	Cb	Bolsa quartzite
		unconformity
PRECAMBRIAN	Pcg	granite
	Pcp	Pinal schist

SYMBOLS

- anticline, overturned anticline, showing plunge
- contact, approximately located, concealed, showing dip
- fault, approximately located, concealed, showing dip
- fissure or air photo linear, showing dip
- strike and dip of bedding, vertical dip
- vertical shaft
- inclined shaft
- adit
- prospect pit
- T5 drill hole

R 32 E

LOCATION OF 1989 DRILL HOLE COLLARS

- T6
- T8

SCALE 1" = 500

500 0 500 1000 1500

CONTOUR INTERVAL 25 FEET

13° MN

N

Vol 2, Bk 19

Santa Fe Pacific Mining, Inc.

Albuquerque, New Mexico

Revisions	
By	Date
BB	1-2-89
BB	9-7-89

GEOLOGIC MAP OF THE TOMBSTONE MINING DISTRICT

PLATE 1.

Scale: 1" = 500'	Data by D. Riesmeyer	State Arizona	Date 10-3-88
	Drawn by B. Bone	County Cochise	File No. G-27

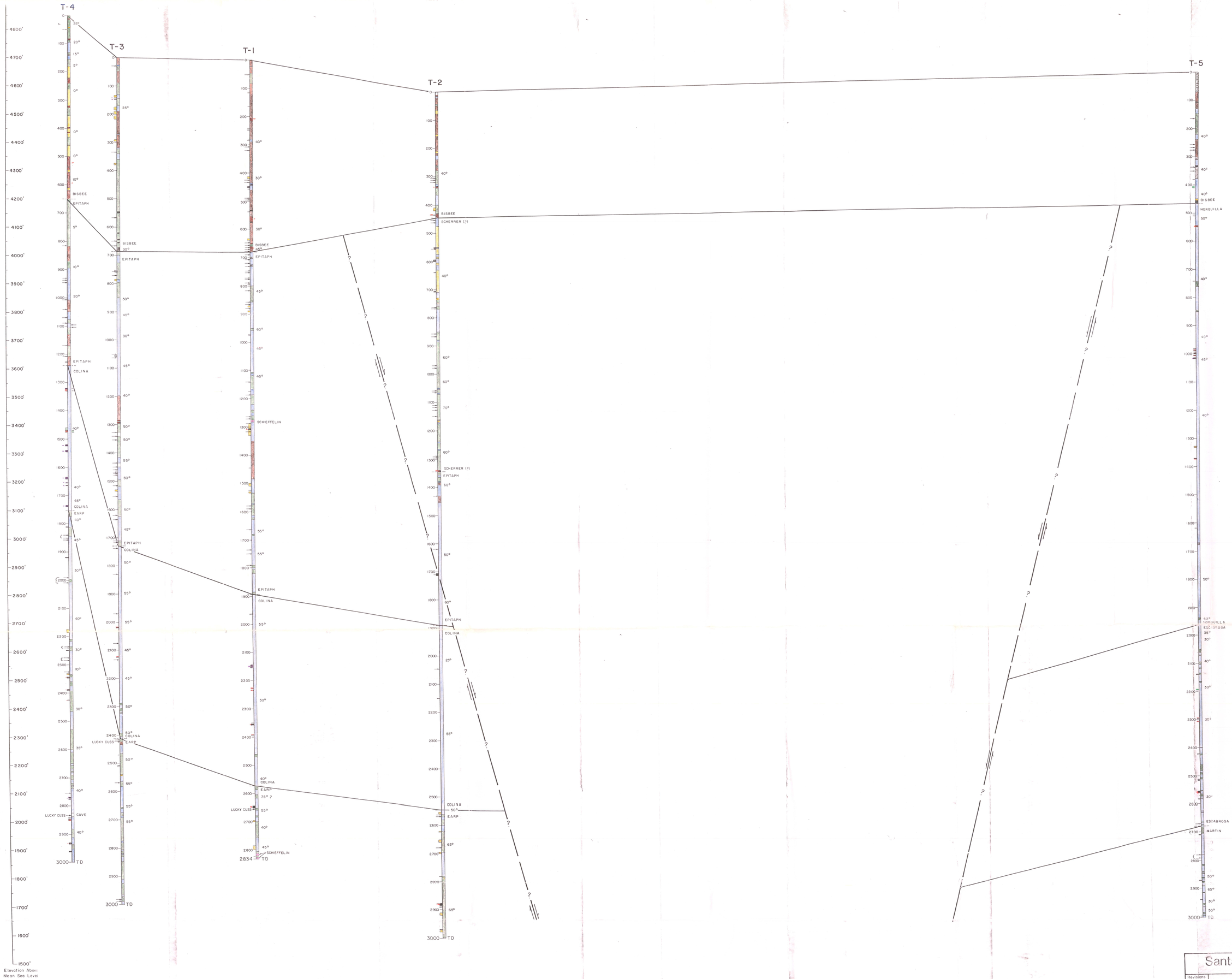


PLATE 2.

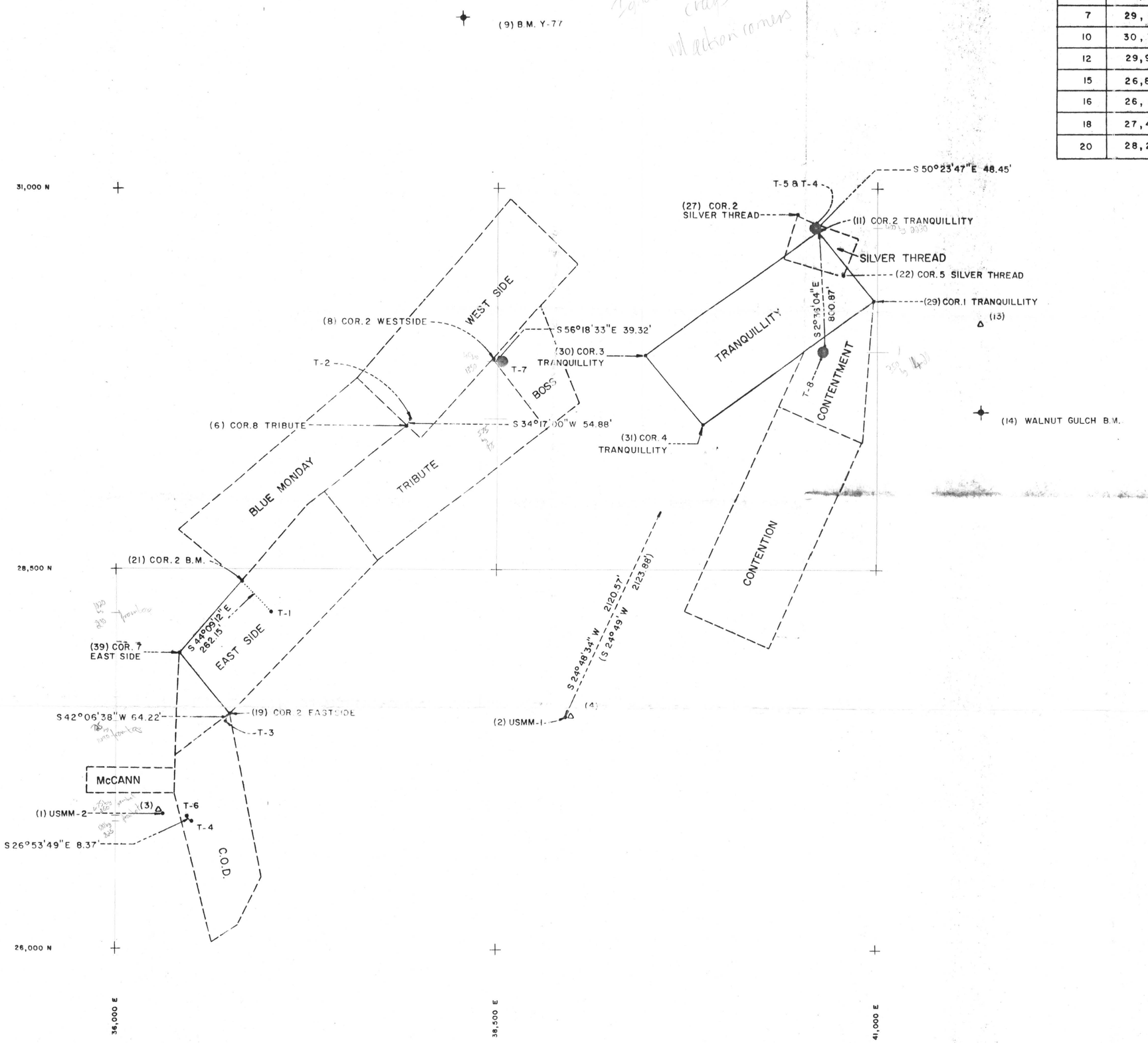
Santa Fe Pacific Mining, Inc.
Albuquerque, New Mexico

Revisions	
By	Date

GRAPHIC LOGS & CORRELATION CHART
OF
TOMBSTONE DRILL HOLES

VERTICAL & HORIZONTAL SCALE 1" = 100'

DRILL HOLE DATA				
PT. NO.	NORTH	EAST	GR. ELEV.	DESCRIPTION
5	29,490.12	37,925.87	4588.8	T-2
7	29,859.02	38,502.79	4545.1	T-7
10	30,752.66	40,566.24	4617.8	T-5 & T-9
12	29,921.74	40,639.92	4601.9	T-8
15	26,853.83	36,486.57	4862.7	T-4
16	26,861.30	36,482.79	4862.8	T-6
18	27,499.59	36,724.15	4660.4	T-3
20	28,223.06	37,013:13	4682.0	T-1



NOTES:

BASIS OF BEARINGS ESTABLISHED BY E. SCHAAF & ASSOC. USMM-1 TO USMM-2 IS N 76°21'35" E

VERTICAL DATUM IS WALNUT GULCH OFFICE B.M. ELEV. = 4618.00

HORIZ. CONTROL IS ASSUMED, 26,900.00 NORTH AND 36,300.00 EAST IS AN ALUMINUM CAP (LS 7141) LOCATED NEAR USMM-2, PT. NO. (1)

DASHED LINES (---) INDICATE UNSURVEYED CLAIM LINES

(8) DENOTES MHCO POINT NUMBER

COR. 2, BLUE MONDAY TO USMM-2 = S 18°58'03" W, 1620.04, (S 18°40' W 1577.4') REC.

1" = 500'

SURVEYED & PLATTED DURING APRIL & MAY 1989

REGISTERED LAND SURVEYOR CERTIFICATE NO. 7141 GORDON W. McLAIN ARIZONA, U.S.A.

5-22-89

GORDON McLAIN, U.S. MINERAL SURVEYOR

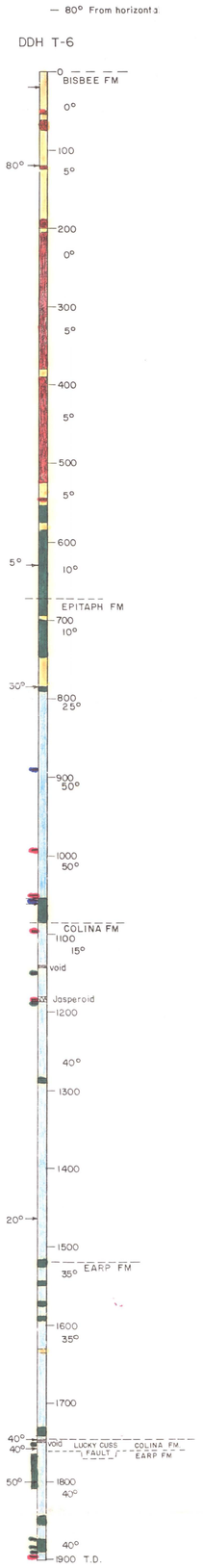
RESULTS OF SURVEY

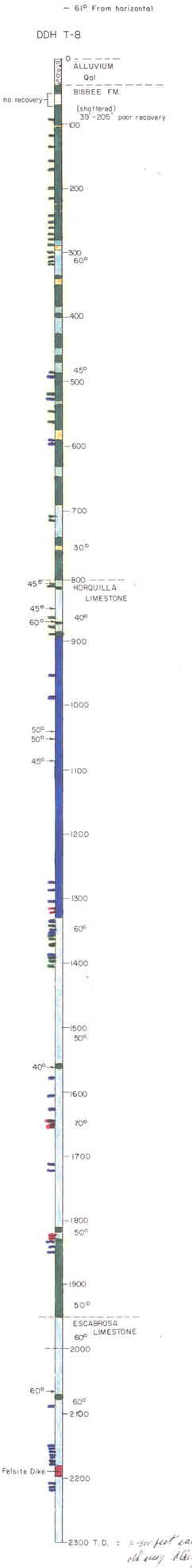
SANTA FE PACIFIC MINING, INC.

TOMBSTONE PROJECT

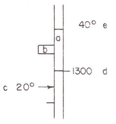
COCHISE COUNTY, ARIZONA

McLAIN HARBERS CO., INC. 1665 E. 18TH ST. TUCSON, ARIZONA	DATE: MAY 1989 SCALE: 1" = 500' DRAWN BY: L.W.	JOB NO. 1356





EXPLANATION



a. lithology
b. mineralization
c. fault w/angle to core axis
d. drill footage
e. angle of bedding to core axis

LITHOLOGY

- Sandstone / Quartzite, Arkose
- Void
- Conglomerate
- Limestone / Dolomite
- Siltstone / Mudstone
- Tectonic Breccia
- Felsite Dike

MINERALIZATION

- Pyrite
- Galena, Sphalerite, and / or Chalcopyrite
- MnOx

PLATE 2

Santa Fe Pacific Mining, Inc.

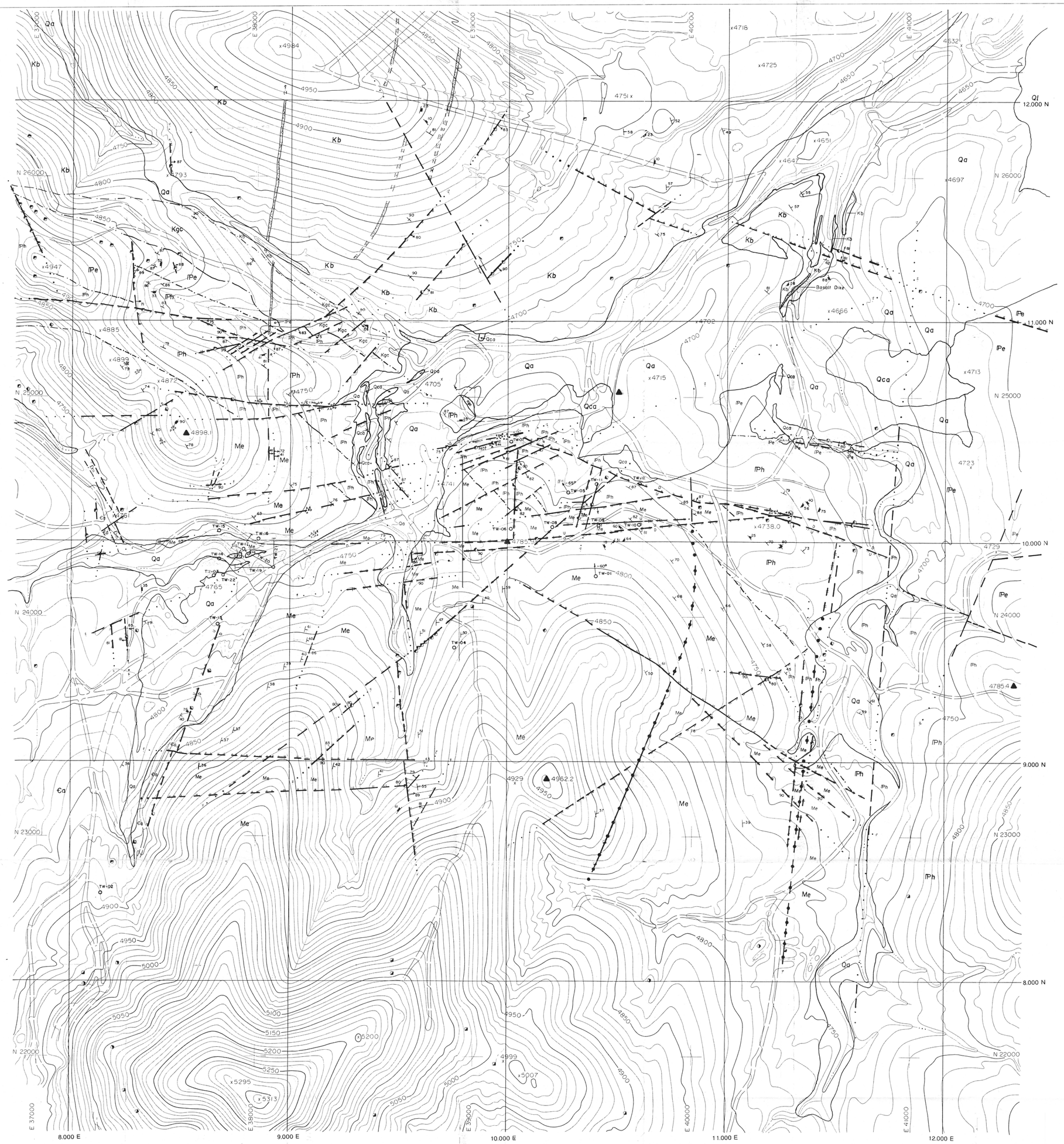
Albuquerque, New Mexico

Revisions By	Date

GRAPHIC LOGS OF 1989 TOMBSTONE DRILL HOLES

View North

Scale: 1" = 100'	Data by D. Riesmeyer	State Arizona	Date 9-7-89
	Drawn by B. Bone	County Cochise	File No.



LEGEND

Qa	Quaternary Alluvium
Qca	Quaternary Well Cemented Alluvium
Ql	Quaternary Lacustrine
Kb	Bisbee Formation
Kgc	Glance Conglomerate
IPe	Earp Limestone
IPh	Horquilla Limestone
Me	Escabrosa Limestone
Dm	Martin Limestone
Ꞓa	Abrigo Limestone

Strike & Dip

Strike & Dip (overturned)

Joint & Dip

Strike & Dip (vertical)

Vertical Shaft

TW-03 Drill Hole

Formation Contact

Fault, Strike-Slip

Fault, Reverse

Felsite Dike

Andesite Dike

SCALE 1" = 200'

0 100 200 400
FEET

McLAIN HARBERS CO., INC.
AERIAL MAPPING & SURVEYING
720 W. Prince Rd.
Tucson, Arizona 85705

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS TO NATIONAL MAP ACCURACY STANDARDS.
1" = 200' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS
IT IS BASED ON GROUND CONTROL SURVEY DATA PROVIDED BY:

Santa Fe Pacific Mining, Inc.

Albuquerque, New Mexico

Revisions	
By	Date
BB	11-27-91
BB	1-28-92

General Geology of the TOMBSTONE – WEDGE PROJECT

Scale 1" = 200' | Data by: K.E. FAGAN | State: ARIZONA | Date: 9-14-90