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P.S. 8229AQ (Feed), BV087-11 - 340-345'. Trace of remnant pyrite in strongly oxidized (goethite) altered host and quartz vein material.

Pyrite - -1% - Pale yellow, either isotropic or with very weak anomalous anisotropism, hard and is well polished. Rare and small cubic crystal remnants enclosed by silicate gangue. Most of original pyrite in host and vein assemblage is oxidized to goethite. The remnant grains have margins corroded by oxidation.

Goethite - 1% - Light to medium gray and with bluish tint where better polished, anisotropic but with polarization colors masked by strong reddish brown internal reflections, highly variable hardness and ranges from powdery and unpolished to moderately well polished. Present both as oxidation pseudomorphs after cubic pyrite in altered host and in vein filling material. Also some as apparent open space fillings.

Hematite - -1% - Light gray with blue tint, moderately anisotropic and with polarization in shades of gray, hard and is well polished. Occurs in very small amount as equant grains in altered host assemblage, and contains small lamellar to irregularly shaped magnetite inclusions.

Magnetite - -1% - Light grayish brown, isotropic, hard and is well polished. Observed only as small equant lamellae and irregularly shaped inclusions in hematite from the altered host accessory assemblage.

Rutile - -1% - Light to medium gray and at times with violet tint, anisotropic but with polarization effects masked by strong white to pale yellowish brown internal reflections, hard and is well polished. Present as liberated grains and in altered host fragments as an alteration product of original titanian phases of host.

Trash iron - -1% - White metallic, isotropic, moderate hardness and is well polished. Occurs rather abundantly as small curved "shavings" added to sample during preparation.

Non-metallic gangue - 98%

P.S. 8432AQ (Heavies) - BV087-15 - 30-35'. Native gold and native silver in strongly oxidized goethite-rich assemblage with psilomelane, jarosite, and malachite. May also contain minor cerargyrite.

Native gold - -1% - Medium to dark golden yellow color - indicating variable silver content, isotropic but does not show complete extinction because of polishing scratches, low hardness and is moderately well polished. Observed as two particles - one forming a composite with goethite and having a length of 40 microns and the other as a liberated wire-like particle 78 microns in length. Grains develop a light tarnish rather quickly.

Native silver - -1% - White with slight creamy tint, isotropic but does not go to complete extinction, low hardness and with moderate polish. Observed as single elongate particle - not seen in contact with other opaques so paragenesis is unknown. Grain has length of 80 microns.

Goethite - 36% - Light to medium gray with bluish tint where better polished, anisotropic but with polarization effects largely masked by strong reddish brown internal reflections, highly variable hardness - from powdery and unpolished to locally moderate hardness and good polish. Most of grains are finely banded. Occurs alone and in composites with siliceous gangue. Formed both as oxidation pseudomorphs after sulfide grains and as apparent open space fillings.

Psilomelane - 1% - Light bluish gray, anisotropic and shows divergent fibrous texture with polarization in shades of gray and bluish gray, moderate hardness and is well polished. Occurs both as liberated particles and as crudely microbotryoidal aggregates with quartz gangue.

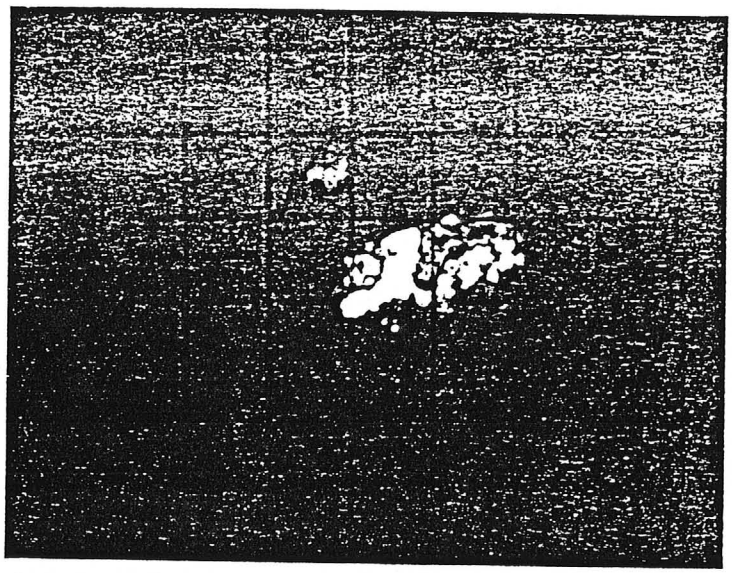
Jarosite - 3% - Medium to dark gray in polished surface and with strong yellowish internal reflections, very low hardness and is largely unpolished. Occurs with goethite in powdery or pulverulent aggregates. Locally shows better polished areas with yellow internal reflections - that

may indicate presence of cerargyrite.

Malachite - -1% - Medium gray with strong green internal reflections, soft and with moderate development of polish. Occurs in small amount in aggregates filling fractures that cut siliceous gangue and is associated with goethite.

Trash iron - -1% - White metallic, isotropic, moderate hardness and is well polished. Small curved "shavings" were added during sample preparation.

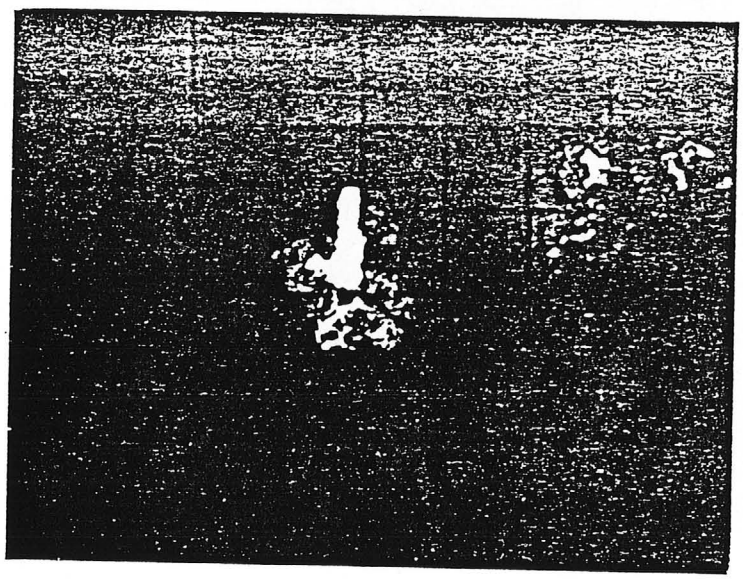
Non-metallic gangue - 59%



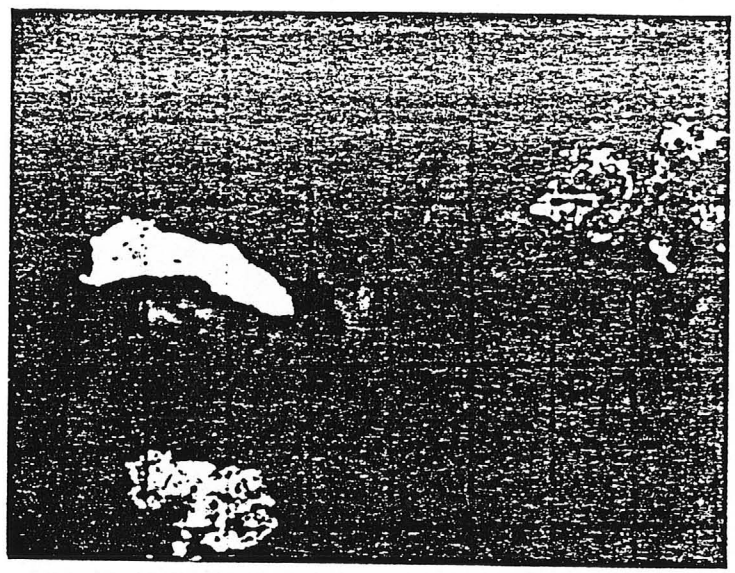
P.S. 8432AQ (Heavies). Polished section photomicrograph of native gold (Au) with minor bordering goethite. Plain light, X200. Each square of grid is 32 microns on an edge.

Scott Rev. 2-29-88

M-170



8432AQ (Heavies). Polished section photomicrograph of native gold (Au) associated with and bordered by goethite (goe). Plain light, X200. Each square of grid is 32 microns on an edge.



P.S. 8432A0 (Heavies). Polished section photomicrograph of native silver (Ag) associated with goethite (goe). Plain light, X200. Each square of grid is 32 microns on an edge.

P.S. 8578AQ (Heavies) - BV087-18. Native gold in composite grains with vein quartz and goethite and associated with minor remnant pyrite in strongly goethite oxidized ore.

Native gold - -1% - Golden yellow color, isotropic but does not show complete extinction, low hardness and is rather well polished. Present as three small grains (23 to 36 microns) forming composites with vein quartz in which exposed at fragment margins and as particle enclosed goethite oxidation pseudomorphs after original cubic pyrite crystal in vein quartz. Color suggests relatively low silver content.

Pyrite - -1% - Pale yellow, either isotropic or with weak anomalous anisotropism and very faint polarization colors of blue to purplish, hard and is well polished. Occurs as liberated particles with oxidative corrosion at grain margins, as liberated particles that are partially rimmed by goethite oxidation products, and as rare and small remnants that are locked in vein quartz and associated with goethite oxidation pseudomorphs.

Goethite - 43% - Light to medium gray and with blue to violet tint in better polished surfaces, anisotropic but with polarization colors masked by strong reddish brown internal reflections, highly variable hardness and with variable poor to good polish. Present variously as oxidation pseudomorphs after pyrite and as cavity fillings - both in liberated particles and as composites with siliceous gangue. In one instance encloses native gold. Is often thinly and complexly banded.

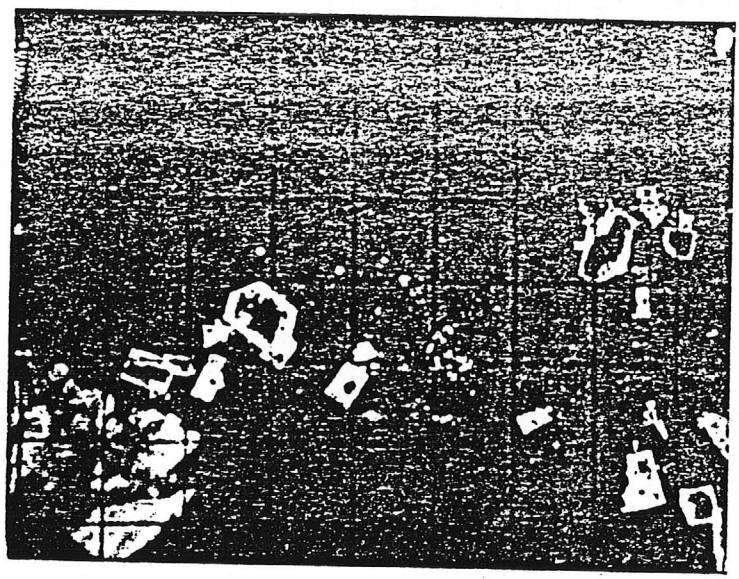
Rutile - -1% - Medium gray with slight violet tint, anisotropic but with polarization effects masked by strong yellowish brown internal reflections, hard and is well polished. Present both as liberated grains and as inclusions in siliceous fragments - and is derived from the altered host assemblage.

Trash iron - -1% - White metallic, isotropic, moderate hardness and is well polished. Occurs as small curved "shavings" contributed during sample preparation.

P.S. 8578AQ (Heavies) - BV087-18.

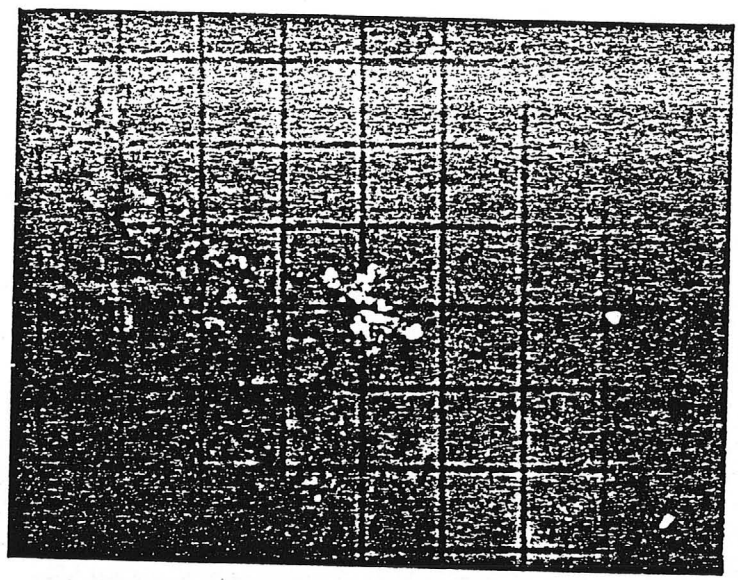
Non-metallic gangue - 55% -

*Note: There is a non-metallic phase with deep yellow internal reflections and low hardness that may be either cerargyrite-AgCl or jarosite-$KFe_3(SO_4)_4(OH)_6$.

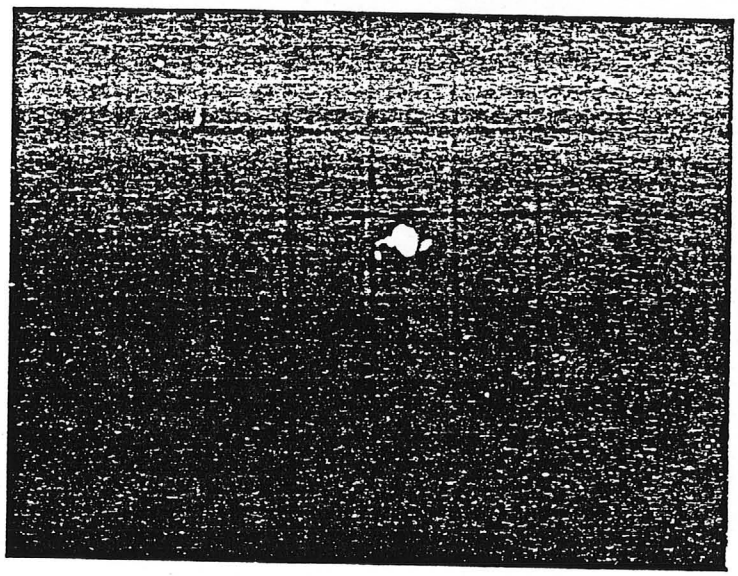


P.S. 8578A0 (Heavies). Polished section photomicrograph showing two small remnant pyrite grains (py) in quartz gangue with goethite (goe) oxidation pseudomorphs. Plain light, X200. Each square of grid is 32 microns on an edge.

M175

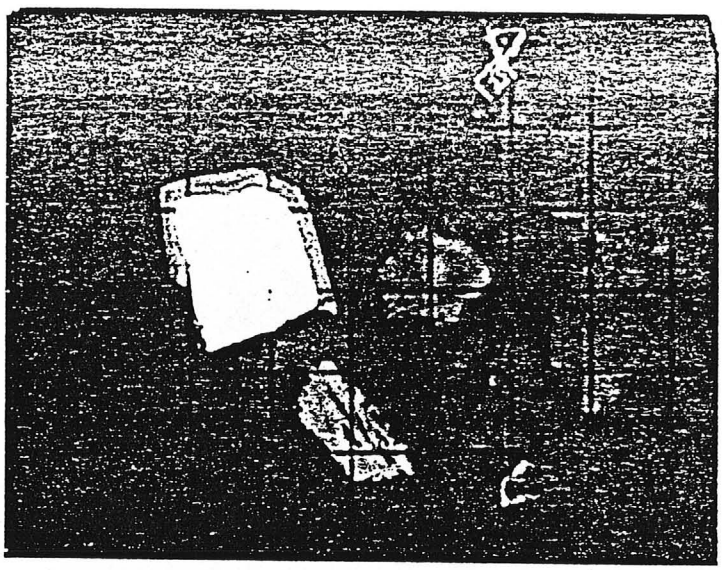


P.S. 8578AQ (Heavies). Polished section photomicrograph showing small grain of remnant pyrite (py) associated with goethite (goe) in siliceous gangue. Plain light, X200. Each square of grid is 32 microns on an edge.



P.S. 8578A2 (Heavies). Polished section photomicrograph of native gold (Au) locked by or encapsulated by quartz gangue. Plain light, X200. Each square of grid is 32 microns on an edge.

M177



P.S. 8578A0 (Heavies). Polished section photomicrograph of pyrite remnant partially rimmed by goethite and associated with separate fragments of goethite and siliceous gangue. Plain light, X200. Each square of grid is 32 microns on an edge.

P.S. 8583AQ (Feed) - BV087-18 - 55-60'. Very minor remnant pyrite with goethite products in strongly oxidized ore sample.

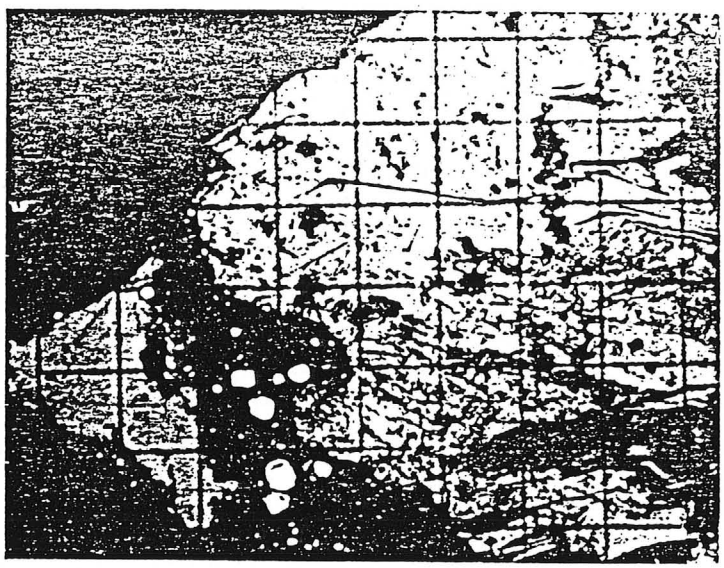
Pyrite - -1% - Pale yellow color, either isotropic or with weak anomalous anisotropism, hard and is well polished. Occurs in trace amount as very small remnant cubic crystals in vein quartz, and as scrace remnants enclosed by goethite oxidation pseudomorphs. Was originally the dominant sulfide mineral.

Goethite - 1+% - Light to medium gray with bluish tint, anisotropic but with polarization effects masked by strong reddish brown internal reflections, highly variable hardness and perfection of polish. Present both as liberated particles and as composites with or enclosed by silicate gangue. Rarely contains remnants of pyrite from derived as oxidation pseudomorphs.

Rutile + Zircon - -1% - Light to medium gray, anisotropic but with polarization colors completely masked by strong colorless to pale yellow internal reflections, hard and is well polished. Present as liberated fragments and as inclusions in siliceous gangue, and is part of the minor accessory suite of host.

Trash iron - -1% - White metallic, isotropic, moderate hardness and is well polished. Present as curved "shavings" that were added during sample preparation.

Non-metallic gangue - 98% - Includes calcite as well as silicate minerals.



P.S. 8589AC. Polished section photomicrograph of relatively coarse orpiment (orp) with small associated pyrite (py) grains. Plain light, X100. Each square of grid is 65 microns on an edge.

RUSSELL M. HONEA
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November 28, 1987

Richard S. Kunter
Homestake Mining Company
1726 Cole Blvd.
Golden, Colorado 80401

Re: BVO Proj., AZ
Leach Residues

Dear Richard:

Enclosed are results of polished section examination of leach residues for head samples from the BVO Project described in my previous report. Each of the samples was examined both in sections prepared from the leach residues as received and in heavy mineral concentrates prepared therefrom. As usual, photomicrographs are included to illustrate some of the pertinent mineralogic and tectural features.

Native gold is present in the leach residues as particles in the one to four micron size rangue that are locked in quartz gangue. In some cases the locked gold is accompanied by goethite oxidation pseudomorphs after pyrite. Silver in the leach residues is present both as the chloride mineral cerargyrite and as a component of galena remnants present in all three samples. Because polished section optics of cerargyrite are not completely diagnostic I have placed a question mark after the identification and suggested that some argentian jarosite may also be a carrier for silver values.

Please let me know if there are questions regarding the data.

Sincerely,

Russell M. Honea

M181

P.S. 8227AQ (P1452-5, Leach Residue). Locked micron-sized native gold particles in vein quartz and associated with minor remnant pyrite-galena-sphalerite-chalcopyrite and dominant goethite oxidation products.

Native gold - -1% - Golden yellow color, isotropic but does not show complete extinction, low hardness and is moderately well polished. Observed in leach residue only as micron-sized grains encapsulated or locked in quartz gangue. Will be further searched for in heavy liquid separate.

Pyrite - -1% - Pale yellow color, either isotropic or with very weak anomalous anisotropism, hard and is well polished. Scarce and small remnants present in goethite oxidation pseudomorphs, and single grain present with galena that appears to replace the earlier iron sulfide. Was originally the dominant sulfide mineral.

Galena - -1% - White, isotropic and with rather poorly developed triangular cleavage pits, soft and is moderately well polished, bordered by cleavage surfaces. Observed only as small fragment forming composite with pyrite and as rare liberated grains. Shows some oxidative corrosion at grain margins.

Sphalerite - -1% - Medium gray, isotropic and with pale yellowish internal reflections, moderate hardness and is well polished. Observed in single small composite grain with pyrite and galena, and appears to corrode and to have been deposited later than pyrite.

Chalcopyrite - -1% - Bright yellow color with faint greenish tint in polished surface, weakly anisotropic and with polarization colors of blue to green, moderate hardness and is well polished. Observed as rare and small liberated fragments with some oxidative corrosion at grain margins.

Magnetite - -1% - Light grayish brown, isotropic, hard and is well polished. Scarce equant grains that show some rimming and replacement by hematite. Derived from the minor accessory suite of host rock.

Hematite - -1% - Light gray with bluish tint, moderately anisotropic and with polarization in shades of gray, hard and is well polished. Present

P.S. 8227AQ (P1452-5, Leach Residue).

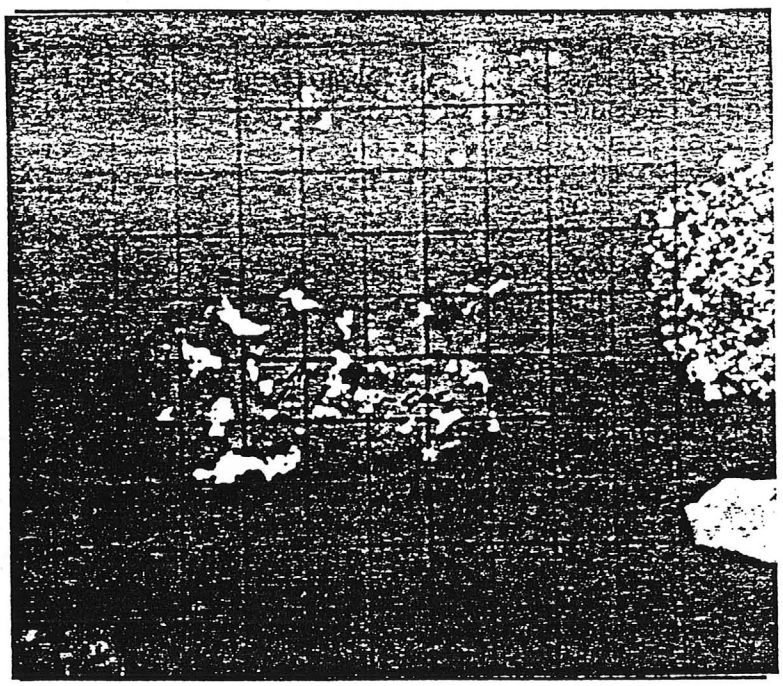
with magnetite as described above - and is part of the accessory suite of host rock.

Rutile - -1% - Light to medium gray with slightly violet tint, anisotropic but with polarization colors masked by strong white internal reflections, hard and is well polished. Small anhedral aggregates enclosed by siliceous host fragments and formed by alteration of original titanian accessories.

Goethite - 1% - Light to medium gray and at times with bluish tint, anisotropic but with polarization colors masked by strong reddish brown internal reflections, highly variable hardness and perfection of polish. Widely scattered as oxidation pseudomorphs after pyrite originally present both as a vein mineral and in the altered host.

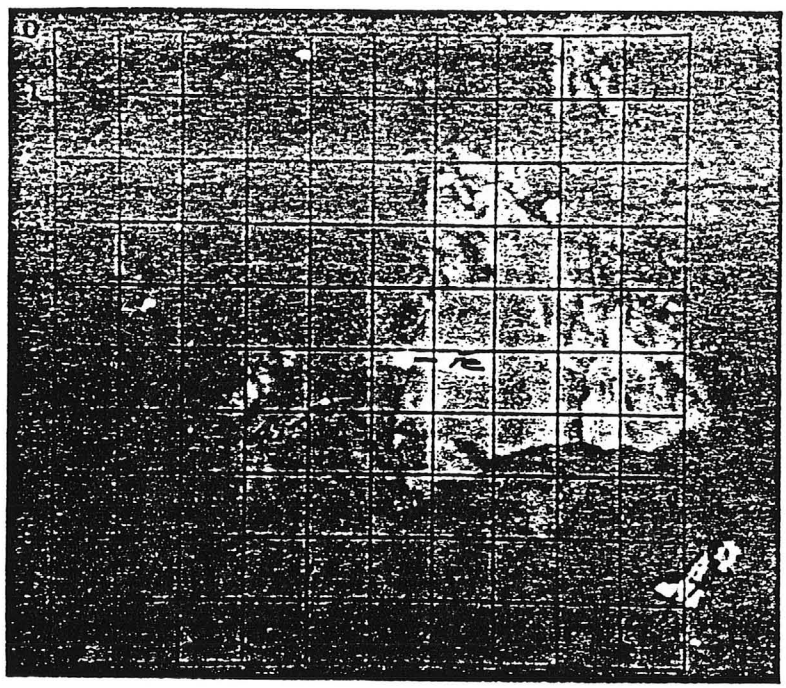
Trash iron - -1% - White metallic, isotropic, moderate hardness and is well polished. Occurs as curved "shavings" added during sample preparation. Is in part bordered by oxidation products.

Non-metallic gangue - 98% .



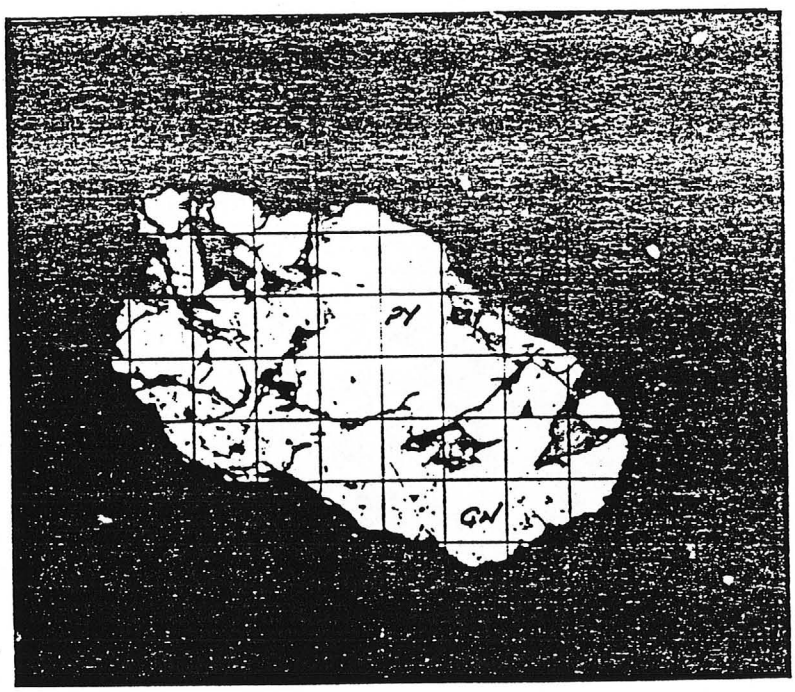
P.S. 8227A (P1452-5, Leach Residue Heavies). Polished section photomicrograph of native gold (Au) with goethite oxidation pseudomorphs and locked in quartz gangue. Plain light, X250. Each square of grid is 32 microns on an edge.

M-184



P.S. 8227A0 (P1452-3, Leach Residue). Polished section photomicrograph of micron-sized native gold particle (Au) locked in vein quartz and near larger silicate grain that is bordered by trash iron fragment. Plain light, X650. Each square of grid is 13 microns on an edge.

M-185



P.S. 822740 (P1452-5, Leach Residue). Polished section photomicrograph of composite grain in which pyrite (py) is bordered by galena (gn). Plain light, X650. Each square of grid is 13 microns on an edge.

M-186

P.S. 8229AQ (P1452-6, Leach Residue). Minor cerargyrite(?) with remnants of galena and pyrite in rather strongly goethite stained sample.

Galena - -1% - White, isotropic and with well developed cleavage, low hardness and is well polished. Occurs as liberated cleavage fragments scattered through section, and fragments at times show oxidative corrosion at grain margins. Not seen in contact with other sulfides. Shows positive microchemical test for silver.

Pyrite - -1% - Pale yellow color, isotropic, hard and is well polished. Scarce remnants present as liberated fragments with oxidized margins, rarely present as irregularly shaped inclusions in goethite oxidation pseudomorphs. Was originally the dominant sulfide component of vein and host alteration assemblage.

Cerargyrite(?) - -1% - Medium gray in polished surface and with very strong pale yellow internal reflections, low hardness and is well polished. Present as liberated aggregates and as composites with vein quartz. Properties are not sufficiently distinctive in polished surface to allow positive identification from optics - and the material described here could include some jarosite. Yields positive microchemical test for silver.

Goethite - 1% - Light gray with bluish tint, anisotropic but with polarization colors largely masked by reddish brown internal reflections, highly variable hardness and perfection of polish. Present as liberated grains and as composites with siliceous gangue. Deposited both as open space fillings and as oxidation pseudomorphs after pyrite. Former material has more irregular outlines and shows complex concentric banding.

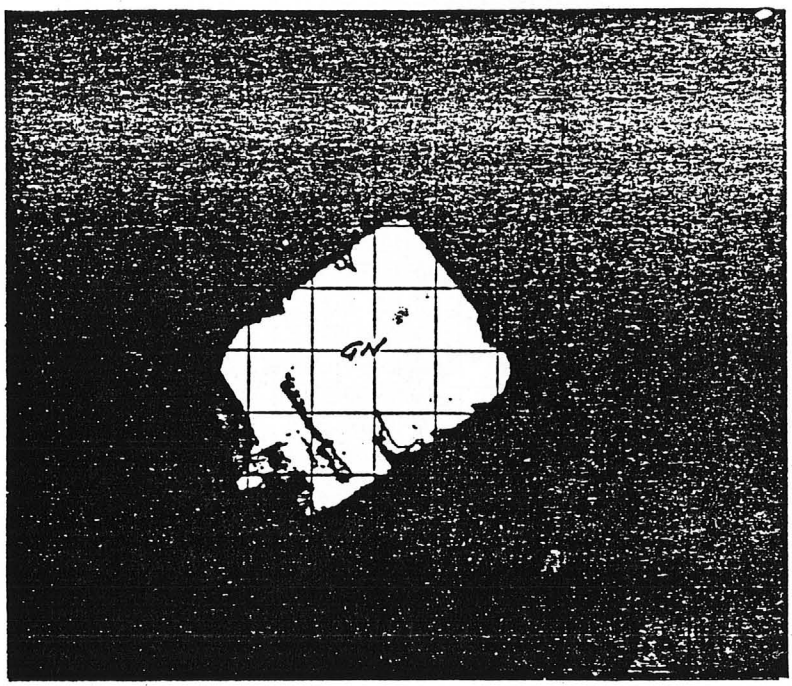
Rutile - -1% - Light gray and at times with violet tint, anisotropic but with polarization colors masked by strong white to pale yellowish brown internal reflections, hard and is well polished. Observed only as small inclusions in altered host fragments - and is formed from titanian accessories of the host suite.

Trash iron - -1% - White metallic, isotropic, moderate hardness and is well polished. Present as small

P.S. 8229AQ (P1452-6, Leach Residue).

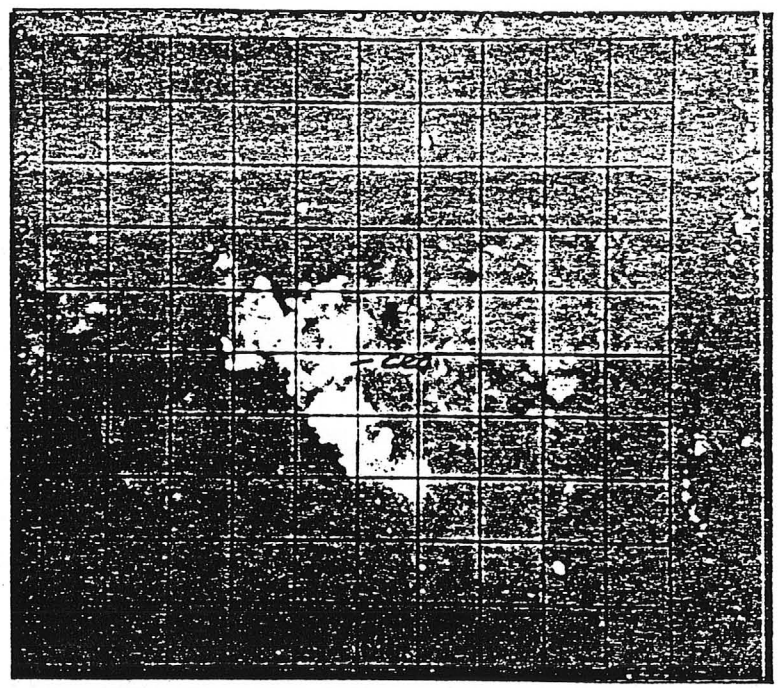
"shavings" added during sample preparation. Often shows corrosion and oxidation at grain margins.

Non-metallic gangue - 98%.



P.S. 8229A0 (P1452-6, Leach Residue). Polished section photomicrograph of galena cleavage fragment with some oxidation at grain margins. Plain light, X650. Each square of grid is 13 microns on an edge.

M1-189



P.S. 8229A (P1452-6, Leach Residue). Polished section photomicrograph of cerargyrite(?) (crg) aggregate adjacent to quartz gangue fragment. Most of cerargyrite grain is below polished surface. Plain light, X650. Each square of grid is 13 microns on an edge.

P.S. 8432AQ (P1452-1, Leach Residue). Cerargyrite(?) with remnant galena-pyrite-sphalerite-chalcopyrite in sample with moderately strong goethite oxidation.

Galena - -1% - White to light gray, isotropic and shows well developed triangular cleavage pits, low hardness and is well polished. Observed only as liberated cleavage fragments, and at times shows oxidative corrosion at some grain margins. Yields positive microchemical test for silver.

Pyrite - -1% - Pale yellow color, either isotropic or with weak anomalous anisotropism, hard and is well polished. Occurs mostly as liberated particles having oxidative corrosion at grain margins. Also rarely as composite grains with siliceous gangue. In one fragment present as irregularly shaped grains bordered by sphalerite.

Sphalerite - -1% - Medium gray, isotropic and shows yellowish brown internal reflections, moderate hardness and is well polished. Observed in single particle as composite with and apparently replacing anhedral pyrite. Grain margins show some oxidative corrosion.

Chalcopyrite - -1% - Bright yellow color and with faint greenish tint in polished surface, anisotropic and with polarization colors of green to blue, moderate hardness and is well polished. Observed as single liberated fragment with oxidative corrosion on one edge of grain. Not seen in contact with other opaques.

Cerargyrite(?) - -1% - Medium gray and with very strong development of pale yellow internal reflections, low hardness and is well polished. Present both as liberated particles and in composites with quartz gangue. Could possibly b in part a jarosite mineral on the basis of polished section optics.

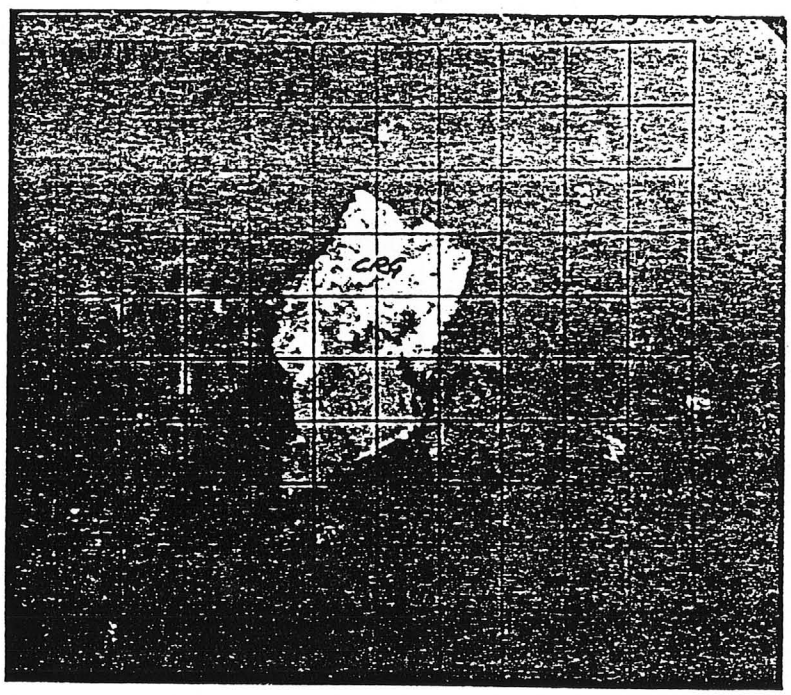
Goethite - 1% - Light to medium gray with bluish tint, anisotropic but with polarization colors largely masked by reddish brown internal reflections, highly variable hardness and perfection of polish. Occurs alone and with quartz as oxidation pseudomorphs after pyrite.

P.S. 8432AQ (P1452-1, Leach Residue).

Rutile - -1% - Light gray with violet tint, anisotropic but with polarization colors masked by almost colorless internal reflections, hard and is well polished. Occurs as small and irregularly shaped aggregates enclosed by siliceous gangue, and is an alteration product of original titanian accessories of host assemblage.

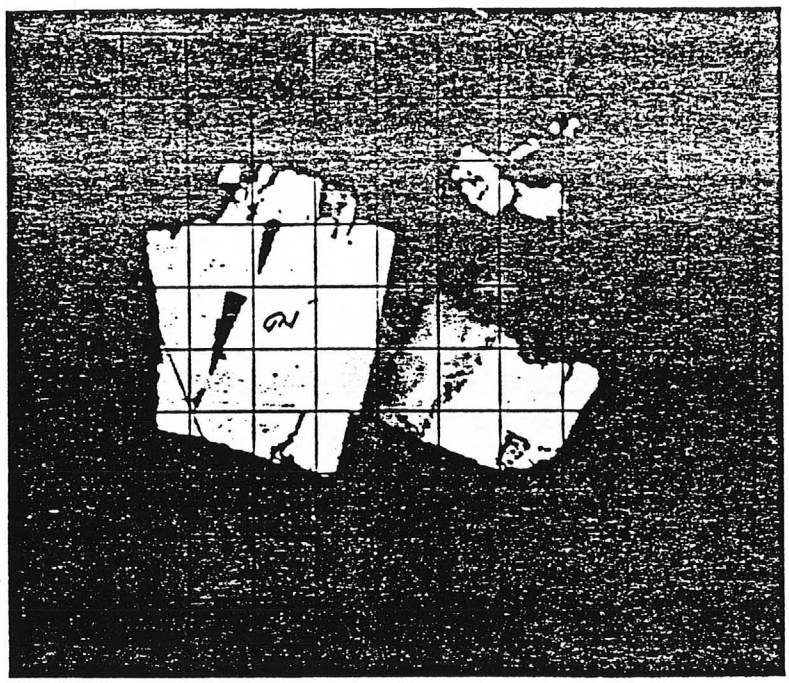
Trash iron - -1% - White metallic, isotropic, moderate hardness and is well polished. Present as small curved "shavings" added during sample preparation. Shows some oxidation at grain margins.

Non-metallic gangue - 98%.



P.S. 8432A[illegible] (P1452-1, Leach Residue). Polished section photomicrograph of cerargyrite (crg) with quartz gangue in fragment from leach residue. Plain light, X630. Each square of grid is 13 microns on an edge.

M193



P.S. 8432A9 (P1452-1, Leach Residue). Polished section photomicrograph of galena fragments showing well developed triangular cleavage pits. Plain light, X650. Each square of grid is 13 microns on an edge.

M194

RUSSELL M. HONEA
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December 8, 1987

Richard S. Kunter
Homestake Mining Company
1726 Cole Blvd.
Golden, Colorado 80401

Re: BVO Project, AZ

Dear Richard:

Enclosed is a polished section description for one of the BVO Project samples that was inadvertently left out of my report dated November 24, 1987. Photomicrographs for the sample were included in the previous report.

Sorry for the mix up.

Sincerely,

Russell M. Honea

Encl.

M-195

P.S. 8589AQ (Head). Minor remnant pyrite in rather strongly oxidized (goethite-bearing) sample. Contains single orpiment particle as probable contaminant.

Orpiment - -1% - Light to medium gray, strongly bireflectant, strongly anisotropic but with polarization colors largely masked by strong pale yellow internal reflections, low hardness and is well polished, well developed cleavage. Occurs as single larger grain in which associated with minor pyrite. In view of all available data for the sample set I believe this to be contamination added inadvertently during polished section preparation.

Pyrite - -1% - Pale yellow color, either isotropic or with very weak anomalous anisotropism, hard and is well polished. Present in trace amount both as small remnant grains locked in siliceous gangue and associated with orpiment particle. Was originally the dominant sulfide - but is very largely oxidized to goethite.

Goethite - 1+% - Light to medium gray with bluish tint, anisotropic but with polarization colors largely masked by reddish brown internal reflections, highly variable hardness and perfection of polish. Occurs as oxidation pseudomorphs after pyrite both in liberated particles and as composites with siliceous gangue.

Rutile - -1% - Light gray with violet tint, anisotropic but with polarization colors masked by strong white internal reflections, hard and is well polished. Present as very fine grained aggregates enclosed by siliceous gangue and is formed by alteration of titanian accessories from the host assemblage.

Trash iron - -1% - White metallic, isotropic, moderate hardness and is well polished. Present as small curved "shavings" added during sample preparation.

Non-metallic gangue - 98%

M196

Appendix 4

B. V. O. Stack Screen Fire Assays

Spl No	Orig Wt gms	Screen	Spl Wt gms	Au gms	Tot.Au gms	Ag gms	Tot.Ag gms	Ratio Au:Wt	Ratio Ag:Wt
8227	2905	20	218.03	0.857	6.406	2.09	15.623	0.0294	0.0717
Verdstone		40	282.54	0.918	8.893	2.02	19.568	0.0315	0.0693
		80	253.22	1.637	14.212	1.87	16.235	0.0561	0.0641
		120	114.56	0.762	2.993	1.86	7.306	0.0261	0.0638
		140	206.70	0.582	4.125	1.62	11.481	0.0200	0.0555
		-140	202.14	0.569	3.943	1.68	11.643	0.0195	0.0576
	2905		1277.19		40.572		81.856	0.0304	0.0637
8229	1468	20	248.13	0.118	1.004	4.23	35.986	0.0040	0.1450
Verdstone		40	256.24	0.047	0.413	3.67	32.242	0.0016	0.1258
		80	187.17	0.047	0.302	4.14	26.597	0.0016	0.1419
		120	64.90	0.057	0.127	4.14	9.212	0.0020	0.1419
		140	43.19	0.057	0.084	2.71	4.013	0.0020	0.0929
		-140	105.07	0.121	0.440	2.89	10.510	0.0041	0.0991
	1468		905.70		2.370		118.531	0.0026	0.1245
8432	4352	20	214.07	0.206	1.512	2.1	15.413	0.0071	0.0720
Verdstone		40	213.87	0.116	0.851	1.8	13.199	0.0040	0.0617
		80	238.96	0.081	0.664	1.61	13.191	0.0028	0.0552
		120	202.02	0.081	0.561	1.76	12.190	0.0028	0.0603
		140	242.92	0.093	0.775	1.89	15.741	0.0032	0.0648
		-140	144.68	0.114	0.565	2.12	10.516	0.0039	0.0727
			1256.52		4.927		80.250	0.0039	0.0645
8578		20	187.62	0.090	0.579	0.81	5.210	0.0031	0.0278
Bronco		40	163.53	0.060	0.336	0.89	4.990	0.0021	0.0305
		80	329.11	0.045	0.508	0.65	7.334	0.0015	0.0223
		120	79.96	0.040	0.110	0.5	1.645	0.0014	0.0206
		140	42.13	0.068	0.098	0.73	1.054	0.0023	0.0250
		-140	175.24	0.086	0.517	0.88	5.287	0.0029	0.0302
			977.59		2.148		25.521	0.0022	0.0261
8583	3184	20	175.47	0.075	0.451	0.47	2.828	0.0026	0.0161
Bronco		40	175.22	0.036	0.216	0.38	2.283	0.0012	0.0130
		80	171.65	0.031	0.183	0.39	2.298	0.0011	0.0134
		120	112.54	0.036	0.139	0.27	1.042	0.0012	0.0093
		140	71.8	0.039	0.095	0.33	0.812	0.0013	0.0113
		-140	258.37	0.053	0.469	0.35	3.100	0.0018	0.0120
			965.25		1.555		12.363	0.0015	0.0125
8589	2968	20	215.27	0.034	0.251	0.12	0.886	0.0012	0.0041
Bronco		40	194.49	0.008	0.053	0.06	0.400	0.0003	0.0021
		80	289.25	0.005	0.050	0.13	1.289	0.0002	0.0045
		120	50.55	0.006	0.010	0.11	0.191	0.0002	0.0038
		140	112.88	0.007	0.027	0.08	0.310	0.0002	0.0027
		-140	230.74	0.007	0.055	0.19	1.503	0.0002	0.0065
			1093.19		0.447		4.578	0.0004	0.0039

Spl.No	Wt %	Au %	Ag %	Wt%/Au%	Wt%/Ag%
8227	17.071	15.79	19.09	0.92	1.12
	22.122	21.92	23.91	0.99	1.08
	19.826	35.03	19.83	1.77	1.00
	8.970	7.38	8.93	0.82	1.00
	16.184	10.17	14.03	0.63	0.87
	15.827	9.72	14.22	0.61	0.90
	100.000	100.00	100.00		
8229	27.40	42.36	30.36	1.55	1.11
	28.29	17.42	27.20	0.62	0.96
	20.67	12.73	22.41	0.62	1.08
	7.17	5.35	7.77	0.75	1.08
	4.77	3.56	3.39	0.75	0.71
	11.71	18.57	8.87	1.59	0.76
	100.00	100.00	100.00		
8432	17.04	30.69	19.21	1.80	1.13
	17.02	17.26	16.45	1.01	0.97
	19.02	13.47	16.44	0.71	0.86
	16.08	11.39	15.19	0.71	0.94
	19.33	15.72	19.62	0.81	1.01
	11.51	11.48	13.10	1.00	1.14
	100.00	100.00	100.00		
8578	19.19	26.96	20.42	1.40	1.06
	16.73	15.66	19.55	0.94	1.17
	33.67	23.64	28.74	0.70	0.85
	8.18	5.11	6.45	0.62	0.79
	4.31	4.57	4.13	1.06	0.96
	17.93	24.06	20.72	1.34	1.16
	100.00	100.00	100.00		
8583	18.18	29.03	22.87	1.60	1.26
	18.15	13.91	18.47	0.77	1.02
	17.80	11.75	18.59	0.66	1.04
	11.66	8.94	8.43	0.77	0.72
	7.44	6.18	6.57	0.83	0.88
	26.77	30.20	25.08	1.13	0.94
	100.00	100.00	100.00		
8633	19.69	56.17	19.34	2.85	0.98
	17.79	11.94	8.74	0.67	0.49
	26.46	11.10	28.16	0.42	1.06
	4.62	2.33	4.16	0.50	0.90
	10.33	6.06	6.76	0.59	0.65
	21.11	12.40	32.83	0.59	1.56
	100.00	100.00	100.00		

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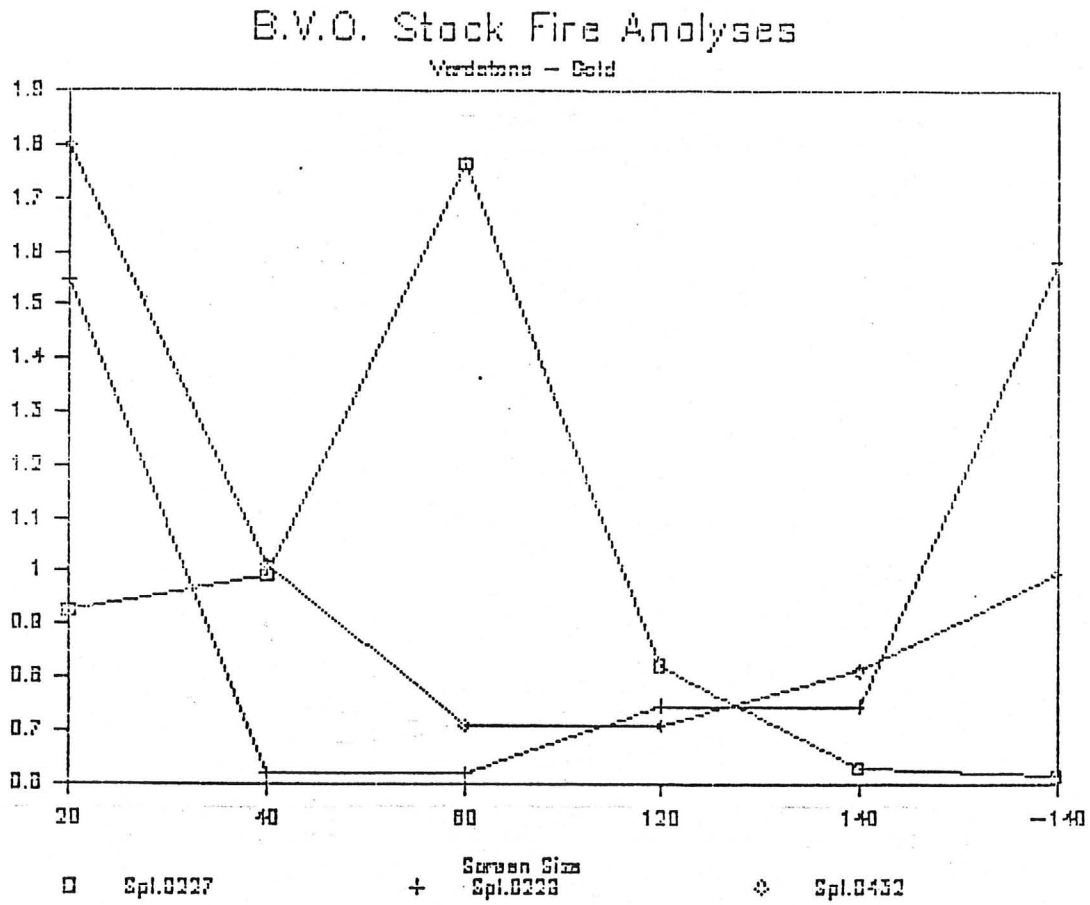
B.V.O. Stock Fire Analyses
Verdstone - Gold
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
20
40
60
120
140
-140
Screen Size
Spl.0227
Spl.0228
Spl.0452

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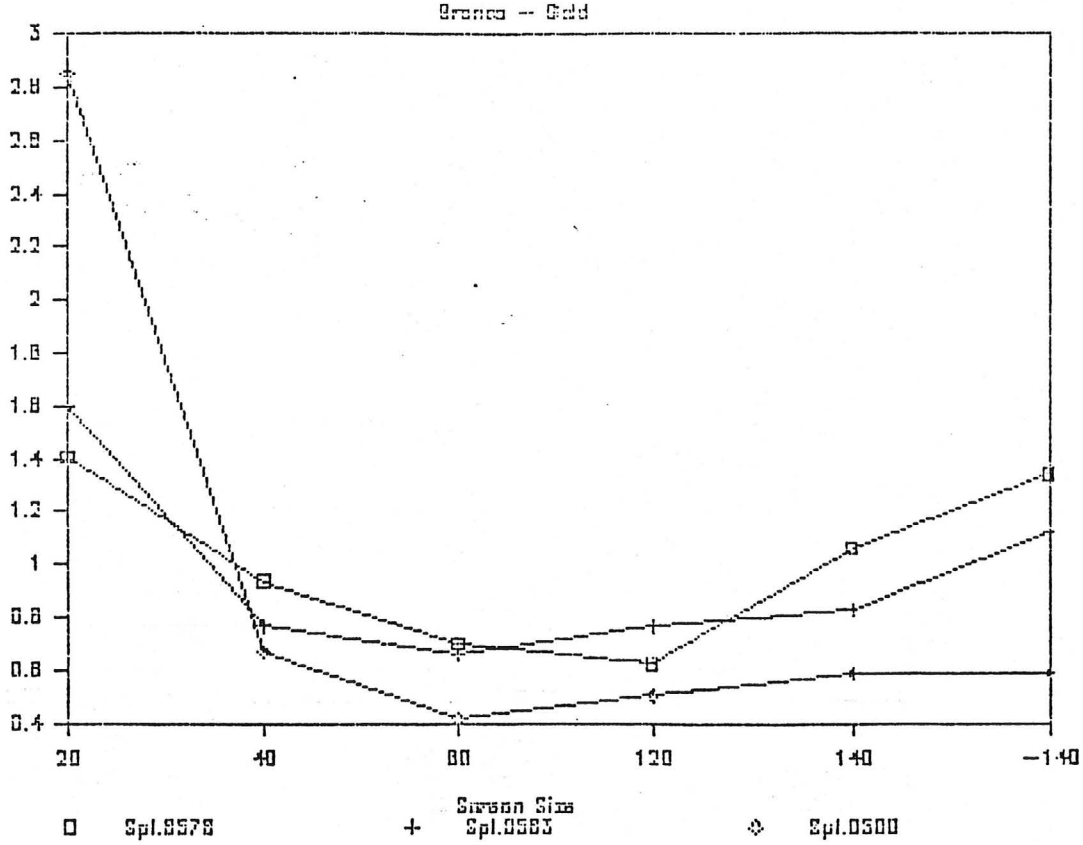
B.V.O. Stock Fire Analyses

Bronco -- Odd



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B.V.O. PROJECT

Drill Hole Coordinates

PRE HOMESTAKE DRILLING

Drill Hole #	Northing	Easting	Elevation of Collar Ft.	Azimuth	Angle	Total Depth Ft
V-1	49,861	52,986	1718.5'	14°	-45°	206'
V-2	49,865	52,982	1718.5'	14°	-60°	83'
V-3	49,861	52,990	1718.4'		-90°	93'
V-4	49,893	52,900	1718.5'	14°	-60°	256'
V-5	49,902	52,706	1711.8'	14°	-45°	195'
V-6	49,853	53,041	1718'	14°	-45°	102'
V-7	49,849	53,040	1718'	14°	-67.5°	98'
V-8	49,847	53,092	1716.4'	14°	-60°	97'
V-9	49,927	53,056	1712.4'	14°	-60°	50'
V-10	49,735	53,112	1726.3'	14°	-60°	146'
V-11	49,765	52,973	1731.0'	14°	-55°	110'
V-12	49,781	52,920	1729.5'	14°	-67.5°	96'
V-13	49,776	52,922	1730.1'		-90°	110'
V-14	49,769	52,974	1728.8'		-90°	101'
V-15	49,779	52,924	1731.0'	194°	-67.5°	95'
V-16	49,778	52,920	1729.9'	194°	-80°	102'
V-17	49,673	52,904	1744.4'		-90°	117'
V-18	49,680	52,860	1743.0'		-90°	124'
V-19	49,718	52,715	1724.5'		-90°	186'
V-20	49,749	52,614	1713.8'		-90°	133'
V-21	49,786	52,520	1705.5'		-90°	144'
V-22	49,556	52,927	1756.6'		-90°	283'
V-23	49,658	52,539	1721.5'		-90°	101'
V-24	49,543	52,974	1763.2'		-90°	232'
V-25	49,568	52,879	1751.5'		-90°	267'
V-26	49,664	52,949	1744.6'		-90°	139'
V-27	49,652	52,995	1744.2'		-90°	141'
V-28	49,639	52,969	1745.0'		-90°	119'
V-29	49,585	52,830	1750.7'		-90°	257'
V-30	49,594	52,780	1747.2'		-90°	245'
V-31	49,603	52,739	1742.5'		-90°	223'
V-32	49,611	52,688	1735.0'		-90°	197'
V-33	49,627	52,638	1732.3'		-90°	189'
V-34	49,694	52,802	1735.6'		-90°	188'
V-35	49,812	52,420	1697.9'		-90°	270'
V-36	49,773	52,891	1726.9'		-90°	102'
V-37	49,706	52,342	1702.5'		-90°	173'
V-38	49,754	53,011	1728.7'		-90°	89'

Drill Hole #	Northing	Easting	Elevation of Collar Ft.	Azimuth	Angle	Total Depth Ft
V-13-RC	49,772	52,922	1730'		-90°	110'
V-18-RC	49,685	52,859	1742.9'		-90°	160'
V-31-RC	49,598	52,738	1741.5'		-90°	250'
V-38-RC	49,748	53,011	1729.0'		-90°	99'
V-39-RC	49,502	52,722	1762.4'		-90°	360'
V-40-RC	49,907	53,053	1713.5'		-90°	60'
V-100-RC	49,427	52,423	1749.8'		-90°	405'
V-101-RC	49,373	52,888	1785.5'		-90°	485'
VRC-85-1	49,948	53,008	1712.1'		-90°	100'
VRC-85-2	59,905	52,997	1714.6'		-90°	80'
VRC-85-3	49,877	53,106	1715.0'		-90°	130'
VRC-85-5	49,834	52,889	1721.5'		-90°	100'
VRC-85-6	49,810	52,984	1723.0'		-90°	100'
VRC-85-7	49,795	53,079	1719.5'		-90°	120'
VRC-85-8	49,806	52,775	1723.0'		-90°	100'
VRC-85-9	49,727	52,868	1736.5'		-90°	100'
VRC-85-10	49,712	52,962	1736.0'		-90°	130'
VRC-85-11	49,680	52,848	1744.0'		-90°	170'
VRC-85-12	49,634	52,969	1746.0'		-90°	180'
VRC-85-13	49,665	52,703	1731.0'		-90°	230'
VRC-85-14	50,014	52,939	1709.0'		-90°	80'
VRC-85-15	49,903	52,797	1715.0'		-90°	80'
VRC-85-16	50,019	52,608	1722.0'		-90°	200'
VRC-85-17	50,468	52,234	1734.0'		-90°	195'
VRC-85-18	50,142	51,151	1710.0'		-90°	100'
VRC-85-19	49,733	53,408	1725.0'		-90°	230'
VRC-85-20	49,925	53,214	1719.0'		-90°	85'
VRC-85-21	49,210	51,970	1712.0'		-90°	140'
VRC-85-22	49,618	53,150	1745.0'		-90°	180'
VRC-85-23	49,709	53,208	1727.0'		-90°	150'
VRC-85-24	49,820	53,182	1719.0'		-90°	100'
VRC-85-25	50,426	52,551	1745.0'		-90°	115'
VRC-85-26	49,258	52,010	1718.0'		-90°	130'
VRC-85-27	49,172	51,933	1711.0'		-90°	100'

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Drill Hole #	Northing	Easting	Elevation of Collar Ft.	Azimuth	Angle	Total Depth Ft
87-1*	50,853.5	53,251.2	1968.8'	N65°E	-50°	173'
87-2*	50,842.9	53,232.7	1968.3'	S65°W	-60°	250'
87-3**			1958'	N25°E	-70°	45'
87-4*	48,873.5	51,819.8	1692.8'		-90°	300'
87-5*	48,708.8	51,947.1	1637.3'		-90°	200'
87-6*	49,063.5	51,910.3	1713.3'	N70°W	-68°	250'
87-7*	48,214.4	52,078.6	1626.9'		-90°	300'
87-8*	50,605.8	53,555.7	1958.3'	N15°W	-60°	225'
87-9*	50,736.1	53,413.9	1970.0'	N19°W	-60°	300'
87-10*	50,603.9	53,543.9	1958.8'		-90°	50'
87-11*	49,337.2	52,698.1	1801.9'		-90°	420'
87-12*	49,203.0	52,654.5	1844.9'		-90°	500'
87-13*	49,605.0	52,742.0	1743.4'		-90°	265'
87-14*	50,260.3	53,204.0	1767.7'		-90°	145'
87-15*	49,899.5	52,996.2	1713.6'		-90°	65'
87-16*	46,325.8	53,730.0	1566.8'	S30°W	-60°	240'
87-17**	50,780	53,330	1970'		-90°	425'
87-18**	50,660	53,510	1968'	N20°W	-60°	260'
87-19**	46,510	53,440	1575'	S30°W	-60°	250'
87-20**	46,430	53,580	1570'		-90°	150'
87-21**	46,610	54,380	1570'		-90°	125'
87-22**	51,080	53,590	1970'		-90°	253.5'
87-23**	48,280	52,850	1790'		-90°	200'
87-24*	49,063	51,910	1713'		-90°	165'
87-25**	50,630	53,240	1900'		-90°	330'
87-26**	49,240	53,750	1790'		-90°	290'
87-27**	48,860	52,020	1740'		-90°	200'

* R. Petray Survey
** Brunton and Tape

MDJ/nlm
2/03

M-204

SAMPLER: PROJECT: 15-0 DRILL HOLE NO. 87-7 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	F opt ASSAYS Au	F opt ASSAYS Ag			REMARKS
8/5/87					4251AR	0	5	5	.005	0.08			BRONCO -50° N65E
					52	5	10		.007	<0.01			
					53	10	15		.01	0.08			
					54	15	20		.018	0.05			
					55	20	25		.026	0.04			
					56	25	30		.012	<0.01			
					57	30	35		.011	0.09			
					58	35	40		.029	0.11			
					59	40	45		.026	0.18			
					4260AR	45	50		.033	0.47			
					61	50	55		.053	0.50			
					62	55	60		.052	0.38			
					63	60	65		.016	0.11			
					64	65	70		.021	0.23			
					65	70	75		.012	0.08			
					66	75	80		.015	0.09			
					67	80	85		.021	0.09			
					68	85	90		.008	0.11			
					69	90	95		.026	0.27			
					4270AR	95	100		.027	0.92			
					71	100	105		.020	0.84			
					72	105	110		.027	0.33			
					73	110	115		.015	0.18			
					74	115	120		.011	0.12			
					75	120	125		.018	0.16			
					76	125	130		.009	0.11			
					77	130	135		.012	0.37			
					78	135	140		.008	0.53			
					79	140	145		.004	0.98			
					4280AR	145	150		.007	0.54			
					81	150	155		<.001	0.55			
					82	155	160		.003	0.51			
					83	160	165		.005	0.84			
					84	165	170		.011	0.33			
					4285AR	170	173		.011	0.78			

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BYO-87-1

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
5-173' AND. PDR ANHEDRAL PHENOS OF QTZ IN S.P OF FELDSPAR & MAFICS. DOM CREAM COLORED. 15-125 INCR IN SILICA FRGS.-VEIN? 40-80 FRGS BECOME DARK REDDISH-BROWN.	0-15' WEAK ARGILLIC ALT PERVASIVE. 15-25 WEAK IGNEOUS. SILN - PERVASIVE. 25-173 SILICA FLOODED. 40-55' CHALCEDONY ALT ASSOC W/ DARK REDDISH BROWN FRGS. 125-173' WEAK TO MOD PROP ALT NOTED.	15- QTZ FRGS UP TO 10% OF SPL.-VEIN? 55-125' BANDED STOCKWORK OF QUARTZ VEINS. QTZ FRGS MAKE UP TO 10-20% OF SPL.	0-15. FeOx (H+2) DOM ON & ADJ TO FRX. 15-40 FeOx (4) ON & ADJ to FRX (LOSS OF (H)). 40- FOx WEAK & (H)+4 ON & ADJ to FRX. 115-173' DECR FOx & INCR FeOx (H)-DOM ON & ADJ to FRX.				110-173 FRGS BECOMING LARGE & ANGULAR. INDICATING WELL FRX ROCK. THE REDDOCKS FROM THIS ZONE WERE POOR & DRILLING RATE WAS SLOW. T.D @ 173'							

SAMPLE RECORD

SAMPLER:

PROJECT BVO- DRILL HOLE NO. 87-2 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	Fopt ASSAYS Au	Ag			REMARKS
					4286AR	0	5						BRONCO -60 S65W
					87	5	10						
					88	10	15		·010	·12			
					89	15	20		·015	·20			
					4290AR	20	25		·009	·20			
					91	25	30		·006	·14			
					92	30	35		·008	·16			
					93	35	40		·011	·03			
					94	40	45		·009	·46			
					95	45	50		·008	·29			
					96	50	55		·010	·08			
					97	55	60		·007	·12			
					98	60	65		·011	·18			
					99	65	70		·007	·14			
					4300AR	70	75		·013	·12			
					01	75	80		·011	·19			
					02	80	85		·012	·15			
					03	85	90		·012	·11			
					04	90	95		·013	·01			
					05	95	100		·009	·08			
					06	100	105		·005	·03			
					07	105	110		·009	·08			
					08	110	115		·006	·13			
					09	105	120		·012	·16			
					4310AR	120	125		·007	·26			
					11	125	130		·025	·15			
					12	130	135		·016	·11			
					13	135	140		·020	·13			
					14	140	145		·015	·11			
					15	145	150		·014	·19			
					16	150	155		·016	·13			
					17	155	160		·014	·18			
					18	160	165		·005	·13			
					19	165	170		·005	·13			
					4320AR	170	175		·003	·08			
					21	175	180		·004	·19			
					22	180	185		·007	·28			
					23	185	190		·007	·35			
					24	190	195		·008	·15			
					25	195	200		·015	·19			
					26	200	205		·013	·20			
					27	205	210		·004	·10			
					28	210	215		·001	·06			
					29	215	220		·004	·18			
					4330AR	220	225		·004	·11			
					31	225	230		·002	·06			
					32	230	235		<.001	·07			
					33	235	240		·002	·08			
					34	240	245		·002	·02			
					4335AR	245	250		·001	·07			

M 206

SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVO-87-2

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-10' NO SAMPLE											
10- AND POR. FINE GRAINED EUHED SIP XTALS OF MAFCS. & FELDSPAR. LT GRN-GRY IN COLOR. 65-100' BRECX TEXT 10 AND ? MICROBRECX CEMENTED BY SILICA. 160-220 AND BECOMING > TUFFACEOUS. 220-250 AND POR. LIGHT GREEN IN COLOR.	10-15 MOD PERV. SILICIFICATION. 15-220' STRONG SILICA FLOODING. 25-30. STRONG CALCAREOUS ALT. LOCALLY. WEAK TO MOD. PROP ALT. ALSO NOTED. 220-250' WEAK TO MOD PROP. ALT. WEAK ARGILLIC ALT.	80- QTZ FEATS- VEINS / STOCKWORK. 5% ± OF SPCS. VEINS TO 2MM WIDE.	10-13' RARE & WEAK FeOx - PSEUDOMORPH AFTER SULPHIDES + RARE, WEAK Tr OX FEX. 50-55. INCR FeOx(H) ON FEX - WEAK-MOD! 130-170. MOD FeOx(H) ON & ADJ to FEX. 170-220 FeOx(H) ON & ADJ to FEX. WEAK to MOD. 220-250 TR OX - PSEUDOMORPHS AFTER SULPHIDES							

SAMPLE RECORD

SAMPLER:

PROJE BVO

DRILL HOLE 87-3 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	F opt. ASSAYS Au	Ag			REMARKS BRONCO
					8079AP	0	5		.011	<.01			-70 N25E
					80	5	10		.016	.14			
					81	10	15		.010	<.01			
					82	15	20		.006	.02			
					83	20	25		.008	.15			
					84	25	30		.011	.10			
					8085AP	30	35		.009	.11			

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVD-87-3.

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-40' AND PRE. ENDS OF FELD INE GRAINED MATRIX. 35-40 MEAD. BRXN 20'N VEINS NOTED	0-40' ABD. PERVASIVE SILICIFICATION. WEAKLY CALCAREOUS LOCALLY. MOD PROP ALT'D MAFICS NOTED.	0-40' QTZ VEINING - STRKWORK. VEINING IS HAIRLINE TO 1MM. QTZ FRGS MAKE UP APPROX 10-15% OF SPL.	0-40' FeO (H ≈ 4) ON & ADJ TO FRX.				TD 40'. HOLE ABAN. DUE TO V. POOR REC. OF CUTTINGS.							

SAMPLE RECORD

SAMPLER:

PROJECT BVO-

DRILL HOLE NO. 87-4 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS Morgan
					4336AR	0	5						VERTICAL
					37	5	10						
					38	10	15		<.001	<.01			
					39	15	20						
					4340AR	20	25						
					41	25	30		<.001	.09			
					42	30	35		<.001	<.01			
					43	35	40		<.001	.02			
					44	40	45		<.001	.03			
					45	45	50		<.001	<.01			
					46	50	55		<.001	<.01			
					47	55	60		<.001	<.01			
					48	60	65		<.001	<.01			
					49	65	70		<.001	<.01			
					4350AR	70	75		.001	<.01			
					51	75	80		<.001	.10			
					52	80	85		<.001	.09			
					53	85	90		<.001	.12			
					54	90	95		<.001	.16			
					55	95	100		<.001	.08			
					56	100	105		<.001	.11			
					57	105	110		<.001	.12			
					58	110	115		<.001	.11			
					59	115	120		<.001	.17			
					4360AR	120	125		<.001	.12			
					61	125	130		<.001	.05			
					62	130	135		<.001	.15			
					63	135	140						
					64	140	145		<.001	<.01			
					65	145	150						
					66	150	155						
					67	155	160						
					68	160	165						
					69	165	170						
					4370AR	170	175		<.001	.03			
					71	175	180						
					72	180	185						
					73	185	190						
					74	190	195						
					75	195	200						
					76	200	205						
					77	205	210						
					78	210	215						
					79	215	220		<.001	.05			
					4380AR	220	225						
					81	225	230						
					82	230	235						
					83	235	240						
					84	240	245						
					85	245	250						
					86	250	255		<.001	<.01			
					87	255	260						
					88	260	265						
					89	265	270						
					4390AR	270	275						
					91	275	280						
					92	280	285						
					93	285	290		<.001	<.01			
					94	290	295						
					95	295	300						

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SCALE _____
LOGGED BY: _____

PROJECT B.V.O.

HOLE NO. 87-4

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-25 OVB FRGS OF BASALT, BANDED TUFFS & AND IN CALCRETE & FELSIC MATRIX														
25-85' FELSIC TUFF LIGHT MOTTLED RED-WHITE TO MOD RED IN COLOR. RARE FELD PHENOS. TO 2MM.	25-85' MOD to STRONG ARGILLIC ALT.		25-85' MOD PERV. FeOx (H). SYN?											
85-90' AND PCR (OR BRXX). EUHED PHENO OF FELDSPAR & ALT MAFICS IN F.G. MATRIX. INDURATED.	85-90' STRONG PROP.-WEAK ARGILLIC ALT.		85-90 GRASS IS MOD PERV. FeOx (H) STAINED.											
90-200 AND TUFF FINE GRAINED PORS MOD RED COLOR. RARE ALT. MAFIC PSUDOMORPHS 190-195 COLOR CHANGE TO DK PURPLE.	90-130 STRONG ARGILLIC ALT TO APPROX 60% OF SPL. WEAK ARGILLIC ALT TO REMAINING 40%. 130- WEAK PERV. ARGILLIC ALT. STRONGER ON & ADJ. TO FRCX. 180-185' EPIDOTE PHENOS NOTED	160-165. DK GY CALCITE RICH FRG-VEIN? APPROX 5% OF SPL. COATING TO TUFF FRG - 2MM THICK.	90-200 PERV. MOD FeOx (H). SYN?				90-100' SMALL FRGS INDICATING POSS UNIFORM ROCK &/OR LACK OF FRX.							
200-210 AND PCR PHENOS OF FELD & MAFICS IN F.G. MATRIX.	200-210' PHENOS OF FELD ARE ARGILLIC ALT & CONTAIN CALCAREOUS RIMS. MAFICS ARE MOD to STRONG PROP. ALT.		200-210. MOTTLED PERV. FeOx (H) OF MATRIX SYN?				175-190' 20 OF SMALL FRGS. - UNIFORM ROCK &/OR LACK OF FRX?							
210-300' AND TUFF FINE GRAINED, LOCALLY PORPHYRITIC	210-300' MOD-STRONG PROP. WEAK ARGILLIC. WEAKLY-MOD PERV. CALCAREOUS.		210-300 UNIFORM PERV. FeOx (H).				TD @ 300'							

SAMPLE RECORD

SAMPLER:

PROJECT BVO- DRILL HOLE 87-5 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	Fopt. ASSAYS Au	ASSAYS Ag			REMARKS Morgan
					4396AR	0	5		N/S				VERTICAL
					97	5	10		<.001	.05			
					98	10	15						
					99	15	20		<.001	.06			
					4400AR	20	25		<.001	.02			
					01	25	30		<.001	.05			
					02	30	35		<.001	<.01			
					03	35	40		<.001	.05			
					04	40	45		<.001	<.01			
					05	45	50		<.001	<.01			
					06	50	55		<.001	<.01			
					07	55	60		<.001	<.01			
					08	60	65		<.001	<.01			
					09	65	70		<.001	<.01			
					4410AR	70	75		<.001	<.01			
					11	75	80		<.001	<.01			
					12	80	85		<.001	.06			
					13	85	90		<.001	<.01			
					14	90	95		<.001	.02			
					15	95	100		<.001	.02			
					16	100	105		<.001	.01			
					17	105	110		<.001	.07			
					18	110	115		<.001	.05			
					19	115	120		<.001	.01			
					4420AR	120	125		<.001	.03			
					21	125	130		<.001	.02			
					22	130	135		<.001	.04			
					23	135	140		<.001	.05			
					24	140	145						
					25	145	150		<.001	<.01			
					26	150	155						
					27	155	160						
					28	160	165		.002	<.01			
					29	165	170						
					4430AR	170	175						
					31	175	180						
					32	180	185						
					33	185	190		.004	<.01			
					34	190	195						
					4435AR	195	200						

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SCALE _____
LOGGED BY: _____

PROJECT BVO.

HOLE NO. BVO-87-5

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-5 No SPL. 5 OVB ? FRGS OF CALCEDONIC QUARTZ, BASALT & PORPHYRY IN CALCAREOUS MATRIX. 25-200' FELSIC TUFF FINE GRAINED. WHITE MAT'L WITH 20-30% FRGS OF PORV DK RED COLORED TUFF FRGS.	25-55 STRONG ARGILLIC ALTERATION. 50-60' STRONG ARG ALT RESTRICTED TO APPROX 30% OF SPL. : 70% IS MOD PROP ALT & CONTAINS EVIDENCE OF LIESEGANG BANDING. 60-80' STRONG ARG. AS 25-55.' 80-90' MOD PROP. & WEAK ARGILLIC. 90-110. STRONG to INT. ARGILLIC ALT. 140-200' STRONG ARGILLIC ALT. RESTRICTED TO APPROX 30% OF SPL. WEAK ARGILLIC ALT TO BULK OF SPL. 185-200' MODERATELY CALCAREOUS-PERVASIVE.							TD @ 200'							

50-60' LIESEGANG BANDING w/ REDS & MED YELLOW-ORANGE BANDS.

75-80. MOTTLED WHITE RED COLOR TO CLAYS.

80-90' MOD PERV. $FeOx$ (H) SYN?

90-140. MOTTLED APPARENCE to CLAYS. RED to WHITE.

140-200' PERV. $FeOx$(H) MOD, SYN?.

SAMPLE RECORD

SAMPLER:

PROJEC BVO -

DRILL HOLE N 87-6 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	F opt. ASSAYS Au	Ag	Au	Ag	REMARKS Morgan
					4436AR	0	5		<.001	.08			-68° N70W
					37	5	10		<.001	<.01			
					38	10	15		<.001	.01			
					39	15	20		<.001	.06			
					4440AR	20	25		<.001	.04			
					41	25	30		.001	.08			
					42	30	35		.001	.14			
					43	35	40		<.001	.10			
					44	40	45		<.001	.06			
					45	45	50		.018	.04			
					46	50	55		.035	.21			45-55 = [illegible]
					47	55	60		.012	.01			
					48	60	65		.046	.09			
					49	65	70		.003	.11			
					4450AR	70	75		.008	.13			
					51	75	80		.004	.08			
					52	80	85		.018	.18			
					53	85	90		.001	.03			
					54	90	95		<.001	.09			
					55	95	100		.001	.17			
					56	100	105		.002	.06			
					57	105	110		.010	.09			
					58	110	115		.015	.05			
					59	115	120		.003	.04			
					4460AR	120	125		.001	.03			
					61	125	130		<.001	<.01			
					62	130	135		<.001	.07			
					63	135	140		<.001	.02			
					64	140	145		<.001	.03			
					65	145	150						
					66	150	155						
					67	155	160						
					68	160	165		.001	.02	.001	.02	
					69	165	170						
					4470AR	170	175						
					71	175	180						
					72	180	185						
					73	185	190						
					74	190	195						
					75	195	200						
					76	200	205						
					77	205	210						
					78	210	215		<.001	.02			
					79	215	220						
					4480AR	220	225						
					81	225	230						
					82	230	235						
					83	235	240						
					84	240	245		<.001	<.01			
					4485AR	245	250						

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SCALE
LOGGED BY:

PROJECT B.V.O.

HOLE NO. BVO-87-6

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-50 Felsic Tuff? Fine to Medium Grained Tuff. Locally Porph. Andesitic(?) in Composition.	0-35 Strong Argillic Alt of Approx 15% Q SPL. 35'-65' Weak to Mod Arg Alt.		0- Pervasive Sulf.(?) FeOx (H). Bleached in Strongly Argillic Zones.								
50-65' "Vein" Sugary to Banded (Calcedonic).	50-65 And Frags. Dom Silicified.	50-65 Quartz Vein = Approx 80% of SPL.	50-65' Weak FeOx (H) on Frx & Coating Qtz Frags.								
65'-80' And Tuff Fine to Med Grained Indurated. Med Red in Color - Mottled.	65-80. Mod Argillic Alt.	65-80' Qtz Frags From Veins = 15-20% Q SPL.	65-80 Mottled FeOx (H) Perv. Sulf?								
80-85' "Vein" Sim to 50-65'			80-85 FeOx (H) on Frx								
85-105 And Tuff			85-105' Perv Sulf(?) FeOx (H)								
105-112' "Vein"											
112-250' And Tuff? Mafic Rich. Fine to Med Grained. Rare Porph Frags.	112'-120 Frags locally Silic. Locally indurated. 120-250' Unit = Friable.		112'-250' Perv. FeOx (H) Sulf(?). - Uniform Color to Frags - Mod-Dk Red/Brown.								
	185-190' Mod-Strong Argillic Alt.						TD @ 250'				

SAMPLE RECORD

SAMPLER:

PROJECT BYO -

DRILL HOLE NO. 87-7 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	F, opt ASSAYS Au	Ag			REMARKS
					4486AR	0	5						VERTICAL
					87	5	10						
					88	10	15		<.001	<.01			
					89	15	20						
					4490AR	20	25						
					91	25	30						
					92	30	35						
					93	35	40		<.001	.02			
					94	40	45						
					95	45	50						
					96	50	55						
					97	55	60		<.001	<.01			
					98	60	65						
					99	65	70		<.001	.06			
					4500AR	70	75		<.001	<.01			
					8001AP	75	80		<.001	<.01			
					02	80	85		<.001	.01			
					03	85	90		<.001	.05			
					04	90	95		<.001	.05			
					05	95	100		<.001	.06			
					06	100	105		<.001	.06			
					07	105	110		<.001	.07			
					08	110	115		<.001	.06			
					09	115	120		<.001	<.01			
					8010AP	120	125		<.001	.04			
					11	125	130						
					12	130	135						
					13	135	140						
					14	140	145						
					15	145	150		<.001	.05			
					16	150	155						
					17	155	160						
					18	160	165		<.001	.07			
					19	165	170		.001	.12			
					8020AP	170	175		.003	.08			
					21	175	180		<.001	.10			
					22	180	185						
					23	185	190						
					24	190	195		<.001	<.01			
					25	195	200						
					26	200	205						
					27	205	210		<.001	<.01			
					28	210	215						
					29	215	220						
					8030AP	220	225		<.001	<.01			
					31	225	230						
					32	230	235						
					33	235	240						
					34	240	245						
					35	245	250						
					36	250	255		<.001	.09			
					37	255	260						
					38	260	265						
					39	265	270						
					8040AP	270	275						
					41	275	280						
					42	280	285						
					43	285	290		<.001	.02			
					44	290	295						
					8045AP	295	300						

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVO-87-7

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-125 FELSIC TUFF ...RLAIN. MEDIUM, G...D BLEACHED W/ RARE PHNO'S OF MAFICS- 5-10% F.G. AND TUFF FRGS. W/ POTENTIAL MOD RED COLOR. - RARE QUARTZ FRGS. 5% DISS INDICATED W/ PRESENCE MAFICS.	0-125 BLEACHED ? STRONG PROPYLITIC ALTERATION. MAFICS TO CHLORITE. WEAKLY CALCAREOUS. AND. TUFF IS ONLY WEAKLY PROP. ALT W/ SLIGHT DISCOLORATION TO EDGES OF MAFIC XTALS.	85-90' GYPSUM VEINS &/or COATING TO FRX. 110-115 QTZ FRGS. SUGARY TO CALCEDONY FRGS COMPRISE APPROX 20% OF SPL.	AND TUFF IS PREV FeOx (?) SYN?							
125-200 AND TUFF FINE GRAINED. PREV. MOD RED COLOR. LOCALLY WEAKLY PORPHYRITIC W/ QTZ, FELD & MAFIC PHENOS NOTED.	125-200 WEAK to MOD PROP ALT. 177-182 ZONE OF STRONG ARGILLIC ALT. TO APPROX 50% OF SPL. MOD YELLOW TO MOD RED MOTTLED COLOR. 182-190 STRONG PROP ALT MAFICS - CHL & EPI. 175-200 MOD-STRONG PROP ALT. OF APPROX 50% OF SPL.	165-170 RARE MARLINE QTZ VEINLETS.	125-200 MOD FeOx PREV, THROUGHOUT FRGS SYN.?				125-140' FRG SIZE IS SMALL INDICATING POSS UNIFORM HARDNESS & LACK OF FRX.				
200-230' AND PRE PHENOS OF FELD. CALC & MAFICS IN FINE TO MOD GRAINED. RED STAINED GDMSS.	200-210 MOD to STRONG PROP ALT. WEAK ARGILLIC ALT. MOD CALCAREOUS ALT OF GDMSS.		200-300 MOD PREV FeOx (?). SYN?								
230-300 AND TUFF LESS PORPHYRITIC >>. TUFFACEOUS. INDICATED RARE FELD & MAFIC PHENOS	230-300 WEAK PROP. ALT.	230-300 CALCITE VEINS &/or FRX COATING. To 1cm WIDE 5% OF SPL. 290-295. DARK BROWN CALCITE RICH FRGS. VEIN(?) LIMESTONE BAND? APPROX 30% OF SPL.	290-295. CALCITE ZONE APPEARS TO CONTAIN MnOx.				T.D. @ 300'				

SAMPLE RECORD

SAMPLER:

PROJECT BVO

DRILL HOLE 87 - 8

PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	opt. ASSAYS Au	Ag			REMARKS Bronco
9-6-87				30	8046AQ	0	5	5'	.004	.04			-60° N15W.
				0	47	5	10						5-20' Composite spl from Collar
				0	48	10	15		.027	.11			
				0	49	15	20						
				30	8050AQ	20	25		.027	.10	.032	.11	
				60	51	25	30		.035	.12			
				100	52	30	35		.021	.11			
				100	53	35	40		.017	.05			
				100	54	40	45		.012	.11			
				100	55	45	50		.005	.13			
				90	56	50	55		.008	.01			
				100	57	55	60		.005	.12			
				100	58	60	65		.007	.08			
				100	59	65	70		.006	.12			
				100	8060AQ	70	75		.005	.30			
				100	61	75	80		.008	.32			
				100	62	80	85		.007	.30			
				100	63	85	90		.040	.48			
				100	64	90	95		.032	.49			
				100	65	95	100		.022	.34			
				80	66	100	105		.010	.15			
				80	67	105	110		.011	.18			
				90	68	110	115		.008	.13			
				100	69	115	120		.008	.03			
				100	8070AQ	120	125		.004	.05	.004	.05	
				50	71	125	130		.006	.04			
9-7-87				60	72	130	135		.007	.08			
				60	73	135	140		.010	.10			
				50	74	140	145		.008	.01			
				20	75	145	150		.008	.03			
				90	76	150	155		.007	-.01			
				100	77	155	160		.007	.14			
				100	78	160	165		.002	.06			
				60	79	165	170		.003	.01			
				60	8080AQ	170	175		.005	.05			
				100	81	175	180		.004	.05			
				100	82	180	185		.006	.07			
				60	83	185	190		.004	.08			
				80	84	190	195		.003	.07			
				80	85	195	200		.001	.05			
				100	86	200	205		.001	.05			
				100	87	205	210		.002	.04			
				100	88	210	215		.003	.03			
				100	89	215	220		.001	.08			
				100	8090AQ	220	225		.001	-.01	.001	.05	

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SCALE _____ LOGGED BY: _____ PROJECT _____ HOLE NO. BVO-87-8 PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-110' AND POR PHENDS OF FELD DK. BROWN FINE GRAINED MATRIX. 5-20 NO SPL.	0-110' SILICA FLOODED WEAK TO MOD PROP ALTERATION.	0-110' QUARTZ VEINS & QUARTZ STOCKWORK NOTED. VEINS REG LOCALLY SEAMS & MAKE UP TO 20% OF THE SAMPLE. LOCALLY CHALCEDONIC TEXTURES & UP TO 2MM WIDE.	0-110' FeOx (H) MOD. ON & ABS TO FRX. 25-110' MnOx ASSOC. WITH Q. VEINS. - MOD AMOUNTS & FRX CONTROLLED. 45-110' WEAK PERVASIVE FeOx (H) NOTED.											
	70-80' MOD ARGILLIC ALT MAKES UP APPROX 20% OF SAMPLE.													
110-225' AND TUFF FINE GRAINED, INDURATED RARE PHENDS OF FELD & MAFIC	110-195' WEAK TO MOD. PROPYLITIC ALT. WEAK CHLORITIC LOCALLY. 195-170' WEAK TO MOD SIL. STRONG PROP. ALT. 170- WEAKLY CALCAREOUS.	130-150' QTZ FRAG TO 5MM. ASS STOCKWORK & UP TO 30% OF SPL.-SEAMS	110-225' MINOR WEAK 20's OF FeOx (H) ASSOC W/ FRX ?											
	190-225' WEAK TO MOD ARG. ALT. PERVASIVE.	160-190' HAIRLINE Q.V. 1-2% OF SPL.	170'-185' WEAK FeOx(H) > PERVASIVE. MOD.											
							TD. @ 225'							

SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 87-9 PAGE OF Bronco

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	opt ASSAYS Au	Ag			REMARKS
9-8-87				20	8091AQ	0	5	5	.003	.05			-60° N20W (N19W).
				15	92	5	10		.004	.03			
				15	93	10	15		.009	.20			
				60	94	15	20		.013	.13			
				15	95	20	25		.005	.23			
				100	96	25	30		.013	.17			
				80	97	30	35		.008	.23			
				60	98	35	40		.010	.23			
					99	40	45		.011	.26			
				80	8100AQ	45	50		.008	.19			
				70	01	50	55		.007	.22			
				90	02	55	60		.010	.16			
				40	03	60	65		.020	.34			
				50	04	65	70		.023	.23			
				60	05	70	75		.025	.28			
				100	06	75	80		.028	.33			
				100	07	80	85		.024	.22			
				100	08	85	90		.019	.16			
				100	09	90	95		.035	.44			
				40	8110AQ	95	100		.020	.39	.021	.38	
				70	11	100	105		.022	.28			
				90	12	105	110		.010	.25			
				90	13	110	115		.012	.16			
				80	14	115	120		.006	.21			
				80	15	120	125		.005	.16			
				90	16	125	130		.005	.12			
				90	17	130	135		.004	.04			
				90	18	135	140		.001	.13			
				80	19	140	145		.002	.10			
				80	8120AQ	145	150		.002	.24			
				90	21	150	155		.003	-.01			
				100	22	155	160		.001	.14			
9-9-87				40	23	160	165		.001	.09			
				80	24	165	170		.003	.07			
				80	25	170	175		.004	.11			
				80	26	175	180		.007	.11			
				80	27	180	185		.008	.14			
				80	28	185	190		.007	.16			
				90	29	190	195		.005	.11			
				80	8130AQ	195	200		.004	.14	.005	.12	
				100	31	200	205		.007	.12			
				90	32	205	210		.009	.12			
				40	33	210	215		.011	-.01			
				60	34	215	220		.014	.03			
				40	35	220	225		.009	.01			
				40	36	225	230		.005	.01			
				40	37	230	235		.004	.04			
				50	38	235	240		.002	-.01			
				50	39	240	245		.008	-.01			
				40	8140AQ	245	250		.002	-.01			
				40	41	250	255		.003	.08			
				?	42	255	260		.002	.05			
				60	43	260	265		.006	-.01			
				60	44	265	270		.002	-.01			
				50	45	270	275		.007	.03			
				50	46	275	280		.018	.06			
				30	47	280	285		.019	.23			
				40	48	285	290		.032	.13			
				50	49	290	295		.009	.08			
				40	8150AQ	295	300		.024	.08	.031	.01	

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVO-87-9

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au	Ag.				SAMPLE NO.	REMARKS
0-40 AND TUFF FINE GRAINED. INDURATED. PHENOS - N FEX: OF FERROMAGS - MICA.	0-145' STRONG PROPYLITIC ALTERATION. WEAK CALCAREOUS ALT. NOTED. 15-145 STRONG PERV. SILICIFICATION. - QTZ FLOODING.	0-135' QUARTZ VEINS. HAIRLINE TO 2mm UP TO 15% OF SPL. STOCKWORK. QUARTZ APPEARS XTALLINE & IS LOCALLY COARSE GRAINED. 65-70 QTZ VEIN FRG 1cm WIDE. BANDED AT WALL CONTACT. COARSELY XTALLINE INTERIOR.	0-40 PERVASIVE FeOx (H) MOD-WEAK. 40-120 FeOx RESTRICTED TO MATRIX & ON & ADJ TO FEX. DOM. (H) W/ MINOR (3) MnOx - MINOR - ASSOC WITH QV. 120-110' FeOx (4) ON & ADJ TO FEX & LOCALLY PERVASIVE. MOD. WEAK (H) ALSO NOTED. 130-260' TR FeOx ON FEX & LOCAL BLEBS. DOM (H). + Sp PY (H) ON FEX.									
40-260' AND POR COARSE GRAINED PHENOS OF FELDSPAR & MAFICS IN MOTTLED RED & WHITE FG. MATRIX. 70-80' BRXX TEXT.														
	145-180' WEAK TO MOD SILICA WEAK ARGILLIC ALT. STRONG PROP.	135-170' NO QTZ VEINING NOTED.												
		170-175' QTZ VEINS. TO 5mm & MAKE UP APPROX 20% OF SPL.												
	180'-260' STRONG SILICA - PERV. STRONG PROP.													
260-280' AND TUFF FINE GRAIND. DK RED STAINED. LOCALLY INDURATED.	260-280' MOD-STRONG ARGILLIC ALT. UP 50% OF SPL. CALCAREOUS. STRONG PROP. ALT.	260-280' RARE QTZ - VEINS TO 1mm.												
280-300' AND POR COARSE GRAINED PORPHYRY	280-300 SILICA FLOODED STRONG PROP. ALT.	280-295' QTZ VEINS MAKE UP APPROX 50% OF SAMPLE.	280-290' MOD FeOx (5) DOM ON & ADJ TO FEX. LOCALLY PERV. 290-300' WEAK TR? FeOx (H) on FEX.				T.D. @ 300'							

SAMPLER:

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	opt ASSAYS Au	opt ASSAYS Ag			REMARKS BRONCO
				40	8151AQ	0	5	5	·104	·09			VERTICAL.
				20	52	5	10		·064	·01			
				30	53	10	15		·028	·08			
				40	54	15	20		·076	·06			
				70	55	20	25		·066	·15			
				60	56	25	30		·06	·12			
				60	57	30	35		·026	·07			
				60	58	35	40		·019	·18			
				80	59	40	45		·026	·15			
				80	8160AQ	45	50		·026	·16			

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SCALE
LOGGED BY:

PROJECT

HOLE NO. BVO-87-10

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-50 AND ACR. [illegible] LANDS OF FELDSPAR [illegible] PICS IN P.G. MATRIX. MATRIX IS PALE RUDDISH BROWN IN COLOR.	0-50 STRONG SILICA FLOODING MOD-STRONG PROP. ALT.	0-50 QTZ VEINS MAKE UP APPROX 10% OF SAMPLE. VEIN SIZE IS FROM HAIRLINE TO 5MM.	0-50 TR FeOx (H) ON FRX. 40-50 Iver (H) > PERVASIVE.				T.D. @ 50'							

SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 87-11 PAGE 1 OF 2

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	opt. ASSAYS Au	Ag			REMARKS Vertical
9-10-87				40	8161AQ	0	5	5					VERTICAL.
				40	62	5	10						
				15	63	10	15		-.001	.18			
				20	64	15	20						
				15	65	20	25						
				40	66	25	30						
				30	67	30	35						
				20	68	35	40		-.001	-.01			
				20	69	40	45						
				80	8170AQ	45	50						
				80	71	50	55						
				95	72	55	60						
				95	73	60	65		-.001	-.01			
				40	74	65	70						
				90	75	70	75						
				80	76	75	80						
				90	77	80	85						
				50	78	85	90		-.001	-.01	-.001	-.01	
				50	79	90	95						
				80	8180AQ	95	100						
				90	81	100	105						
				50	82	105	110						
				50	83	110	115		-.001	-.01			
				40	84	115	120						
				60	85	120	125						
				50	86	125	130						
				40	87	130	135						
				90	88	135	140		-.001	-.01			
				40	89	140	145						
				30	8190AQ	145	150						
				100	91	150	155						
				100	92	155	160						
				100	93	160	165		-.001	-.01			
				100	94	165	170						
				100	95	170	175						
				100	96	175	180		No	SAMPLE			
				100	97	180	185		No	SAMPLE			
				100	98	185	190		-.001	.06	-.001	-.01	
				100	99	190	195		.001	-.01			
				100	8200AQ	195	200		-.001	.08			
				100	01	200	205		-.001	.01			
				100	02	205	210		-.001	.02			
				100	03	210	215		-.001	-.01			
				100	04	215	220		-.001	.11			
				100	05	220	225		-.001	-.01			
				100	06	225	230		-.001	.02			
				100	07	230	235		-.001	.07			
				100	08	235	240		-.001	.05			
				100	09	240	245		-.001	.03			
9-11-87				50	8210AQ	245	250		-.001	.03			
				90	11	250	255		-.001	.05			
				100	12	255	260		-.001	.10			
				100	13	260	265		-.001	-.01			
				100	14	265	270		-.001	.10			
				50	15	270	275		-.001	.03			
				80	16	275	280		-.001	.01	-.001	.14	
				50	17	280	285		-.001	.03			
				60	18	285	290		-.001	.04			
				80	19	290	295		-.001	.15			
				100	8220AQ	295	300		-.001	[illegible]			

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SCALE _____
LOGGED BY: M.A.J.

PROJECT B.V.O.

HOLE NO. BVO-87-11

PAGE 1 OF 1

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-2 CALCRETE														
2-200 AND FELSIC TUFF FLOW-BANDED FELSIC RICH TUFF. W/ PERVASIVE RED STAINING. INDURATED. ZONES OF POR. DIKES. (60-65') POR XTALS OF FERROMAG IN F.G. RED COLORED MATRIX.	WEAK TO MODERATE ARGILLIC ALT OF FELDSPAR LOCALLY. 55-200 GRADITIONAL INCR IN ARGILLIC ALT. MOD TO LOCALLY STRONG, WITH GREEN CAST TO ALT FRGS.		WEAK FeOx (3) ON & ADJ TO FRX. WEAK SYN.(?) PERVASIVE FeOx (4).				175-185 NO SAMPLE.							
200-295' AND (PR). F.G. ANDESITE W/ LOCAL PHENOS OF FELD, & FERROMAG (BIOT?). GRNS IS PERVASIVELY DK RED IN COLOR. ROCK IS LOCALLY VUGGY. & CONTAINS ZO'S OF LIESEGANG BANDING.	200 DECR TO NONE ARGILLIC ALT. AND IS REL FRESH, (WEAK PROPYLITIC ALT) & INDURATED.	285-290. GYPSUM VEIN. (10% @ SPL).	200- PERV. SYN.(?) FeOx (4). WEAK TO MOD.											
295-310' DAC PR(?) PHENOS OF FELDSPAR QTZ & MAFICS IN SILIC F.G. LIGHT COLORED GROUNDMASS 310-330' TUFF PR F.G GRNSS W/ PHENOS OF BIOT & FELDSPAR. RAG QTZ.	295-300 WEAK PROP ALT. INTRODUCED SILICIFICATION TO GROUNDMASS.		295-300 WEAK TO MOD FeOx ON & ADJ TO FRX PERVASIVE, WEAK FeOx (3+<11).											
330-375 "VEIN" LIGHT GRN. SUGRY TO CALCEDONIC QTZ FRGS. & RARE DAC POR FRGS (BRXX?).	330'-375 INTENSE SIL.	300-375 QTZ VEIN UP TO 80% OF SPL. NO $CaCO_3$ NOTED!	300-375 WEAK FeOx (11+3) ON FRX. RARELY PERVASIVE.											
375-420' AND POR(?) PHENOS OF FERROMAG FELDSPAR & QTZ FRGS. MATRIX. PINKISH COLOR TO RED.	375- MOD INTERMIXED SIL TO F.G. GROUNDMASS DOM. WEAK PERV. PROP ALT	375-400' QTZ VEINS UP TO 20% OF SPL. 400-420' HAIRLINE QV. NOTED.	375-420. WEAK TO MOD SYN.(?) FeOx (4).				TD 420'							

SAMPLE RECORD

SAMPLER:

PROJECT BVO DRILL HOLE 87-11 PAGE 2 OF 2

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS opt Au	ASSAYS opt Ag			REMARKS
				80	8221AQ	300	305	5	.002	.05			
				80	22	305	310		.004	.27			
				70	23	310	315		.003	.03			
				80	24	315	320		.003	.34			
				50	25	320	325		.005	.13			
				100	26	325	330		.018	.13			
				80	27	330	335		.420	2.59			
				80	28	335	340		.442	4.36			
				25	29	340	345		.056	5.34			
				25	8230AQ	345	350		.203	5.43			
				50	31	350	355		.322	4.68			
				80	32	355	360		.179	2.92			
				80	33	360	365		.180	2.53			
				80	34	365	370		.138	2.07			
				90	35	370	375		.165	1.58			
				100	36	375	380		.029	.49	.030	.49	
				100	37	380	385		.017	.26			
				20	38	385	390		.010	.20			
9-13-87				95	39	390	395		.004	.07			
				100	8240AQ	395	400		.004	.03			
				100	41	400	405						
				100	42	405	410						
				100	43	410	415		.007	-.01			
				100	8244AQ	415	420						

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SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 87-12 PAGE 1 OF 2

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS VERDSTONE EXT
9-13-87				100	8245AQ	0	5	5					VERTICAL
				100	46	5	10						
				100	47	10	15		-.001	-.01			
				100	48	15	20						
				100	49	20	25						
				100	8250AQ	25	30						
				100	51	30	35						
				100	52	35	40		-.001	-.01			
				100	53	40	45						
				100	54	45	50						
				30	55	50	55						
				40	56	55	60						
				40	57	60	65		-.001	-.01			
				100	58	65	70						
				70	59	70	75						
				80	8260AQ	75	80						
				100	61	80	85						
				100	62	85	90		-.001	.04	-.001	-.01	
				100	63	90	95						
				100	64	95	100						
				100	65	100	105						
				100	66	105	110						
				70	67	110	115		-.001	-.01			
				80	68	115	120						
				80	69	120	125						
				80	8270AQ	125	130						
				80	71	130	135						
				80	72	135	140		-.001	.05			
				90	73	140	145						
				80	74	145	150						
				80	75	150	155						
				80	76	155	160						
				90	77	160	165		-.001	-.01			
				80	78	165	170						
				90	79	170	175						
				90	8280AQ	175	180						
				90	81	180	185						
				50	82	185	190		-.001	-.01			
				90	83	190	195						
				70	84	195	200						
				80	85	200	205						
				100	86	205	210						
				100	87	210	215		-.001	-.01			
				100	88	215	220						
				100	89	220	225						
				100	8290AQ	225	230						
				100	91	230	235						
				100	92	235	240		-.001	-.01	-.001	.08	
				100	93	240	245						
				20	94	245	250						
				80	95	250	255						
				80	96	255	260						
				90	97	260	265		-.001	-.01			
				30	98	265	270						
				30	99	270	275						
				80	8300AQ	275	280						
				80	01	280	285						
				30	02	285	290		.001	.04			
				80	03	290	295						
				90	04	295	300						

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SCALE _____
LOGGED BY: _____

PROJECT B.V.Q.

HOLE NO. BVO-87-12

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-3' CALCRETE														
3-205 FELSIC TUFF DOM F.G. FELSIC ROCK W/ LOCAL PHENOS OF FRESH MAFICS & FELDSPAR. SALMON PINK IN COLOR. INDURATED. VUGS & LIESEGANG BANDING NOTED.	3.-35. WEAKLY CALCARED -US LOCALLY 35-95' MOD ARGILLIC ALT @ 40-60% @ SAMPLE. 95-100 STRONG ARGILLIC ALT. 100-205 WEAK TO MOD ARG ALT @ 40-60% @ FRGS.	3' RARE GYPSUM(?) VEINS TO 10% @ SPL. 35-40 CALCITE FRGS TO 10% @ SPL. 80-85. QTZ VEIN TO 5% @ SAMPLE.	3-95 PERVASIVE SYN (?) FeOx (H). WEAK. 100-205' WEAK FeOx (H) ON FRX LOCALLY.										
205-320 AND PORP (?) PHENOS OF MAFICS, FELDSPAR & RARE QTZ IN INDURATED GDMSS, PERVASIVE DK RED COLOR.	205-285 WEAK INTRODUCED SILICA-PERV THROUGHOUT GDMSS. MOD ARGILLIC ALT @ APPROX 40% @ SPL. MOD TO STRONG PROP. ALT. 285-320 ARGILLIC ALT INCR TO STRONG & EFFECTING APPROX 80% @ SPL.		205'-320' WEAK FeOx (3) ON FRX. WEAK MnOx (?) ALSO NOTED - RARE. WEAK-MOD FeOx (H) SYN(?), PERV.										
320-360' VEIN DOM SUGARY LOCALLY CALCEDONIC & VUGGY Q.V.		320-360' QUARTZ VEIN = APPROX 80% @ SPL.	320-360' MOD FeOx (H) ON FRX. WEAK, RARE FeOx (4) NOTED.										
360-500' AND TUFF DOM F.G. W/ LOCAL MAFIC PHENOS. DARK TO MED GDMSS. 430-500' INCR FELDSPAR PHENOS. IN F.G. MATRIX.	360'-500' MOD PROP ALT, INDURATED 360-445.	425-435' HAIRLINE SILICA VEINLETS.	360-445 PERV. FeOx(H) SYN? - MOD. & VARIABLE COLOR. 445-500' PERV FeOx (H) OBSURING UNIFORM COLOR TO FRGS - DK RED.										

SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 87-12 PAGE 2 OF 2

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS opt. Au	ASSAYS Ag			REMARKS
				90	8305AQ	300	305	5	.001	.04	.002	.05	
				100	06	305	310		.009	.15			
				100	07	310	315		.008	.04			
				100	08	315	320		.009	-.01			
				100	09	320	325		.027	.58			
				30	8310AQ	325	330		.030	.10			
				50	11	330	335		.040	.05			
				60	12	335	340		.025	.35			
				60	13	340	345		.016	.35			
				5	14	345	350		.010	.04			
				10	15	350	355		.006	.07			
				100	16	355	360		.004	.07			
				100	17	360	365						
				50	18	365	370		.005	.05			
				60	19	370	375		.003	.05			
				70	8320AQ	375	380		.002	.04			
				90	21	380	385		.003	-.01			
				50	22	385	390		.005	.05			
				70	23	390	395		.003	.02			
				70	24	395	400		.002	.01			
				80	25	400	405		.008	-.01	.005	-.01	
				50	26	405	410		.002	-.01			
				50	27	410	415		.001	.12			
				80	28	415	420		.005	-.01			
				80	29	420	425		.005	-.01			
				60	8330AQ	425	430		.013	-.01			
				70	31	430	435		.009	-.01			
				80	32	435	440		.003	-.01			
				80	33	440	445		.002	-.01			
				90	34	445	450		.001	-.01			
				100	35	450	455		.001	.03	.001	-.01	
				100	36	455	460		.002	.01			
				80	37	460	465		.002	.02			
				80	38	465	470		.002	.01			
				60	39	470	475		-.001	.04			
				80	8340AQ	475	480		.003	.03			
				100	41	480	485						
				100	42	485	490						
				100	43	490	495						
				100	8344AQ	495	500						

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SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 87-13 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS opt. Au	ASSAYS Ag			REMARKS VERDSTONE
9-14-87				100	8345AQ	0	5	5					TWIN TO V-31 VERTICAL
				80	46	5	10						
				80	47	10	15		-.001	-.01			
				70	48	15	20						
				60	49	20	25						
				50	8350AQ	25	30						
				60	51	30	35						
				20	52	35	40		-.001	-.01			
				20	53	40	45						
				10	54	45	50						
				15	55	50	55						
				60	56	55	60						
				100	57	60	65		-.001	.01			
9-15-87				40	58	65	70						
				70	59	70	75						
				90	8360AQ	75	80						
				80	61	80	85						
				70	62	85	90		-.001	.04	-.001	.03	
				80	63	90	95						
				70	64	95	100						
				80	65	100	105						
				70	66	105	110						
				80	67	110	115		-.001	-.01			
				70	68	115	120						
				80	69	120	125						
				80	8370AQ	125	130						
				80	71	130	135						
				90	72	135	140		-.001	-.01			
				80	73	140	145						
				80	74	145	150						
				80	75	150	155		-.001	.06	-.001	.05	
				70	76	155	160		.001	.18			
				70	77	160	165		-.001	.20			
				70	78	165	170		-.001	.04			
				80	79	170	175		-.001	.17			V-31 R.C.
				70	8380AQ	175	180		-.001	.07			.140 1.94
				70	81	180	185		.309	1.99			.042 .68
				80	82	185	190		.039	1.29			.045 .40
				80	83	190	195		.031	.78			.015 .36
				80	84	195	200		.024	.47			.085 1.52
				70	85	200	205		.028	.41			.064 .82
				80	86	205	210		.023	.53			.074 .72
				80	87	210	215		.021	.22			.017 .12
				80	88	215	220		.040	.47			.007 -.01
				80	89	220	225		.032	.34			.004 -.01
				80	8390AQ	225	230		.018	.05			.005 -.01
				80	91	230	235		.011	-.01			.005 -.01
				70	92	235	240		.012	-.01			.008 -.01
				80	93	240	245		.007	-.01			.010 -.01
				80	94	245	250		.003	-.01			.019 -.01
				70	95	250	255		.003	-.01	.003	.06	
				80	96	255	260		.005	-.01			
				100	8397AQ	260	265		-.001	-.01			

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SCALE _____
LOGGED BY: _____

PROJECT B.V.O.

HOLE NO. BVO-87-13

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-2 CALCRETE/OVB.											
2-15' AND TUFF. Locally Brxx(?) F.G. Mod red colored AND TUFF W/ RARE FELDSPAR PHENOS. FRIABLE APPEARANCE.	2-15 Mod. Prop Alt. Weak Prop - Argil		2-15. Weak Perv FeOx (H). Syn? MOTTLED APPEARANCE TO OX.								
15-185' AND Por(?) PHENOS OF QTz & FELDSPAR IN F.G. INTERGRATED GDMSS.	15-35 Weak Argillic Alt OF APPROX 10% of SPL										
	35-185' Strong Argillic Alt OF APPROX 80% of SPL.	135-185' QTz Frags to Sum & APPROX 10% of SPL.									
185'-245' "VEIN" SUGARY TO CALCEDON QTz FRGS. Locally up TO 50% (BY VL) AND Por FRGS QTz FRGS Locally GRY in Color.	185- AND Por FRGS ARE STRONGLY SHEARED.	185- QUARTZ VEIN = APPROX 80% of SPL.	185'-245' Weak FeOx (H) ON FRX. RARE MnOx on FRX.								
245-270 AND Por PHENOS & FELDSPAR? MAFICS IN F.G. INTERGRAD MATRIX. SALMON PINK COLOR.	245-270 Weak to Mod Prop Alt.		245-270 Perv - Syn(?) FeOx (H) to AND FRGS.				T.D @ 270'				

SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 85-14 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS VERDSTONE - BRC
				20	8398AQ	0	5	5					VERTICAL
				20	99	5	10						
				100	8400AQ	10	15		.001	-.01			
				100	01	15	20						
				100	02	20	25						
				50	03	25	30						
				60	04	30	35						
				40	05	35	40		.003	.04			
				40	06	40	45						
				100	07	45	50						
				100	08	50	55				.009	.15	
				100	09	55	60				.006	.11	
				100	8410AQ	60	65		.008	.03	.010	.14	
				100	11	65	70				.005	.22	
				100	12	70	75				.008	.03	
				50	13	75	80						
				50	14	80	85						
				60	15	85	90		.001	-.01	.001	-.01	
				70	16	90	95						
				80	17	95	100						
				80	18	100	105						
				100	19	105	110						
				100	8420AQ	110	115		-.001	-.01			
				100	21	115	120						
				100	22	120	125						
				100	23	125	130						
				100	24	130	135						
				100	25	135	140		-.001	-.01			
				100	8426AQ	140	145						

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVO-87-14

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-10 OVB Dom Calcrete w/ minor basalt & And. frgs.											
10-95' And Tuff Med. Dk Brown. Fine Grained w/ round masses. Indurated. 50-55 20% Porphyry frgs.	10-95' Mod Strong Prop. Alt - Perv. Weak Argillic Alt.		40-80' Weak FeOx (N) Restricted to Frx. 70-80 Hg Colorado to Feldspars.								
95-145' Granite Coarsely xtalline.	95-145' Mod - Weak Prop. Alt.		95-125. Weak Perv. FeOx (1)				T.D. @ 145'				

SAMPLE RECORD

SAMPLER:

PRO[illegible] B.V.O DRILL HOL[illegible] 87-15 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	ASSAYS	ASSAYS	REMARKS VERDSTONE
9-15-87				10	8427AQ	0	5		.002	.18			TWIN 85-2 VERTICA'
				15	28	5	10		<.001	.13			
				20		10	15		NO	SAMPLE			
				20	29	15	20		<.001	.24			
9-16-87				20	8430AQ	20	25		<.001	.23			
				30	31	25	30		<.001	.55			
				80	32	30	35		.228	3.24			
				80	33	35	40		.422	8.14	.742	7.6	
				80	34	40	45		.069	3.53			
				50	35	45	50		.010	1.60			
				80	36	50	55		.005	.62			
				90	37	55	60		.002	.19			
				90	8438AQ	60	65		.001	.13			

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVO-87-15.

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-30' FELSIC TUFF WHITE POWDER.	0-30' STRONG TO INTENSE ARGILLIC ALT.						NO SAMPLE 10-15'				
25-30 RED POWDER!			25-30' PERVASIVE FeOx(H) TO SPL MOD-STRONG.								
30-50 VEIN. GREEN COLORED QTZ VEIN FELS. IN SILC TUFFACEOUS. MATL.	30-50 STRONG Sil^n		30-50. WEAK FeOx (3-5) ON FRX. MOD (H) ON FRX.								
50-65 AND PDR(?) PHENOS OF FELD IN BL MATRIX	50-65. MOD. Sil^n		50-65. MOD (H) & WEAK (3-5) ON FRX ONLY.				T.D. @ 65'				

SAMPLE RECORD

SAMPLER:

PROJ B.V.O. DRILL HOLE 87-16 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS OAKLAND.
				10	8439AQ	0	5	5					-60° S 30W.
				20	8440AQ	5	10						
				20	41	10	15		<.001	<.01			
				45	42	15	20						
				30	43	20	25						
				40	44	25	30						
				100	45	30	35		<.001	<.01			
				100	46	35	40						
				70	47	40	45						
				70	48	45	50						
				70	49	50	55						
				70	8450AQ	55	60		<.001	<.01	<.001	.06	
				70	51	60	65						
				70	52	65	70						
				70	53	70	75						
				80	54	75	80						
				70	55	80	85						
				90	56	85	90		.001	.09			
				90	57	90	95						
				60	58	95	100		.001	.12			
				70	59	100	105		.002	.09			
				70	8460AQ	105	110		<.001	.13			
				70	61	110	115		<.001	.03			
				70	62	115	120		<.001	.10	<.001	.05	
				50	63	120	125		<.001	.10			
				90	64	125	130		<.001	<.01			
				90	65	130	135		<.001	<.01			
				90	66	135	140		<.001	.28			
				70	67	140	145						
				70	68	145	150						
				80	69	150	155		.001	.04			
				90	8470AQ	155	160						
				90	71	160	165						
				90	72	165	170		<.001	<.01			
				80	73	170	175						
				70	74	175	180						
				90	75	180	185		.001	.02			
				80	76	185	190						
				90	77	190	195						
				90	78	195	200		<.001	<.01			
				80	79	200	205						
				80	8480AQ	205	210		.001	.07			
				80	81	210	215						
				80	82	215	220		.001	.01	<.001	.05	
				100	83	220	225						
				100	84	225	230						
				100	85	230	235		.002	.11			
				100	8486AQ	235	240		<.001	.04			

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. 810-87-16.

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-10 CALCRETE											
10-100 LAHARIC BRXX? FRGS OF AND TUFF, AND POR. RHYOLITE & CALCITE IN FINE TO MED. GRAINED, RED COLORED SILTY MATRIX.	0-100 CALCAREOUS ALT TO FELDSPARS. LOCAL CLAY BAND.	10-100 RARE Q. VLNS TO 3MM.	10-30' WEAK FeOx (H) DOM ON & ADJ to FRX. 30-100> MOD PERV FeOx (H) - SYN?								
100-130' AND POR PHENOS OF EUHED FELD IN RED COLORED F.G. MATRIX.	100-130' WEAK ARGILLIC ALT OF FELDSPARS.		100- MATRIX = POOR FeOx (H) - MOD, SYN?								
130-140' TUFF(?) FINE GRAINED. RED COLORED. LIEGRIN W/ BANDING NOTED.			130-140' SYN FeOx (H) PERV. MOD.								
140-240 AND POR PHENOS OF FELD IN F.G. MATRIX.			140- MOD SYN FeOx (H) STAINING OF MATRIX				T.D. @ 240'				

SAMPLE RECORD

SAMPLER:

PROJECT: B.V.O. DRILL HOLE: 87-17 PAGE 1 OF 2

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS BRONCO
				15	8487AQ	0	5	5	.007	<.01			VERTICAL.
				50	88	5	10		.014	<.01			
				30	89	10	15		.018	.02			
				30	8490AQ	15	20		.010	.10			
				50	91	20	25		.007	<.01			
					92	25	30		.010	<.01			
					93	30	35		.041	2.01			
					94	35	40		.043	2.54			
				70	95	40	45		.141	1.25			
				60	96	45	50		.045	.52			
				80	97	50	55		.011	.25			
				80	98	55	60		.006	.18			
				70	99	60	65		.007	.53			
				80	8500AQ	65	70		.010	.73			
				70	01	70	75		.013	.15			
				80	02	75	80		.014	.35			
				80	03	80	85		.018	.44			
				80	04	85	90		.002	.61			
				80	05	90	95		.019	.38			
				90	06	95	100		.015	.21	.011	.21	
				50	07	100	105		.010	.13			
				70	08	105	110		.007	.12			
				80	09	110	115		.004	.22			
				80	8510AQ	115	120		.012	.30			
				60	11	120	125		.007	.23			
				60	12	125	130		.010	.78			
				20	13	130	135		.005	.22			
				30	14	135	140		.007	.27			
				60	15	140	145		.008	.24			
				60	16	145	150		.002	.21			
				80	17	150	155		.004	.14			
				80	18	155	160		.004	.16			
				60	19	160	165		.006	.29			
				87	8520AQ	165	170		.009	.19			
				90	21	170	175		.007	.21			
				60	22	175	180		.002	.11			
				70	23	180	185		.005	.04			
				20	24	185	190		.003	.12			
				60	25	190	195		.013	.03			
				50	26	195	200		.021	.29			
				15	27	200	205						
				60	28	205	210		.026	.05			
				80	29	210	215		.006	.28			
				80	8530AQ	215	220		.006	.24			
				80	31	220	225		.005	<.01			
				80	32	225	230		.003	.06			
				80	33	230	235		.001	.06			
				90	34	235	240		.001	.20			
				70	35	240	245		.005	.32			
				80	36	245	250		.007	<.01	.006	.18	
				80	37	250	255		.006	.08			
				90	38	255	260		.009	.28			
				70	39	260	265		.038	<.01			
				80	8540AQ	265	270		.005	<.01			
				80	41	270	275		.004	<.01			
				80	42	275	280		.011	<.01			
				80	43	280	285		.007	<.01			
				70	44	285	290		.002	<.01			
				80	45	290	295		.002	<.01			

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SCALE _____ LOGGED BY: _____ PROJECT _____ HOLE NO. BVO-87-17 PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-315 AND PDR EUHEDRAL PHENOS OF FELD & MAFICS (BIOT) IN F.G. FELSIC GDMSS. LOCALLY BRXX ?	0-30 MOD PROP. ALT. LOCALLY WEAKLY CALCAREOUS.	0-30 Q. VEINING TO 10% OF SPL.	0-20 PERV. FeOx (H) - MOD.											
			20.-IN FeOx (H) DECR TO WEAK & DOM ON & ADJ. TO FRX. RARE (S) on FRX.											
	30-95' STRONG PROP ALT.	30-45 Q. VEINING INCR TO 40% OF SAMPLE. DOM. SUGARY. LOCALLY XTALLINE.												
		60-65' FRG OF DKGY CALCITE.												
	95-170 FELDS ARE LOCALLY STRONGLY SILIC.	95-145' Q. VEIN FRGS TO 40% NOTED. - SUGARY DRUSY - XTALLINE.	125-130 PERV. FeOx (H) 130-240' 7 FeOx (H) DOM ON & ADJ to FRX. LOC. PERV.											
	170-220' WEAK SILIC WEAK ARG. MOD PROP.													
	220-225' STRONG SILIC MOD PROP.													
	225-240 MOD ARGILLIC - 30% SPL. MOD PROP													
	240-245' STRONG ARGILLIC ALT 5) ± 70% 9 SPL. MOD PROP ALT.		240-245' MOD-STRONG PERV. FeOx (H)											
	245-315 MOD ARGILLIC MOD PROP.	245-285' Q. VEINING TO 10% OF SPL - SUGARY.	245'-280 FeOx (H) DOM ON & ADJ to FRX. MINOR DISSM.											
280-315' Rock Lx. ALLY BRXX.		280-290 Q. VEINING TO 80% OF SPL - SUGARY. 290-315' Q. VEINING TO 20% DOM LAM - BANDING.	280-315' FeOx (3) on FRX only. > 245 >> DISSM.											
315-400' AND PDR (?) PEND OF MAFICS IN F.G. FELSIC PDR. MATRIX COLOR VARIES FROM GREEN to OLIVE	315' - 400' WEAK PROP ALT. WEAK ARG. ALT. ARG ALT INCR TO STRONG LOCALLY.		335-400' DISSM. ASSOC. FeOx (4)-MOD. LOCALLY (H) PERV OX.											
400-425 GRANITE COARSE GRAINED			400-425' WEAK FeOx (1-2) on FRX & XTAL BOUNDARIES				TD = 400'							

SAMPLE RECORD PRO[illegible] B.V.O. DRILL HO[illegible] 87-17 PAGE 2 OF 2

SAMPLER:

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
				70	8547AQ	300	305	5	.044	.05			
				20	48	305	310		.047	<.01			
				80	49	310	315		.020	<.01			
				80	8550AQ	315	320		.008	<.01			
				80	51	320	325		.009	.19			
				70	52	325	330		.007	<.01			
				80	53	330	335		.009	.36			
				80	54	335	340		.017	.32			
				60	55	340	345		.117	<.01			
				60	56	345	350		.057	<.01	.053	.21	
				70	57	350	355		.031	<.01			
				80	58	355	360		.075	.43			
				80	59	360	365		.011	<.01			
				80	8560AQ	365	370		.003	<.01			
				80	61	370	375		.001	<.01			
				80	62	375	380		.001	<.01			
				70	63	380	385		<.001	.03			
				100	64	385	390		.001	.15			
				100	65	390	395		<.001	.11			
				100	66	395	400		<.001	.10			
				100	67	400	405		<.001	<.01			
				100	68	405	410		<.001	.06			
				100	69	410	415		<.001	<.01			
				100	8570AQ	415	420		<.001	<.01			
				100	8571AQ	420	425		.001	<.01			

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SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE 87-18 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS Bronco.
9-18-87				20	8572AQ	0	5	5	.010	.09			-60 N20W. (N18W).
				20	73	5	10		.008	.14			
				30	74	10	15		.116	.05			
				40	75	15	20		.079	.33			
				40	76	20	25		.068	.51	.065	.32	
				70	77	25	30		.082	.88			
				70	78	30	35		.104	.36			
				80	79	35	40		.056	.61			
				70	8580AQ	40	45		.055	.12			
				60	81	45	50		.094	<.01			
				50	82	50	55		.095	.39			
				80	83	55	60		.060	.43			
				80	84	60	65		.046	.33			
				80	85	65	70		.062	.26			
				80	86	70	75		.034	.31			
				80	87	75	80		.032	.26			
				50	88	80	85		.036	.30			
				80	89	85	90		.020	.25			
				90	8590AQ	90	95		.022	.17			
				60	91	95	100		.014	.11			
9-19-87				60	92	100	105		.015	.14			
				70	93	105	110		.015	.10			
				80	94	110	115		.013	<.01			
				70	95	115	120		.014	.13			
				50	96	120	125		.010	.08	.012	.19	
				60	97	125	130		.010	.09			
				80	98	130	135		.009	.04			
				80	99	135	140		.010	.02			
				80	8600AQ	140	145		.019	.16			
				70	01	145	150		.010	.15			
				70	02	150	155		.008	.13			
				50	03	155	160		.007	.09			
				30	04	160	165		.012	.08			
				60	05	165	170		.009	.14			
				50	06	170	175		.004	.15			
				40	07	175	180		.008	<.01			
				70	08	180	185		.008	.04			
				70	09	185	190		.003	.09			
				70	8610AQ	190	195		.003	<.01			
				80	11	195	200		.003	.06			
				50	12	200	205		.011	.15			
				50	13	205	210		.004	.04			
				40	14	210	215		.005	.05			
				50	15	215	220		.007	.09			
				100	16	220	225		.013	.24	.012	.02	
				40	17	225	230		.011	.17			
				40	18	230	235		.007	.16			
				50	19	235	240		.004	.17			
				50	8620AQ	240	245		.004	.45			
				60	21	245	250		.003	.21			
				70	22	250	255		.003	.33			
				80	8623AQ	255	260		.005	.15			

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVO-87-18

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
AND PCR 10's OF FELDSPAR APPS IN F.G. RED STAINED MATRIX. 10- ROCK APPEARS TO BE BRECCIATED LOCALLY.	0-185 MOD-STRONG PROPYLITIC ALT. BECOMING > MOD W/ DEPTH. 185-190' CLAY ZONE. APPROX 50% OF SAMPLE SHOWS ARGILLIC ALT. 190-245' MOD. PROP ALT. V. WEAK ARG. ALT TO FELD. 245-260' MOD-STRONG ARGILLIC ALT APPROX 70% OF SPL. DECR TO 40% @ 250' MOD. LY CARBONATEDS.	0- MINOR HAIRLINE CALCITE VEINS - OR FRX COATINGS. 10-150' QTZ VEINS - STOCKWORK. HAIRLINE TO 1/4"! BANDED CRYPTO XTALLINE TO SUGARY. VEINS = 30-40% OF SPL. 35-40' Q VEIN DECR TO 10-20% OF SPL. 100-150' Q VEIN DECR TO 5% OF SPL. 160-165' Q VEIN FRAG NOTED. APPROX 5% OF SPL 145-205 Q VEINING, TO 5% OF SPL. 250-255' CuOx NOTED?	0-140' SALT & PEPPER OF FeOx (H) ON FRX SURFACES. 140-215' POSITIVE FeOx(H) MOD. STR. 215-260' DECR PREV. FeOx(H) TO TR DOM S&P ON FRX. + S&P OX(4-5)% ON FRX ALSO				185-190 FAULT ZO?						
							TD @ 260'							

SAMPLE RECORD

SAMPLER:

PRO[illegible] B.V.O. DRILL HOL[illegible] 87-19 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS OAKLAND
9-20-87				15	8624AQ	0	5	5	<.001	.17			-60° S30W.
				20	25	5	10						
				20	26	10	15						
				30	27	15	20						
				40	28	20	25						
				50	29	25	30		<.001	.07			
				60	8630AQ	30	35						
				20	31	35	40						
				20	32	40	45						
				20	33	45	50						
				60	34	50	55						
				70	35	55	60						
				50	36	60	65		.001	.07			
				70	37	65	70						
				80	38	70	75						
				80	39	75	80		.002	<.01			
				70	8640AQ	80	85		.004	.14			
				70	41	85	90		<.001	.06			
				70	42	90	95		<.001	.11			
				70	43	95	100		<.001	<.01	.005	<.01	
				70	44	100	105		.002	.08			
				70	45	105	110		<.001	.02			
				60	46	110	115		<.001	.03			
				70	47	115	120						
				70	48	120	125						
				70	49	125	130						
				60	8650AQ	130	135						
				50	51	135	140		.001	.05			
				20	52	140	145						
				20	53	145	150						
				50	54	150	155						
				50	55	155	160						
				20	56	160	165						
				15	57	165	170						
				40	58	170	175		<.001	<.01			
				40	59	175	180						
				25	8660AQ	180	185						
				40	61	185	190						
				60	62	190	195						
				60	63	195	200						
				40	64	200	205						
				50	65	205	210						
				50	66	210	215		.001	.01	<.001	.05	
				50	67	215	220						
				60	68	220	225						
				60	69	225	230						
				60	8670AQ	230	235						
				60	71	235	240						
				100	72	240	245		<.001	.04			
				100	8673AQ	245	250						

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SCALE
LOGGED BY:

PROJECT

HOLE NO. BVO-87-19

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-10' CALCRETE														
10-105' LAHARIC BRXX LOCALLY BRXX FRGS OF AND PDR, AND TUFF, RHYOLITE. IN F.G. MATRIX. RARE CALCITE FRGS NO	90-95. STRONG ARG. ALT OF APPROX 40% OF SAMPLE.		20- MOD FeOx(H) PERV. SYN?											
105-110 TUFF? F.G. RED COLORED	105-110. ARGILLIC ALT - STRONG													
110-250' AND PDR EUHED FELDSPAR PHENOS IN F.G. GDMSS LOCALLY BRX.	110- WEAK CALCARO ALT OF RARE FELD XTALS.						T.D. @ 250'							

SAMPLE RECORD

SAMPLER:

PROJ B.V.O. DRILL HOL 87-20 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	ASSAYS	ASSAYS	REMARKS OAKLAND
9-20-87				15	8674AQ	0	5	5					VERTICAL.
				70	75	5	10						
				50	76	10	15						
				70	77	15	20		·002	·04			
				70	78	20	25						
				70	79	25	30						
				90	8680AQ	30	35						
				90	81	35	40						
				90	82	40	45						
				90	83	45	50						
				90	84	50	55						
				90	85	55	60						
				90	86	60	65		·002	·03			
				90	87	65	70						
				70	88	70	75						
				60	89	75	80		·005	<.01			
				70	8690AQ	80	85		·005	·09			
				80	91	85	90		·004	·04			
				80	92	90	95		·014	·37			
				90	93	95	100		·001	·05			
				80	94	100	105		<.001	·07	<.001	·09	
				80	95	105	110		<.001	·06			
				90	96	110	115		<.001	·12			
				90	97	115	120		<.001	·01			
				90	98	120	125		<.001	<.01			
				90	99	125	130		<.001	<.01			
				90	8700AQ	130	135		<.001	·02			
				90	01	135	140						
				90	02	140	145		·002	·03			
				100	03	145	150						

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVD-87--20

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-5' DUMP.											
5-85 LAHARIC BRX FRGS OF RHYOLITE, TUFF & AND (TUFF & PDR) IN F.G. MATRIX.	80-85. MOD. STRONG REG. ALT TO 50% DI SPL.		45-120' 5% IN. MOD FeOx (H) PERV.								
85- AND PDR EUHED PHENOS OF FELDSPAR IN F.G. GRMS DOM MOD BROWN IN COLOR.	85-120' MOD. PROP ALT. WEAK CALCAREOUS ALT TO FELD XTALS.	85-90 1 FLAKE OF SILICA (Q. VEIN.?) NOTED.									
120-150' CONT CHANGE TO DK RED BROWN - DK. GREEN.			T.D. 150'								

SAMPLE RECORD

SAMPLER:

PROJ BVO DRILL HOL 87-21 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag	ASSAYS	ASSAYS	REMARKS BIG DEAL
9.21.87				25	8704AQ	0	5	5	<.001	<.01			VERTICAL
				20	05	5	10		<.001	.03			
				0	06	10	15		<.001	<.01			
				0	07	15	20		.001	<.01			
				20	08	20	25		.001	.09			
				25	09	25	30		.001	.01			
				30	8710AQ	30	35		.001	<.01			
				100	11	35	40		<.001	.01			
				100	12	40	45		<.001	.10			
				100	13	45	50		<.001	.02	<.001	.11	
				100	14	50	55		<.001	.01			
				100	15	55	60		<.001	<.01			
				100	16	60	65		<.001	.08			
				100	17	65	70		<.001	<.01			
				100	18	70	75		<.001	.01			
				100	19	75	80		<.001	.07			
				100	8720AQ	80	85		.001	<.01			
				100	21	85	90		<.001	<.01			
				100	22	90	95		<.001	<.01			
				100	23	95	100		<.001	.03			
				100	24	100	105		<.001	.05			
				100	25	105	110		<.001	.01			
				100	26	110	115	}					
				100	27	115	120	}	<.001	.02			
				100	8728AQ	120	125	}					

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SCALE _____
LOGGED BY: _____

PROJECT _____

HOLE NO. BVO-87-21

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-15' TUFF. FINE TO MED GRAINED SILTY. MOD RED IN COLOR.	0-15' WEAK CALCAREOUS ALT.		0-15' SYN. PERV. FeOx (H). MOD.											
15-25 RHYOLITE FLOW BANDED. LIGHT PINK IN COLOR.	15-25. FRESH - V. WEAK PROP ALT TO MAFICS.													
25-70' TUFF FINE TO MEDIUM GRAINED. SILTY MOD RED IN COLOR	25-70' MOD to STRONG ARGILLIC ALT. WEAK. PERV. CALCAREOUS. ALT. 55-60 STRONG SILIC ALT.		25-70' SYN(?) PERV. FeOx (H) MOD.											
70-80 GRANITE COARSE GRAINED.														
80-85 BRXX COARSE GRAINED	80-110. WEAK-MOD ARGILLIC ALT.		80-110. MOD. PERV. SYN. FeOx(H)											
85-110 TUFF. FLOW BANDED. LOCALLY POR.														
110-125 GRANITE. COARSE GRAINED.							T.D. 125'							

SAMPLE RECORD

SAMPLER:

PROJECT BVO

DRILL HOLE NO. 87-22 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	opt ASSAYS Au	Ag			REMARKS
													BRONCO.
11-14-87				70	8729AQ	0	5	5					VERTICAL
11-15-87				60	30	5	10		<.001	<.01			
				40	31	10	15						
				60	32	15	20		<.001	<.01			
				50	33	20	25						
				50	34	25	30		.001	<.01			
				40	35	30	35		.002	<.01			
				40	36	35	40		.001	<.01			
				50	37	40	45		.001	<.01			
				60	38	45	50		<.001	<.01			
				70	39	50	55		<.001	<.01			
				80	8740AQ	55	60		<.001	<.01			
				60	41	60	65		.002	.11			
				60	42	65	70		.001	<.01			
				80	43	70	75		.003	<.01			
				50	44	75	80		.001	<.01			
				50	45	80	85		<.001	.29			
				50	46	85	90		<.001	.04			
				40	47	90	95		.001	.03			
				80	48	95	100		<.001	<.01	<.001	<.01	
				80	49	100	105		.001	.01			
				90	8750AQ	105	110		<.001	<.01			
				90	51	110	115		<.001	.04			
				80	52	115	120		<.001	.04			
				90	53	120	125		<.001	.07			
				70	54	125	130		<.001	.02			
				80	55	130	135		<.001	.02			
				70	56	135	140		<.001	<.01			
				70	57	140	145		.001	.01			
				70	58	145	150		.001	<.01			
				80	59	150	155		<.001	<.01			
				70	8760AQ	155	160		<.001	<.01			
				80	61	160	165		.001	.02			
				90	62	165	170		.001	<.01			
				80	63	170	175		.001	.02			
				90	64	175	180		.001	<.01			
				90	65	180	185		<.001	<.01			
				90	66	185	190		<.001	<.01			
				80	67	190	195		<.001	<.01			
				90	68	195	200		<.001	.01	.001	<.01	
				100	69	200	205		<.001	.03			
				100	8770AQ	205	210		<.001	<.01			
				100	71	210	215		<.001	<.01			
				60	72	215	220		<.001	<.01			
				60	73	220	225		<.001	<.01			
				70	74	225	230		<.001	<.01			
				70	75	230	235		.009	<.01			
				70	76	235	240		.001	<.01			
				90	77	240	245		.018	.06			
				100	78	245	250		.001	<.01			
11-15-87				100	79	250	253.5		<.001	.03			

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SCALE _____
LOGGED BY: _____

PROJECT B.V.O.

HOLE NO. 87-22.

PAGE 1 OF 1

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.	SAMPLE NO.	REMARKS
0-10 CALCRETE DOM WHITE F.G XTALLINE CALCITE W/ 20% BASALT FRGS.											
10-20 BASALT F.G. DARK GRAY FRGS.	10-20' V. WEAK PROP										
20-180' AND. PORP MOD. BROWN FELD PHENOS IN DK BROWN F.G. MATRIX. HARD-INDURATED.	20- V. WEAK PROP.		20-180' WEAK DISSM. FeOx = BROWN COLOR?				125-145 5% REDDISH BROWN CLAY-FLT ZO? (5% BY VOL/PER SPL).				
		155-160' RARE XTALLINE (DRUSY) QTZ on FRX.									
180-200' AND (PORP) RARE FELD PHENOS IN F.G MATRIX. DOM DK GRAY COLOR. HARD-INDURATED.											
200-225' AND PORP (SIM TO 20-180, COLOR TO MOD BROWN.											
225-250' RHYODACITE ? LOCALLY PORPHYRITIC. PALE YELLOWISH ORANGE FINE TO MED GRAINED. PHENOS OF QTZ & FELD HARD-INDURATED.			225-250' WEAK TO MOD FeOx (?) ON FRX WEAKLY DISSM.				TD @ 253.5'				

SAMPLE RECORD

SAMPLER:

PROJECT BVO DRILL HOLE NO. 87-23 PAGE OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
11·16·87				40	8780AQ	0	5	5	<.001	<.01			MORGAN. VERTICAL
				40	81	5	10						
				50	82	10	15						
				40	83	15	20		<.001	<.01			
				50	84	20	25						
				60	85	25	30		<.001	<.01			
				70	86	30	35						
				70	87	35	40		<.001	<.01			
				80	88	40	45						
				80	89	45	50						
				80	8790AQ	50	55		<.001	<.01			
				90	91	55	60						
				80	92	60	65						
				70	93	65	70		<.001	.02			
				80	94	70	75						
				80	95	75	80						
				80	96	80	85						
				70	97	85	90		<.001	.05	<.001	<.01	
				80	98	90	95						
				90	99	95	100						
				90	8800AQ	100	105						
				90	01	105	110		<.001	<.01			
				90	02	110	115						
				90	03	115	120						
				80	04	120	125						
				60	05	125	130		<.001	<.01			
				90	06	130	135						
				80	07	135	140						
				50	08	140	145						
				50	09	145	150		<.001	<.01			
				50	8810AQ	150	155						
				60	11	155	160						
				60	12	160	165						
				60	13	165	170		<.001	<.01			
				70	14	170	175						
				60	15	175	180						
				60	16	180	185						
				70	17	185	190		<.001	.03			
				70	18	190	195						
				70	8819AQ	195	200						

SCALE
LOGGED BY:

PROJECT B.V.O.

HOLE NO. 87-23

PAGE 1 OF 1

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-45' CALCRETE & OVB FRGS OF BASALT. AND & RHYODAC IN CALCAREOUS MATRIX W/ DENSY WATERLAIN NODES OF $CaCO_3$ LOCALLY.	0-45' ZONES/BANDS of INTENSE ARGILLIC ALT.										
45-110' AND MOD RED FINE GRAINED W/ LOCAL PHENO'S OF FELDSPAR.	45-7 WEAK ARGILLIC ALT STRONG PROP. ALT. 75-80 INTENSE ARG. ALT. [FLT ZO?].		45-200 PERVASIVE FeO_x (H).								
110- DACITE. V. PALE YELLOWISH ORANGE PORPHYRITIC. W/ PHENOS OF FELDSPAR? & MAFIC (BIOT) IN F.G. MATRIX. 165-200 COLOR CHANGES TO DARK ORANGE-BROWN.	110- WEAK PROP ALT. GENERALLY. MOD ARG ALT LOCALLY LOCALLY SILIC.						T.D. @ 200'				

SAMPLE RECORD

SAMPLER:

PROJ[illegible] B.V.O. DRILL HOL[illegible] 87-24 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
11-17-87				70	8820AQ	0	5	5					
				70	21	5	10		<.001	.04			
				60	22	10	15						
				70	23	15	20						
				70	24	20	25		<.001	.04			
				70	25	25	30		<.001	<.01			
				70	26	30	35		<.001	<.01			
				70	27	35	40		.001	<.01			
				60	28	40	45		<.001	<.01	<.001	<.01	
				70	29	45	50		.001	<.01			
				60	8830AQ	50	55		.025	<.01			
				70	31	55	60		.019	<.01			
				70	32	60	65		.023	<.01			
				70	33	65	70		.019	<.01			
				70	34	70	75		.010	<.01			
				70	35	75	80		.032	<.01			
				70	36	80	85		.012	<.01			
				80	37	85	90		.003	<.01			
				80	38	90	95		.008	<.01			
				80	39	95	100		.005	<.01			
				70	8840	100	105		.004	<.01			
				80	41	105	110		.006	.05			
				80	42	110	115		.025	.06			
				70	43	115	120		.011	<.01			
				70	44	120	125		.001	<.01			
				70	45	125	130		.001	<.01			
				80	46	130	135		.002	<.01			
				80	47	135	140		.009	<.01			
				90	48	140	145		.054	<.01	.043	<.01	
				90	49	145	150		.055	<.01			
				80	8850AQ	150	155		.020	.02			
				80	51	155	160		.008	<.01			
				40	52	160	165		.007	<.01			

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SCALE
LOGGED BY:

PROJECT B.V.O.

HOLE NO. 87-24

PAGE 1 OF

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-55' FELSITE PALE CREAM COLORED CLAY.	0- INTENSE ARGILLIC ALT. - PERV.		0-55' LOCAL ZO'S OF PERV. FeOx(3). + (H). DOM PALE CREAM IN COLOR.											
55-110' BRXX ZO ANGULAR FRGS IN F.G. MATRIX. ANGULAR FRGS ARE DOM F.G DACITE (silic) MATRIX IS PERV. IRON-STAINED.	55-110' MOD PERV. SILICIFICATION. FELDSPAR FRGS & PHENOS LOCALLY ARG. ALT.	55-60. 50% BY VOL QTZ FRGS w/ SULPHIDE S&P. TRANSLUCENT.	55-110' MATRIX IS PERV FeOx(H) STAINED - MOD.											
		75-80 - 15 % BY VOL BANDED QTZ FRGS. WHITE to CLARE.												
		105-110' 80% BY VOL QTZ FRGS. WHITE TO CLARE.												
110-165' AND POR w/ STOCKWORK QTZ. PHENOS & FELD IN F.G. RED COLORED MATRIX.	110-165. MOD PERV SILIC. WEAK ARG ALT & FELDSPARS LOCALLY.	110-150' QTZ STOCK-WORK ZO. LOCALLY BANDED. 5-20% BY VOL QTZ.	110-14 MOD-INT. PERVASIVE FeOx(H).											
		150-165' DECR QTZ FRGS GENERALLY. LOCALLY 160-165 to 15% BY VOL.	140-165. DECR PERV. FeOx(H)				T.D. 165'							

SAMPLE RECORD

SAMPLER:

PRO[illegible] B.V.O. DRILL HOL[illegible] 87-25 PAGE 1 OF 2

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	opt ASSAYS Au	Ag			REMARKS
11-17-87				90	8853AQ	0	5	5	.005	<.01			VERTICAL - BRONCO.
				60	54	5	10		.007	<.01			
				70	55	10	15		.008	.03			
				70	56	15	20		.003	<.01			
				60	57	20	25		.003	<.01			
				70	58	25	30		.005	<.01			
				70	59	30	35		<.001	<.01			
				70	8860AQ	35	40		<.001	<.01			
				80	61	40	45		.003	.04			
				70	62	45	50		.001	.01			
				70	63	50	55		.001	<.01			
				80	64	55	60		.007	.02			
				70	65	60	65		.007	.23			
				80	66	65	70		.005	.18			
				80	67	70	75		.015	.28			
				100	68	75	80		.010	.32	.011	<.01	
				80	69	80	85		.007	<.01			
				90	8870AQ	85	90		.008	<.01			
				100	71	90	95		.006	.11			
				100	72	95	100		.007	<.01			
				90	73	100	105		.008	<.01			
				90	74	105	110		.005	<.01			
				80	75	110	115		.012	.11			
				90	76	115	120		.009	<.01			
				90	77	120	125		.008	<.01			
				90	78	125	130		.020	<.01			
				90	79	130	135		.016	<.01			
				90	8880AQ	135	140		.010	.01			
				90	81	140	145		.009	.06			
				90	82	145	150		.010	.10			
				90	83	150	155		.004	<.01			
				90	84	155	160		<.001	<.01			
				80	85	160	165		.002	<.01			
				90	86	165	170		.002	<.01			
				80	87	170	175		.003	<.01			
				80	88	175	180		.007	.06	.006	<.01	
				90	89	180	185		.002	<.01			
				90	8890AQ	185	190		.003	.20			
				90	91	190	195		.002	.01			
				80	92	195	200		.004	<.01			
				80	93	200	205		.004	<.01			
				90	94	205	210		.001	<.01			
				90	95	210	215		.003	.51			
				90	96	215	220		.008	<.01			
				90	97	220	225		.002	.01			
				90	98	225	230		<.001	<.01			
				90	99	230	235		.003	<.01			
				90	8900AQ	235	240		.001	<.01			
				90	01	240	245		.002	<.01			
				90	02	245	250		.001	<.01			
				90+	03	250	255		.003	<.01			
				90	04	255	260		<.001	<.01			
				90	05	260	265		<.001	<.01			
				90	06	265	270		<.001	<.01			
				95	07	270	275		.001	<.01			
				90	08	275	280		<.001	<.01	.001	<.01	
				100	09	280	285		.001	<.01			
				100	8910AQ	285	290		.001	<.01			
				100	11	290	295		<.001	<.01			
				100	12	295	300		[illegible]	[illegible]			

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SCALE
LOGGED BY:

PROJECT B.V.O.

HOLE NO. 87-25

PAGE ___ OF ___

ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-295. AND POR EUHED XTALS OF FELDSPAR IN LT GREEN CHLORITIC MATRIX. LOCALLY HARD & INDURATED.	0- MOD to STRONG PROP ALT.	0-5 WEAKLY CALCAREOUS.	0-35. WEAK PERVASIVE FeOx(2) LOCALLY INCR ON & ADJ to FRX.								
			60-80 WEAK FeOx > ON FRX.								
			80-195. WEAK H. STAINING PERVASIVE THROUGHOUT SAMPLE.								
			200-220 > FeOx(H) MOD. PERVASIVE.								
295-300 AND POR EUHED FELSITE XTALS IN LT GREEN MATRIX	295-300 INTENSE PROP ALT.										
300-320 AND POR	300-320 MOD ARG ALT.		300-320. PERV. FeOx (2).								
320-330 GRANITE							T.D. 530'				

SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 87-25 PAGE 2 OF 2

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
				95	8913AQ	300	305		<.001	<.01			
				95	14	305	310		.044	.10			
				95	15	310	315		.033	<.01			
				90	16	315	320		.001	<.01			
				90	17	320	325		.001	<.01			
				90	8918AQ	325	330		<.001	<.01			

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SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 87-26 PAGE 1 OF 1

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	DRILL RUN From	DRILL RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS Vertical. E. Verdstone.
11-18-87				95	8919AQ	0	5	5					
				95	20	5	10						
				80	21	10	15		<.001	<.01			
				80	22	15	20						
				70	23	20	25						
				80	24	25	30		<.001	<.01			
				60	25	30	35						
				50	26	35	40						
				60	27	40	45						
				50	28	45	50						
				50	29	50	55		<.001	<.01			
				50	8930AQ	55	60						
				60	31	60	65						
				60	32	65	70		<.001	<.01			
				60	33	70	75						
				60	34	75	80						
				60	35	80	85						
				60	36	85	90						
				60	37	90	95		<.001	.03			
				60	38	95	100						
11-19-87				70	39	100	105						
				70	8940AQ	105	110						
				70	41	110	115		<.001	<.01	<.001	<.01	
				70	42	115	120						
				70	43	120	125						
				70	44	125	130		<.001	<.01			
				80	45	130	135						
				80	46	135	140						
				80	47	140	145				<.001	.05	
				80	48	145	150		.001	.11	<.001	.13	
				80	49	150	155				<.001	.14	
				80	8950AQ	155	160				<.001	.19	
				80	51	160	165				<.001	.18	
				80	52	165	170		.015	<.01	<.001	.01	
				70	53	170	175				.046	.11	
				70	54	175	180				.015	.04	
				70	55	180	185				.005	.08	
				70	56	185	190		.003	<.01	.006	.11	
				80	57	190	195				<.001	.06	
				80	58	195	200				.001	.06	
				70	59	200	205				.007	.09	
				70	8960AQ	205	210		.005	<.01	.006	.14	
				70	61	210	215				<.001	.06	
				70	62	215	220				<.001	.04	
				60	63	220	225						
				70	64	225	230		<.001	<.01			
				60	65	230	235						
				60	66	235	240						
				60	67	240	245						
				80	68	245	250						
				80	69	250	255		.002	.01			
				70	8970AQ	255	260						
				80	71	260	265						
				80	72	265	270						
				80	73	270	275		<.001	<.01			
				80	74	275	280						
				70	75	280	285		<.001	<.01			
				70	76	285	290						

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SCALE
LOGGED BY:

PROJECT B.V.O.

HOLE NO. 87-26

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ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	Ag.				SAMPLE NO.	REMARKS
0-170' And Tuff With Porphyritic Zones Locally.	0-170 Prop Alt. Porphyry Shown. Argillic Alt of Feld Pheno's. 55-60' Mod-Intense Argillic Alt.	115-170 SiO_2 on Frx Locally.	0-170 Mod to Strong Pervasive FeOx (H). Local Incr on & Adj to Frx. 195-170 Weak, Local FeOx(S) on Frx.											
170-205' Tuff Fine Grained, Lt Orange Brown in Color. Hard Indurated. Local Porphyritic Zones.		170-175 Weakly Calcareous. 185-205. Frgs are Locally Siliceous (Pervasive (y).	170-205' Weak FeOx(H) on Frx.											
205-250. Tuff Fine Grained, Lt. Lavender in Color w/ S.P. of Fresh Mafics to 1mm.	205-225' V. Weak Prop Alt - Tarnished Edges to Mafics (Biotite?). 225-250. Mod to Strong Argillic Alt. Generally Fresh & < Alt Frgs Locally.													
250- And Tuff F.G. Locally Porphyritic	250-270. Mod to Strong Prop Alt.		250-270. Weak. Pervasive FeOx(H). Locally > on & Adj. To Frx.											
270-290 Granite Qtz Rich, Euhedral	270-290 Strong Prop Alt. - No Mafics Noted		270-290. Weak-Mod FeOx (H) on & Adj to Frx.				T.D. @ 290'.							

SAMPLE RECORD

SAMPLER:

PROJECT B.V.O. DRILL HOLE NO. 87-27 PAGE 1 OF

DATE DRILLED	BIT SIZE	RECOVERY Ft.	RECOVERY Lbs.	RECOVERY %	SAMPLE NUMBER	RUN From	RUN To	INTERVAL	ASSAYS Au	ASSAYS Ag			REMARKS
11-19-87	•			50	8977AQ	0	5	5					VERTICAL - MORGAN
				50	78	5	10						
				50	79	10	15		.001	<.01			
				50	8980AQ	15	20						
				50	81	20	25						
				50	82	25	30						
				50	83	30	35		.001	<.01			
				50	84	35	40						
				60	85	40	45						
				60	86	45	50		.001	<.01			
				60	87	50	55						
				70	88	55	60						
				70	89	60	65						
				50	8990AQ	65	70		<.001	<.01			
				60	91	70	75						
				60	92	75	80						
				60	93	80	85						
				50	94	85	90		<.001	<.01	<.001	<.01	
				60	95	90	95						
				60	96	95	100						
				70	97	100	105						
				80	98	105	110		<.001	<.01			
				80	99	110	115						
				80	9000AQ	115	120						
				80	01	120	125						
				80	02	125	130		<.001	<.01			
				80	03	130	135						
				80	04	135	140						
				80	05	140	145						
				80	06	145	150		<.001	<.01			
				80	07	150	155						
				85	08	155	160						
				90	09	160	165						
				90	9010AQ	165	170		<.001	<.01			
				90	11	170	175						
				40	12	175	180						
				45	13	180	185						
				80	14	185	190		<.001	<.01			
				95	15	190	195						
				100	9016AQ	195	200						

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SCALE _____
LOGGED BY: _____

PROJECT B.V.O.

HOLE NO. 87-27

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ROCK TYPE	ALTERATION REMARKS	GANGUE REMARKS	METALLIZATION	DEPTH	% REC	GRAPHIC COL.	DETAIL	ASSAYS Au.	ASSAYS Ag.	SAMPLE NO.	REMARKS
0-10 CALCRETE BASALT FRGS IN CALCAREOUS CEMENT.											
10-110' FELSITE(?) PALE CREAM COLOUR	10-110' INTENSE ARG ALTERATION. (90% OF SPL.										
	80-105' ARG ALT 6) 98% OF SPL										
110-200' FELSITE F.G. > FeOx & Silic ALT.	110-135' 50% OF SPL IS WEAK to MOD SILICEOUS.		110-185 MOD FeOx (H) LOCALLY STRONGER ON & ADJ to FRX.								
	135- WEAK ARG ALT DOM ADJ to FRX.										
			185-200 DECR FeOx (H) & INCR FeOx (S-S). DOM. ON & ADJ to FRX.								
							200' TD.				