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PRINTED: 08/16/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: STONEWALL

ALTERNATE NAMES:
PATENTED CLAIMS MS 4601
LONE STAR
MISSING LINK

YAVAPAI COUNTY MILS NUMBER: 1015A

LOCATION: TOWNSHIP 12 N RANGE 2 E SECTION 18 QUARTER NE
LATITUDE: N 34DEG 25MIN 40SEC LONGITUDE: W 112DEG 11MIN 07SEC
TOPO MAP NAME: MAYER - 7.5 MIN

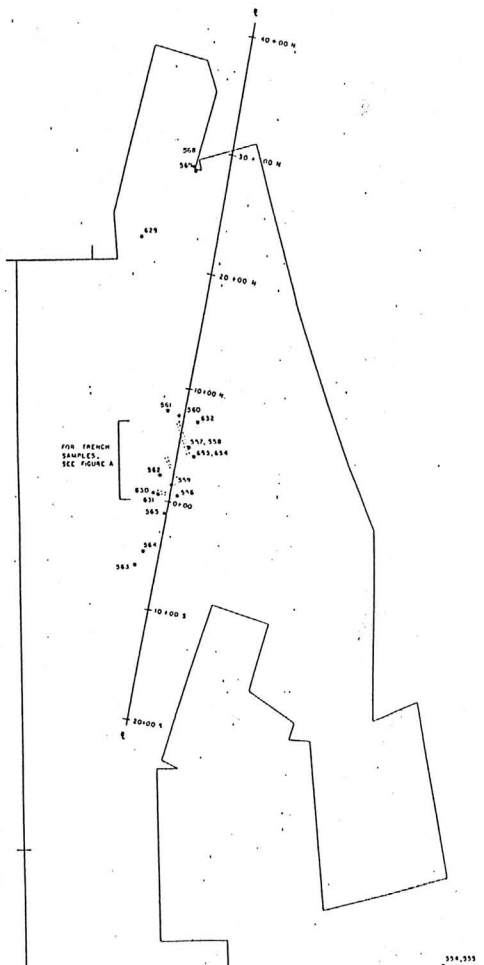
CURRENT STATUS: EXP PROSPECT

COMMODITY:
COPPER OXIDE
GOLD
SILVER
ZINC
GEMSTONE PY IN SCHIST

BIBLIOGRAPHY:
USGS MAYER QUAD
BLM MINING DISTRICT SHEET 45
ADMMR STONEWALL MINE FILE

SAMPLE NO	Cu ppm	Pb ppm	Zn ppm	Au oz/ton	Ag oz/ton
81	510	690	200	.010	.079
82	800	500	970	.009	.038
83	340	.21%	.15%	.006	.377
84	235	.15%	80	.019	.174
85	170	820	460	.032	.281
86	325	110	450	.003	nil
87	240	.33%	.37%	.110	1.131
88	540	.25%	300	.023	.114
89	620	.12%	510	.006	.145
90	310	.53%	760	.015	.377
91	415	.29%	.19%	.038	.734
92	100	.40%	170	.046	.551

TRENCH SAMPLES, 1" = 100' FIGURE A



SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Au oz/ton	Ag oz/ton
554	0.28%	390	440	nil	.165
555	0.18%	330	770	.012	.038
556	310	950	385	.032	.783
557	335	0.13%	490	.023	.174
558	115	420	355	.034	.435
559	110	190	30	.035	1.015
560	205	0.42%	215	.055	.793
561	300	0.50%	640	.073	.928
562	400	670	0.13%	.029	.174
563	55	390	10	.024	.174
564	280	640	145	.015	.290
565	580	840	890	.004	.116
566	0.17%	0.22%	1.1%	.018	.870
567	0.23%	0.34%	0.45%	.012	1.943
629	0.45%	0.14%	0.45%	.033	.281
630	0.12%	340	70	.012	.174
631	130	90	90	.012	.087
632	165	0.11%	270	.006	.203

NOTE ALL SAMPLES ARE GOSSAN MATERIAL

FIGURE 3

AMERICAN SELCO INC.

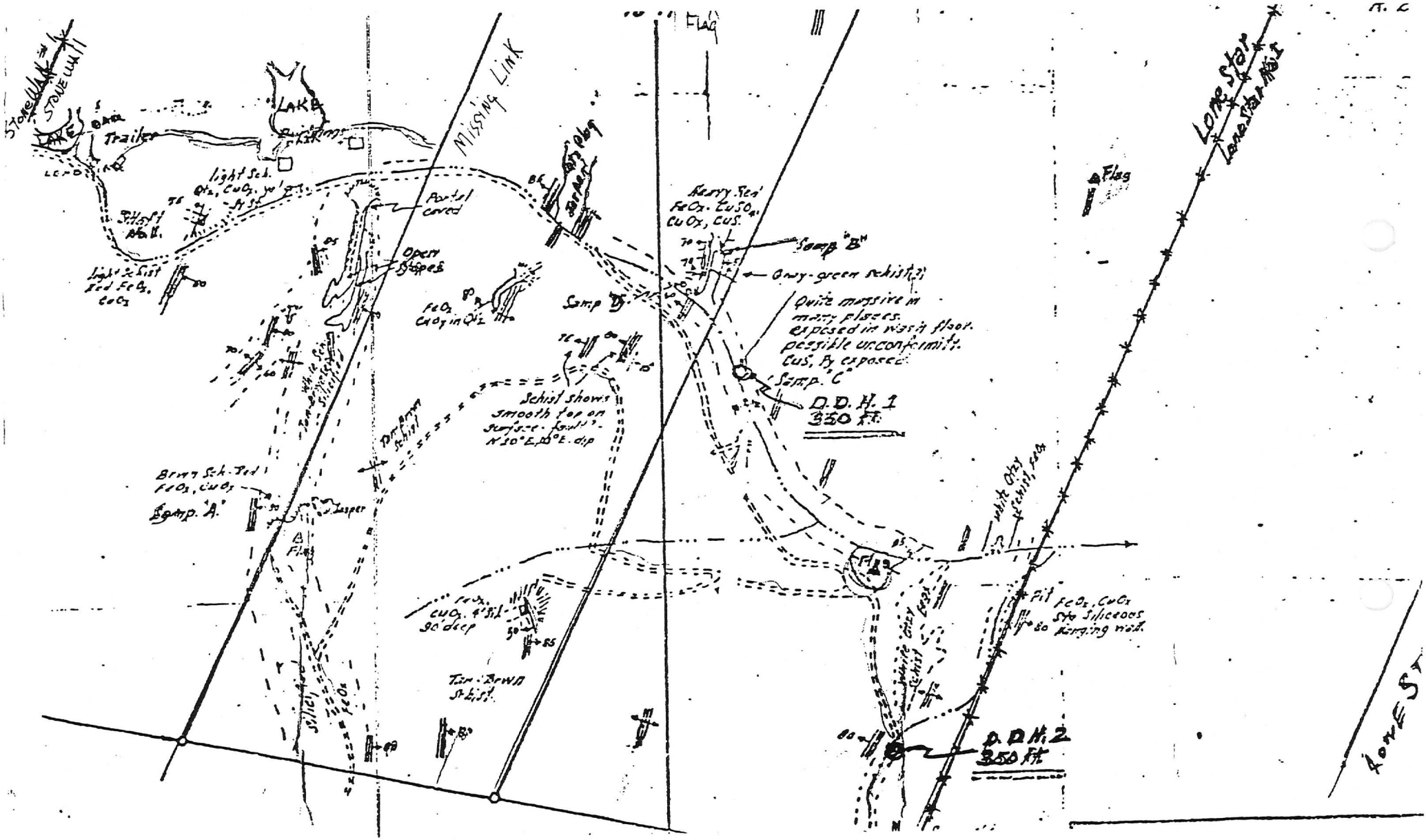
ARIZONA PRECAMBRIAN PROJECT

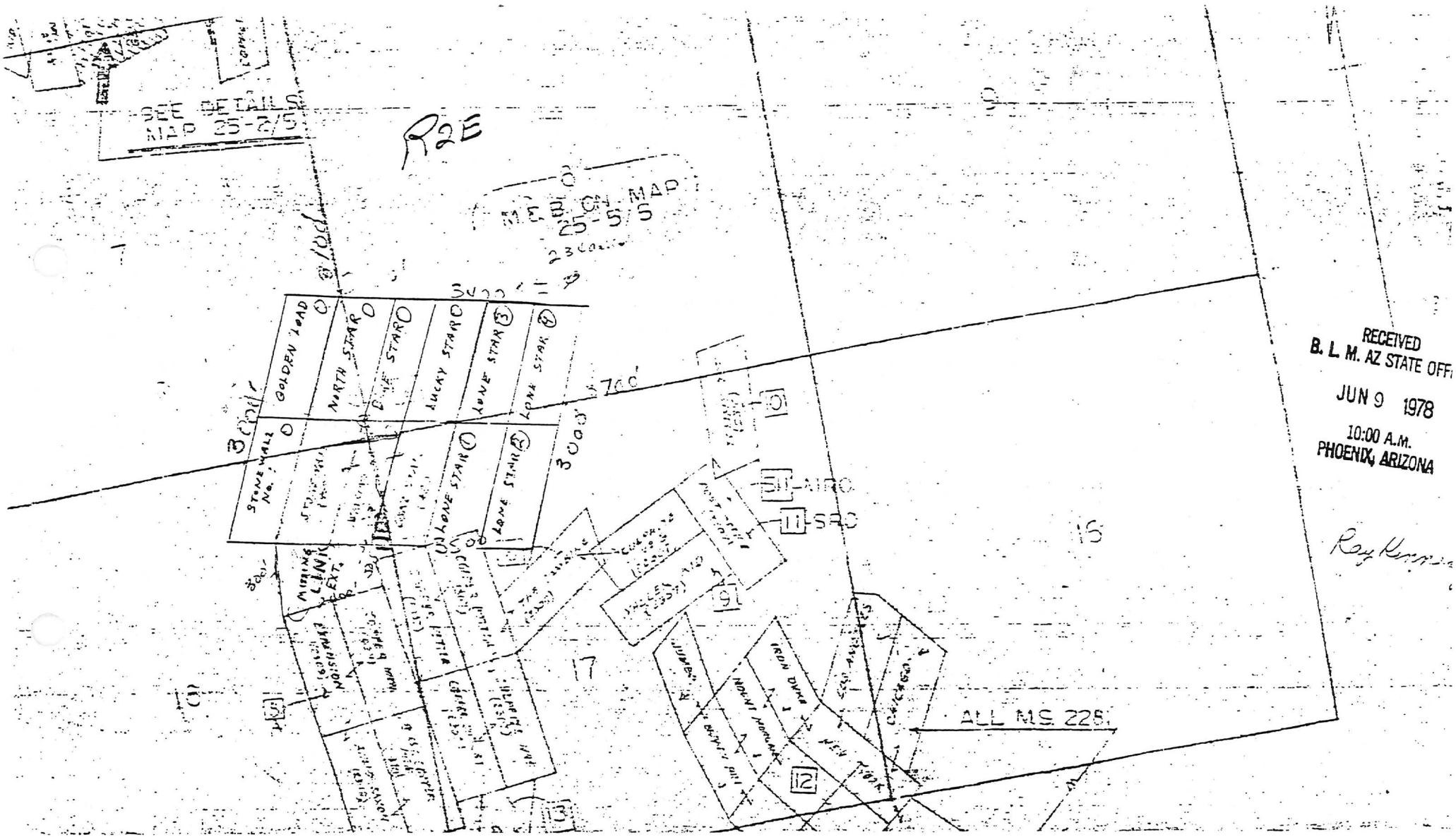
BINGHAMPTON-NORTH SUNDAY PROPERTIES

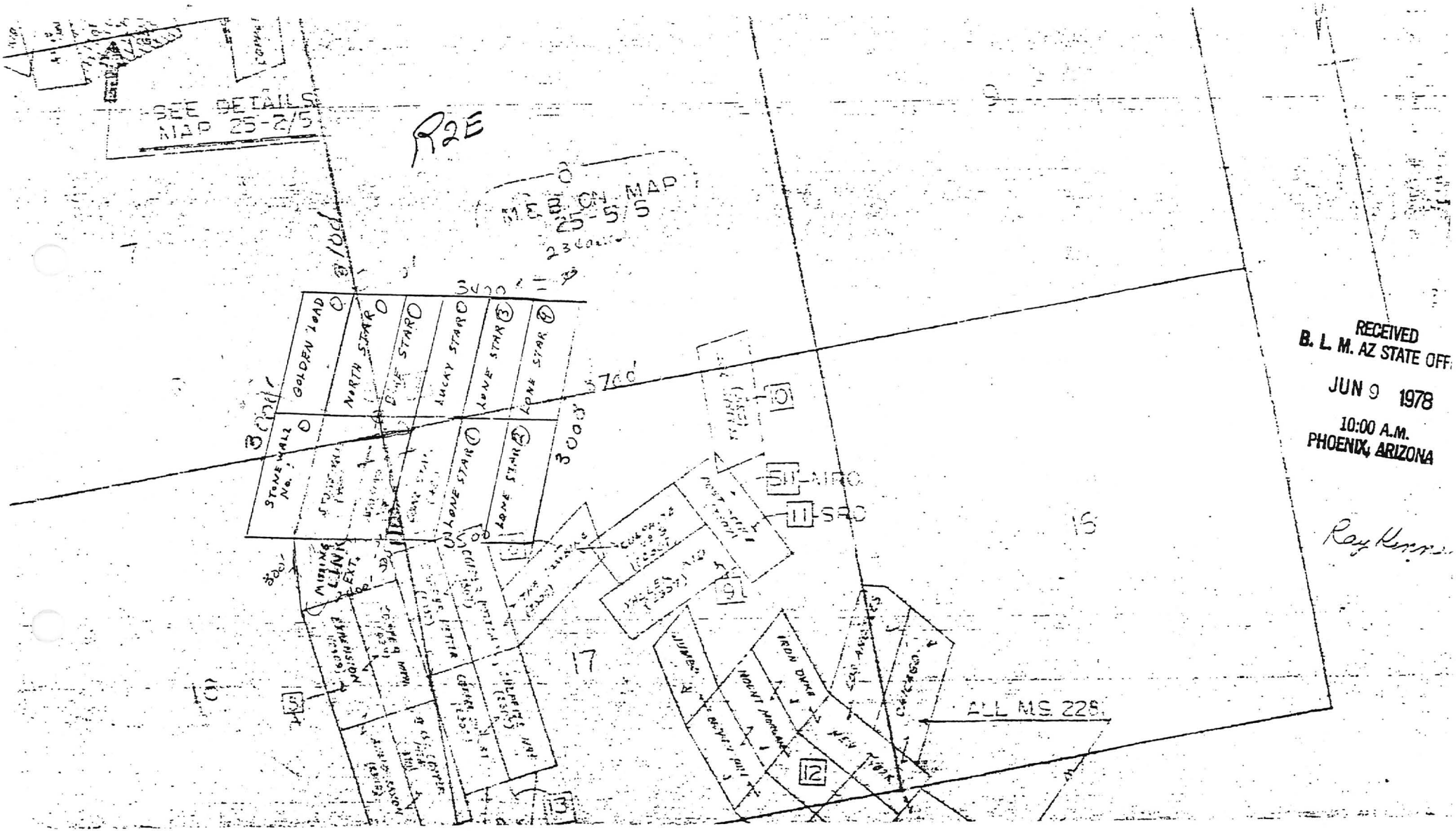
ROCK GEOCHEMISTRY

YAVAPAI COUNTY, ARIZONA

SCALE 1" = 500'


Stonewall
Stone wall
Lake
Trailer
Lake
Missing Link
Flag
Lone Star
Lone Star Road
Light Sch.
Qtz, CuOx, yel
Portal cored
Open Stopes
Light Sch
Red FeOx
CuOx
FeOx
CuOx in Qtz
Samp "D"
Heavy Sch
FeOx, CuSO4
CuOx, CuS
Samp "B"
Gray-green schist
Quite massive in many places.
exposed in wash floor.
possible unconformity.
CuS, By exposed
Samp. "C"
D.D.H. 1
350 ft.
Schist shows
smooth foot on
surface. Strike
N 30° E, 15° E. dip
Brown Sch. Red
FeOx, CuOx
Samp. "A"
Dark Brown Schist
White Qtz
Schist, FeOx
Flag
FeOx
CuOx, 4' Sil
90' deep
Tan-Brown
Schist
Schist
FeOx
Flag
Pit FeOx, CuOx
Sty Siliceous
Kinging wall
D.D.H. 2
350 ft.
Lone Star


SEE DETAIL MAP 25-2/5
R2E
SEE DETAIL MAP 25-5/5
GOLDEN LEAD
NORTH STAR
LUCKY STAR
LONE STAR
STONEWALL No.
MINING CLINIC EXT.
EXTENSION
IRON DYKE
INDIAN MOUNTAIN
ALL MS 2281
16
17
3000'
700'
RECEIVED
B. L. M. AZ STATE OFFI
JUN 9 1978
10:00 A.M.
PHOENIX, ARIZONA


SEE DETAILS
MAP 25-2/5
R2E
MEB OF MAP
25-5/5
GOLDEN LEAD
NORTH STAR
LUCKY STAR
LONE STAR
STONE WALL
No. 1
MINING CLAIM
NORTHWEST EXT.
IRON DYKE
MOUNT MORGAN
ALL MS 228
15
17
SRO
RECEIVED
B. L. M. AZ STATE OFF
JUN 9 1978
10:00 A.M.
PHOENIX, ARIZONA
Ray Kemp

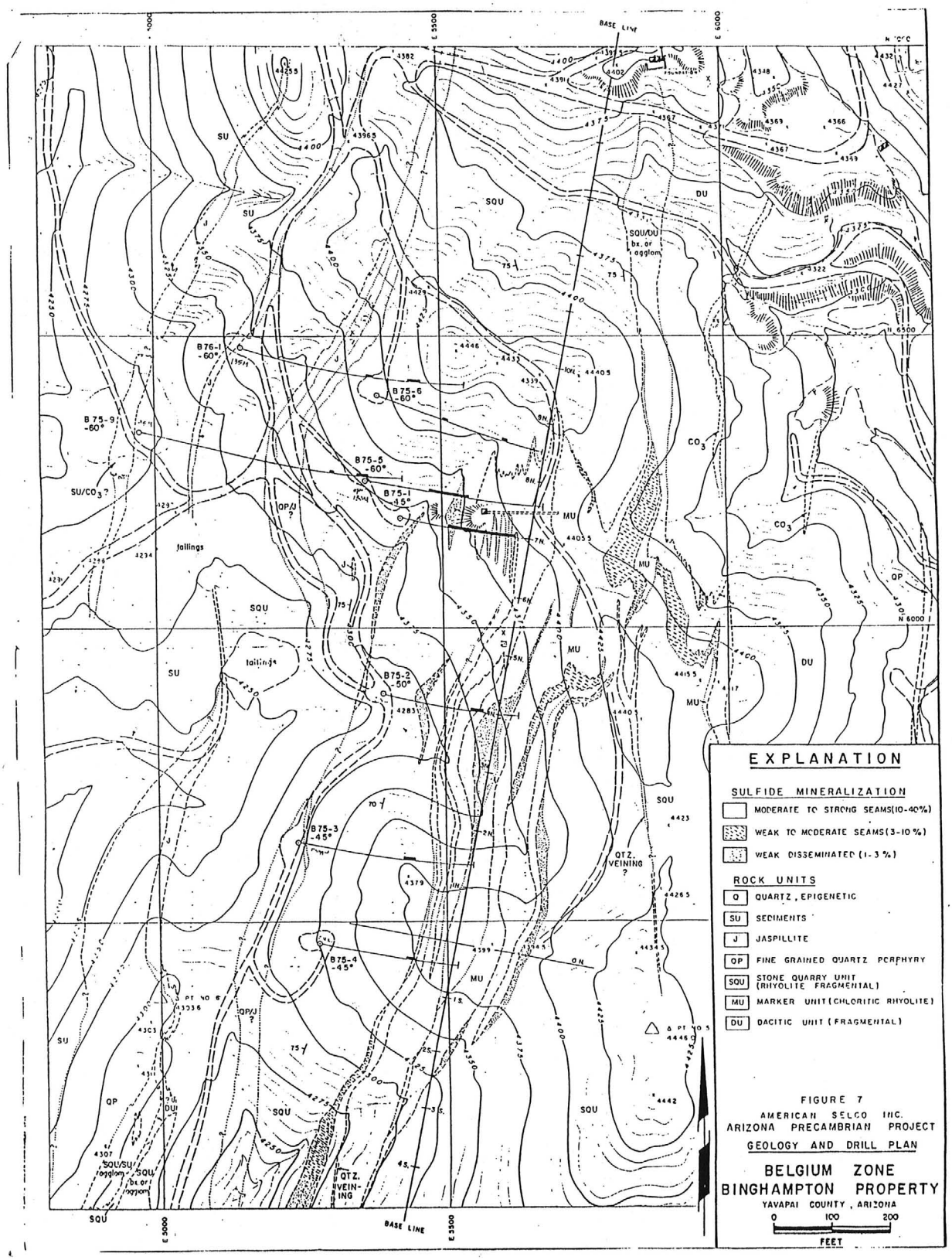


FIGURE 7
AMERICAN SELCO INC.
ARIZONA PRECAMBRIAN PROJECT
GEOLOGY AND DRILL PLAN
BELGIUM ZONE
BINGHAMPTON PROPERTY
YAVAPAI COUNTY, ARIZONA
0 100 200
FEET

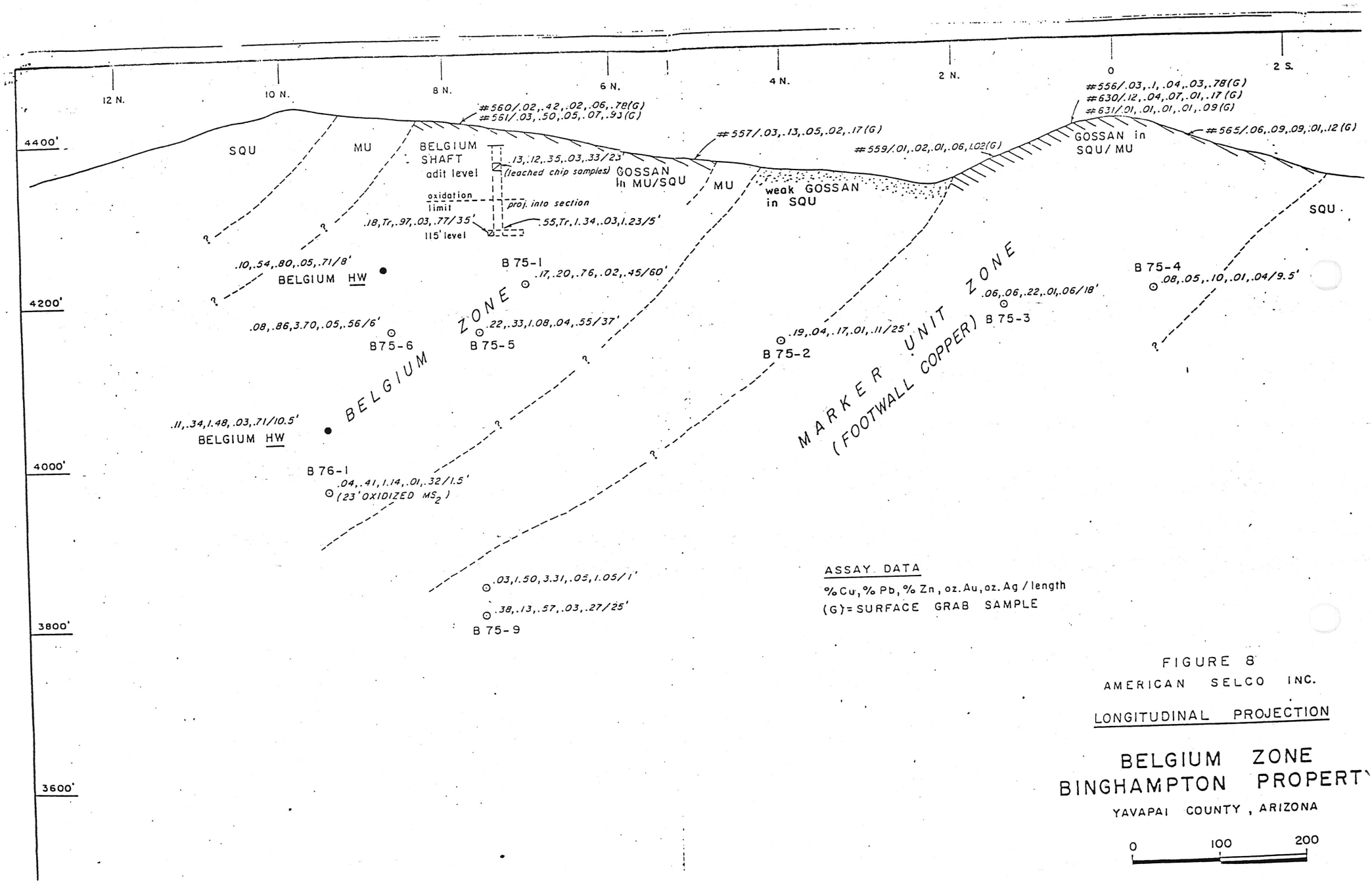


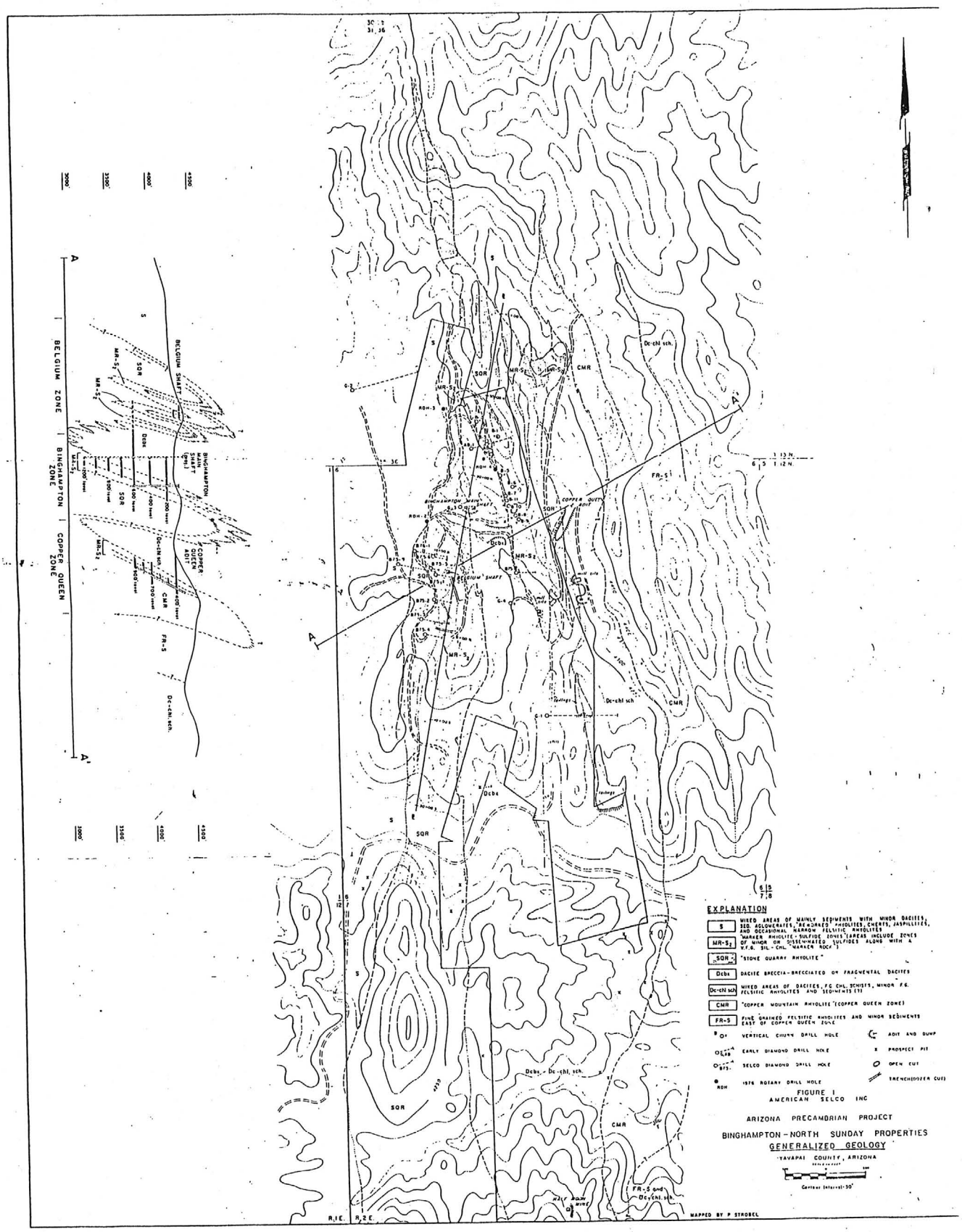
FIGURE 8

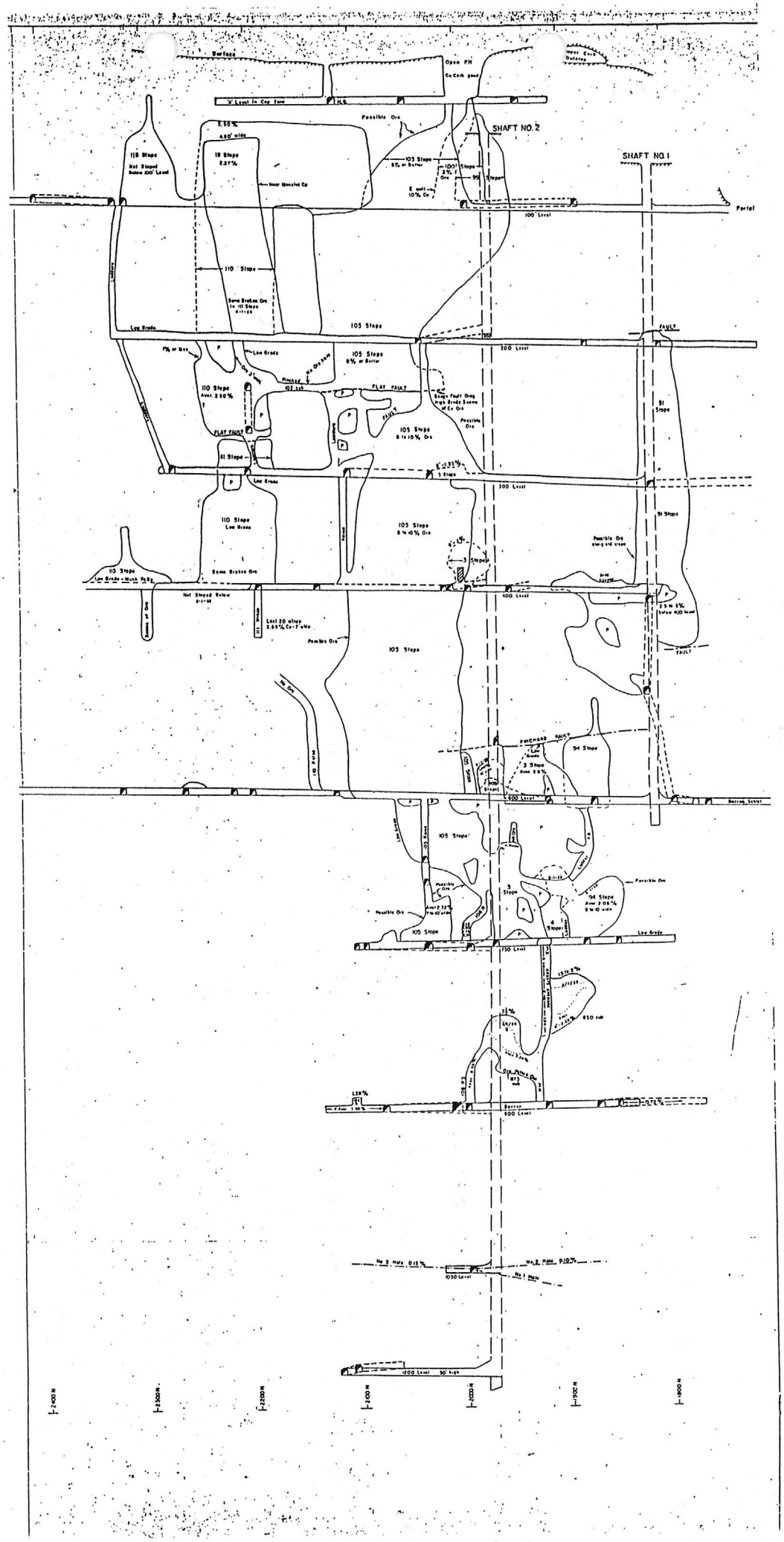
AMERICAN SELCO INC.

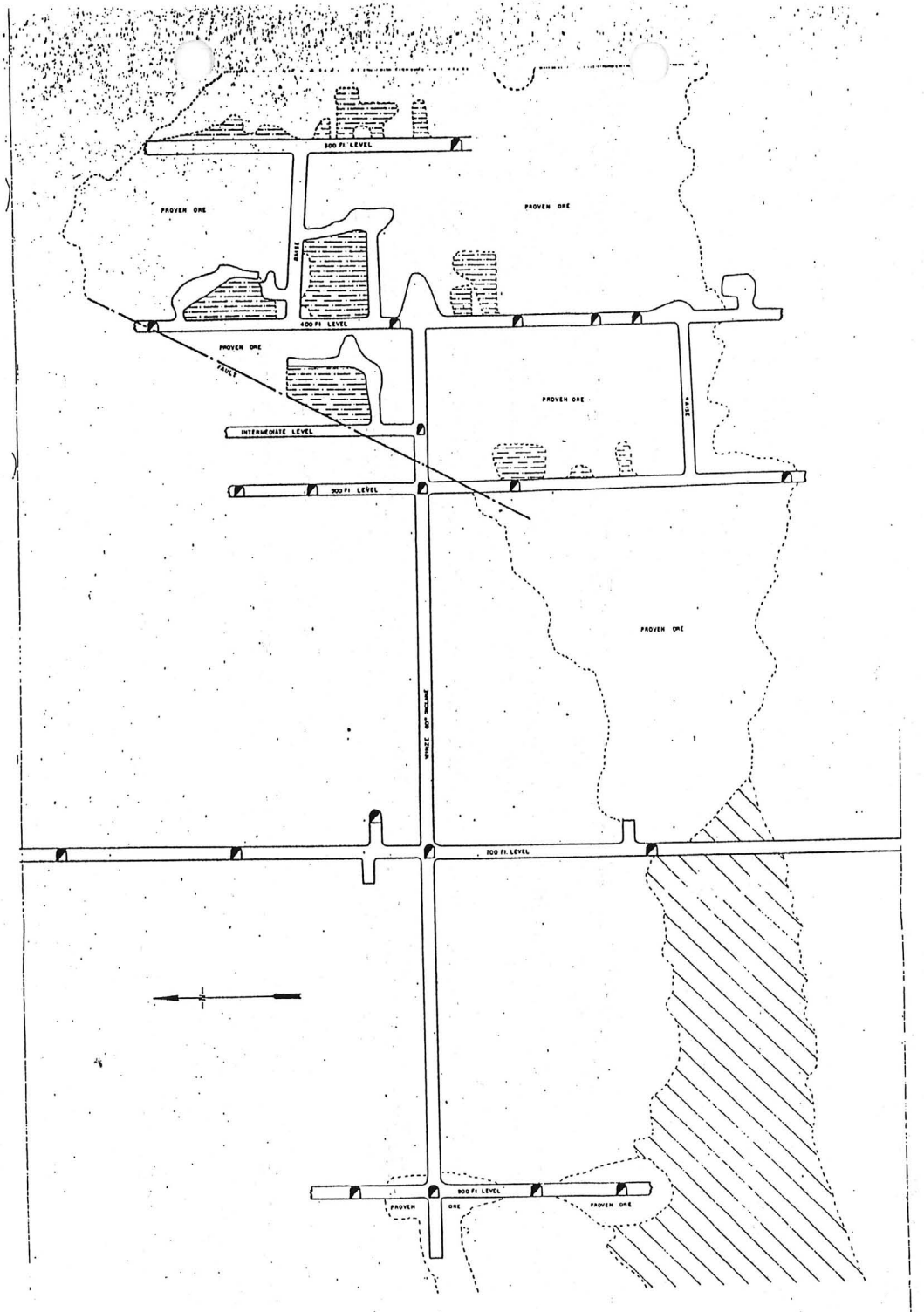
LONGITUDINAL PROJECTION

BELGIUM ZONE
BINGHAMPTON PROPERTY

YAVAPAI COUNTY, ARIZONA


EXPLANATION
S
MIXED AREAS OF MAINLY SEDIMENTS WITH MINOR DACITES, SED. AGLOMERATES, "BEADED" RHYOLITES, CHERTS, JASPILLITES, AND OCCASIONAL NARROW FELSITIC RHYOLITES
MR-S2
"MARKER RHYOLITE - SULFIDE ZONES" (AREAS INCLUDE ZONES OF MINOR OR DISSEMINATED SULFIDES ALONG WITH A V.F.G. SIL.-CHL. "MARKER ROCK")
SQR
"STONE QUARRY RHYOLITE"
Dcb1
DACITE BRECCIA-BRECCIATED OR FRAGMENTAL DACITES
Dc-chl sch
MIXED AREAS OF DACITES, F.G. CHL. SCHISTS, MINOR F.G. FELSITIC RHYOLITES AND SEDIMENTS (?)
CMR
"COPPER MOUNTAIN RHYOLITE" (COPPER QUEEN ZONE)
FR-S
FINE GRAINED FELSITIC RHYOLITES AND MINOR SEDIMENTS EAST OF COPPER QUEEN ZONE
VERTICAL CHURN DRILL HOLE
EARLY DIAMOND DRILL HOLE
SELCO DIAMOND DRILL HOLE
1976 ROTARY DRILL HOLE
ADIT AND DUMP
PROSPECT PIT
OPEN CUT
TRENCH (DOZER CUT)
FIGURE I
AMERICAN SELCO INC
ARIZONA PRECAMBRIAN PROJECT
BINGHAMPTON-NORTH SUNDAY PROPERTIES
GENERALIZED GEOLOGY
YAVAPAI COUNTY, ARIZONA
Contour Interval-30'
MAPPED BY P STROBEL
BELGIUM ZONE
BINGHAMPTON ZONE
COPPER QUEEN ZONE
BELGIUM SHAFT
BINGHAMPTON SHAFT
COPPER QUEEN ADIT
BINGHAMPTON MAIN SHAFT
COPPER QUEEN SHAFT
HALF MOON MINE
R.1E.
R.2E.


Surface
Open Pit
SHAFT NO. 2
SHAFT NO. 1
Portal
100 Level
300 Level
400 Level
750 Level
900 Level
1050 Level
1200 Level
105 Slope
110 Slope
118 Slope
18 Slope
81 Slope
91 Slope
94 Slope
115 Slope
FAULT
FLAT FAULT
Low Grade
Possible Ore
Some Broken Ore
Barren Schist



LEGEND

PROVEN ORE

BROKEN ORE

POSSIBLE ORE

NOTE: Copied from old Copper Queen Map showing Ore Reserves and areas now all sloped out.

		REVISION
		Date
		By

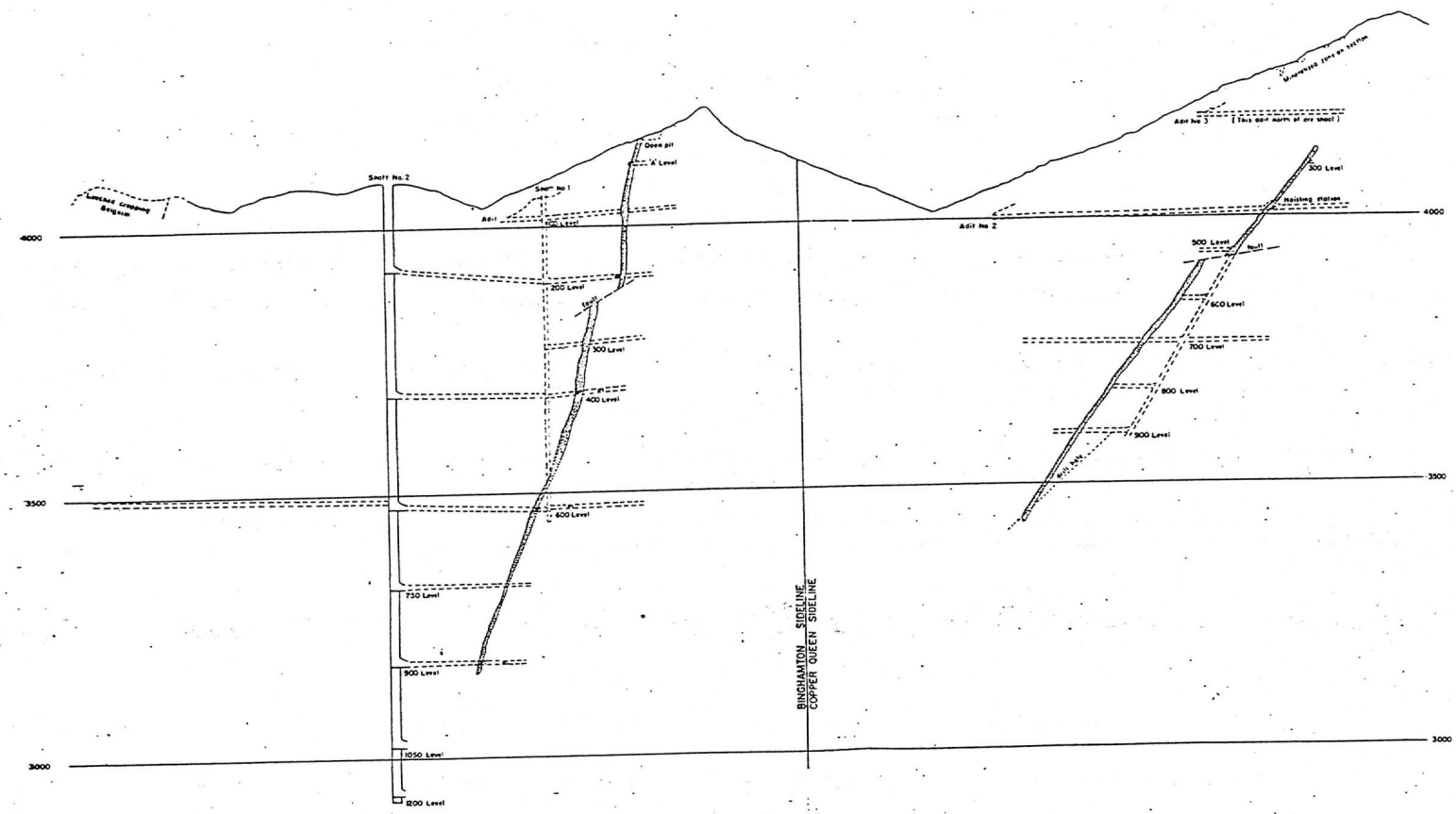
Dist. ARIZONA

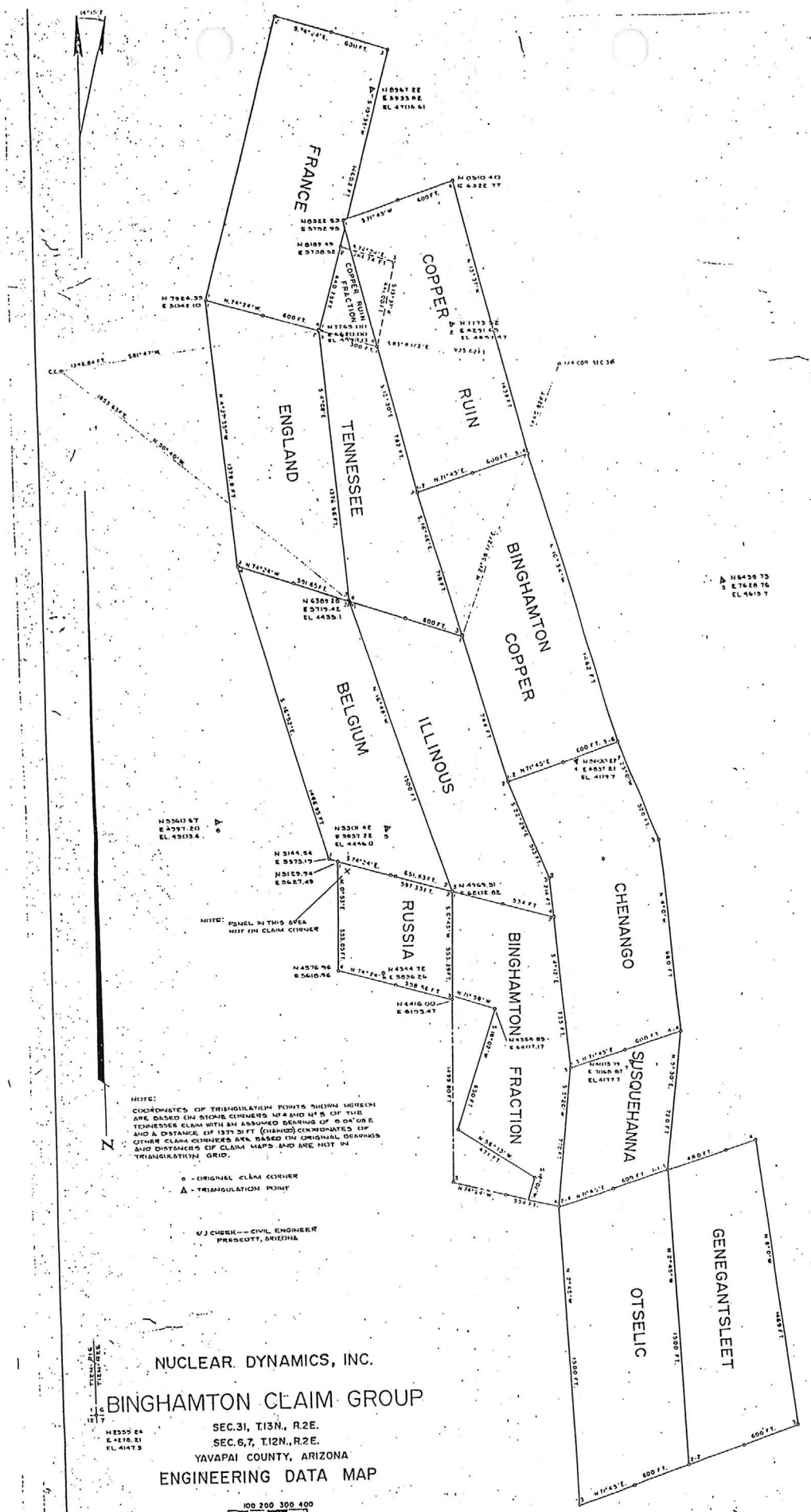
Sec. Comp. MARICOPA

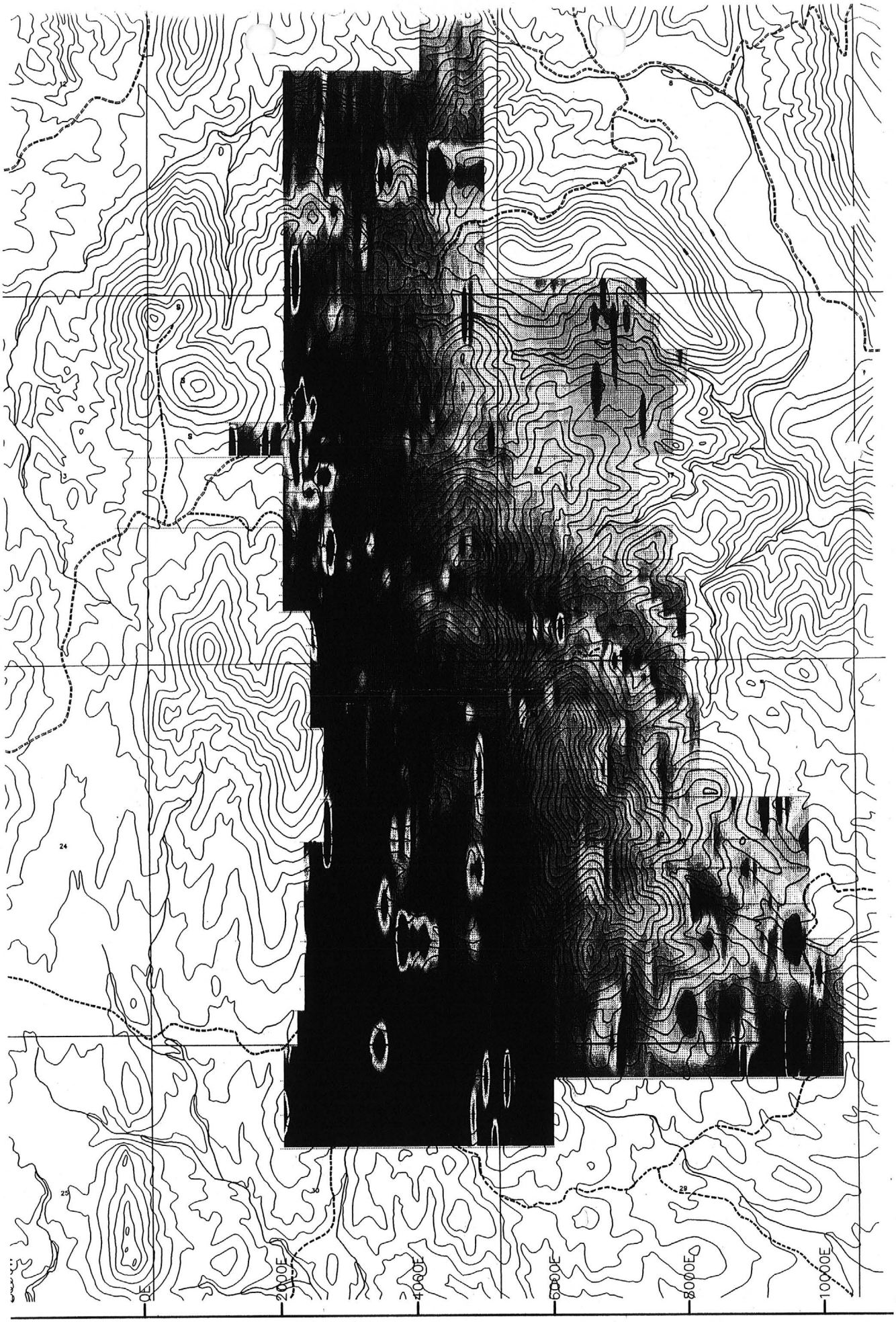
Twp. 1 S Rge. 1 E

COPPER QUEEN WINZE

LONGITUDINAL PROJECTION


Shaft No. 2
Shaft No 1
Adit
Open pit
'A' Level
200 Level
fault
300 Level
400 Level
600 Level
750 Level
900 Level
1050 Level
1200 Level
4000
3500
3000
BINGHAMTON SIDELINE
COPPER QUEEN SIDELINE
Adit No 2
Adit No 3
(This adit adorn of our sheet)
300 Level
Hoisting station
500 Level
fault
600 Level
700 Level
800 Level
900 Level
Drill hole

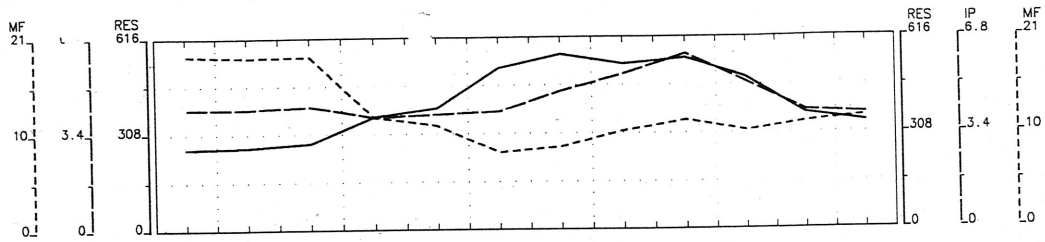

FRANCE
COPPER
RUIN
ENGLAND
TENNESSEE
BINGHAMTON
COPPER
BELGIUM
ILLINOUS
RUSSIA
BINGHAMTON
FRACTION
CHENANGO
SUSQUEHANNA
OTSELIC
GENEGANTSLEET
NOTE: PANEL IN THIS AREA NOT ON CLAIM CORNER
NOTE:
COORDINATES OF TRIANGULATION POINTS SHOWN HEREON ARE BASED ON STONE CORNERS N4 AND N5 OF THE TENNESSEE CLAIM WITH AN ASSUMED BEARING OF S 04°08 E AND A DISTANCE OF 1379.31 FT (CHANGED) COORDINATES OF OTHER CLAIM CORNERS ARE BASED ON ORIGINAL BEARINGS AND DISTANCES OF CLAIM MAPS AND ARE NOT IN TRIANGULATION GRID.
o - ORIGINAL CLAIM CORNER
Δ - TRIANGULATION POINT
W J CHEEK -- CIVIL ENGINEER
PRESCOTT, ARIZONA
NUCLEAR DYNAMICS, INC.
BINGHAMTON CLAIM GROUP
SEC. 31, T.13N., R.2E.
SEC. 6,7, T.12N., R.2E.
YAVAPAI COUNTY, ARIZONA
ENGINEERING DATA MAP
100 200 300 400
FEET



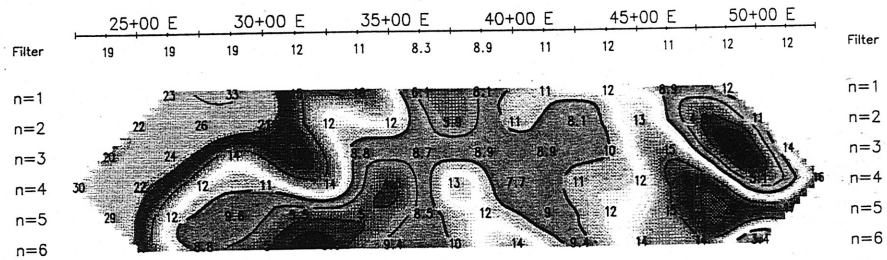
1000 2000 3000 4000
FEET
0 200 400 600 800 1000
METERS

Ground Magnetic Survey

Copper Mountain/Copper Queen Proje
Yavapai County, Arizona
ACNC

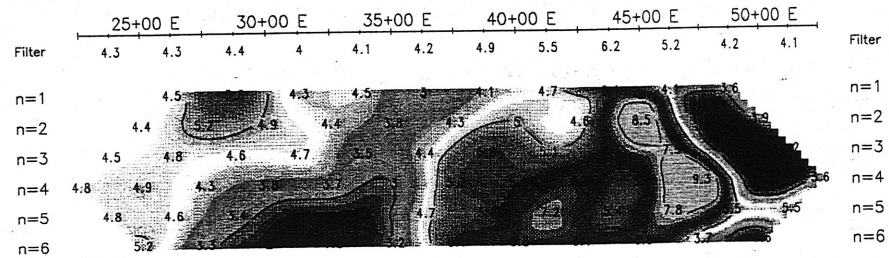


Metal Factor
(IP / Resistivity) *1000



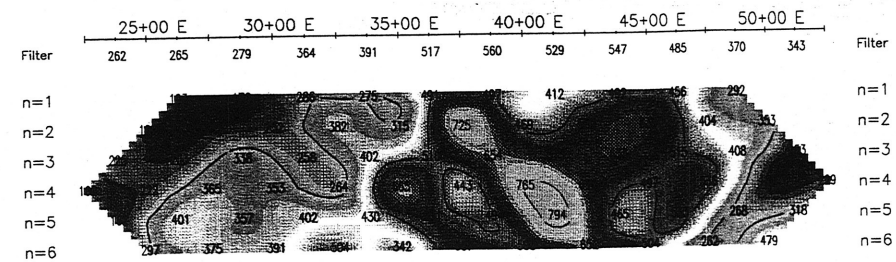
Metal Factor
(IP / Resistivity) *1000

IP
Chargeability, msecs



IP
Chargeability, msecs

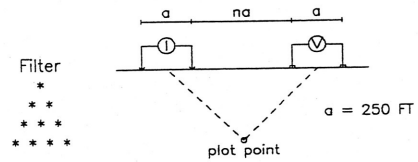
Resistivity
Ohm-meters



Resistivity
Ohm-meters

Line 11000 N

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250
(feet)

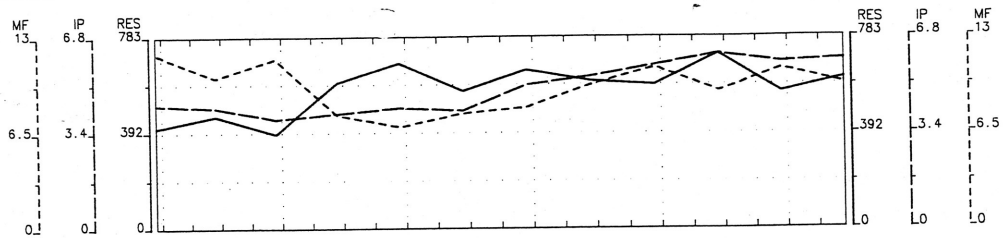
American Copper & Nickel Company

INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

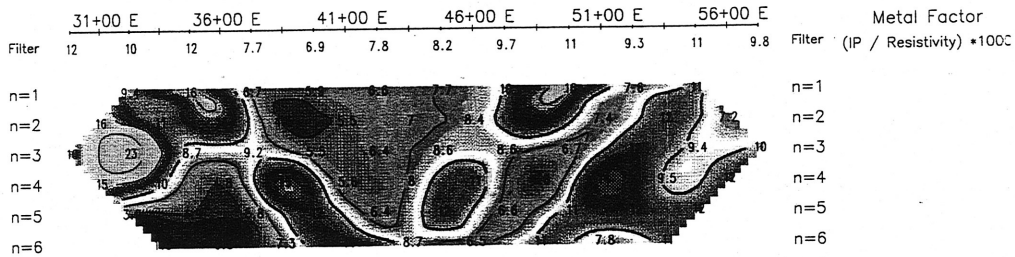
Date: 96/06/18
Interpretation: Garry J. Carlson

Gradient Geophysics

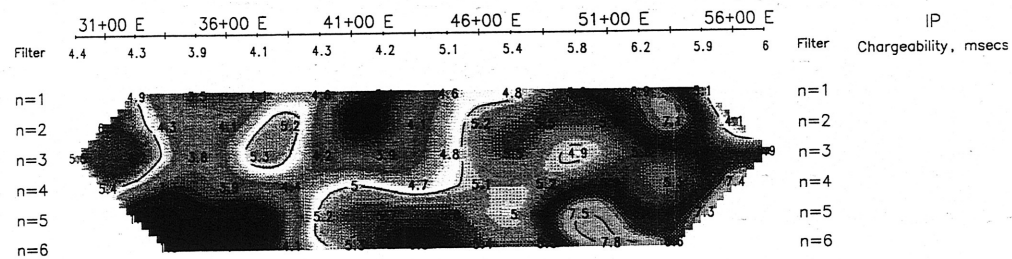
Geosoft Software for the Earth Sciences



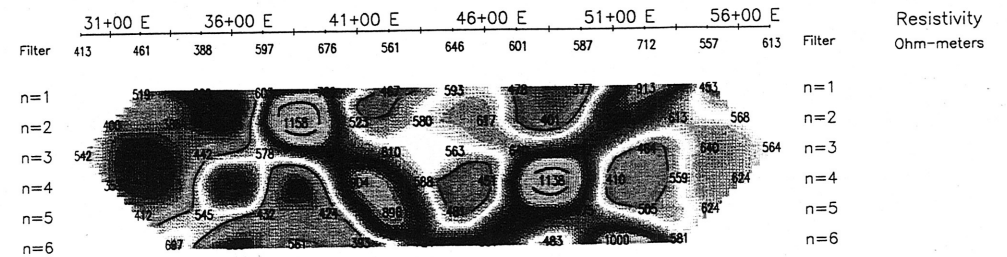
Metal Factor
(IP / Resistivity) *1000



IP
Chargeability, msecs

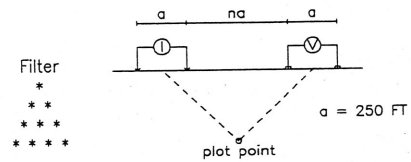


Resistivity
Ohm-meters



Line 10500 N

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250
(feet)

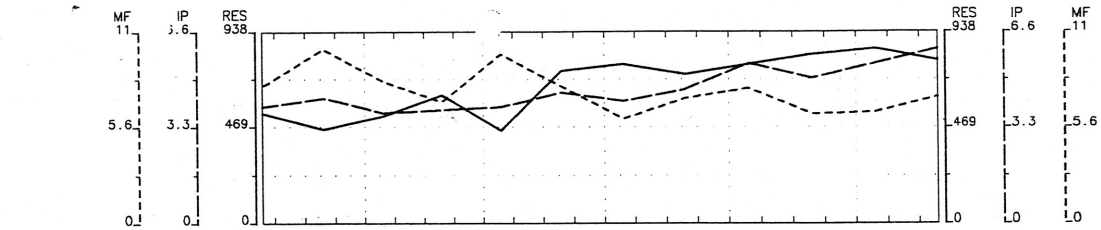
American Copper & Nickel Company

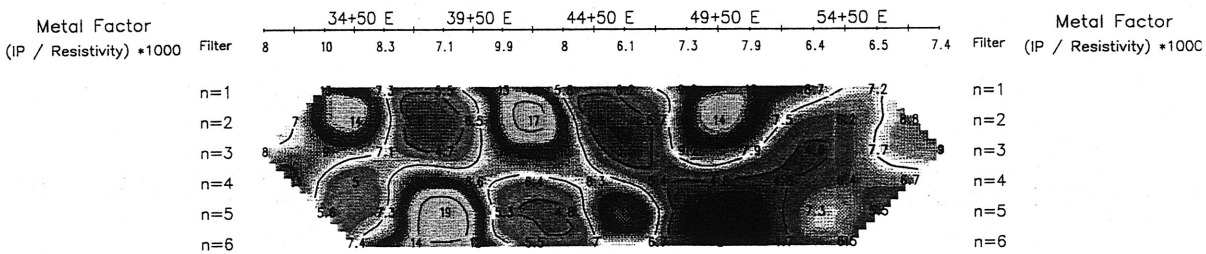
INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

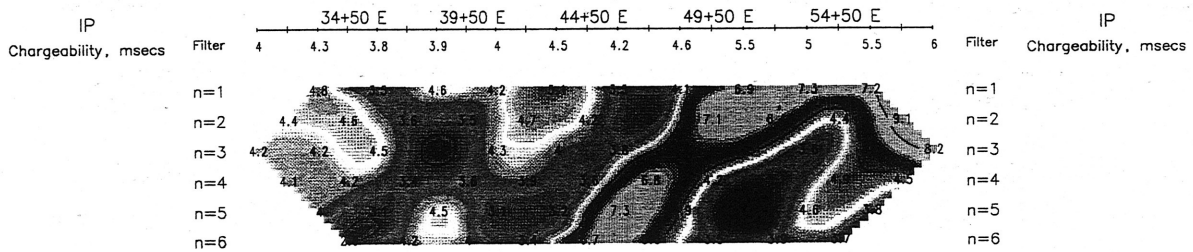
Date: 96/06/18
Interpretation: Garry J. Carlson

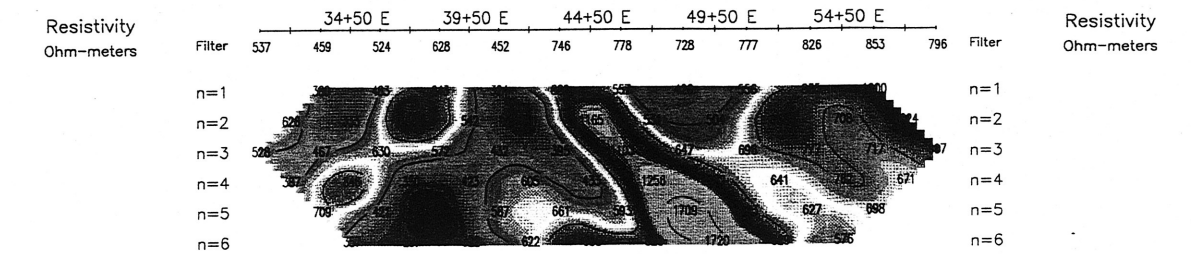
Gradient Geophysics

Geosoft Software for the Earth Sciences



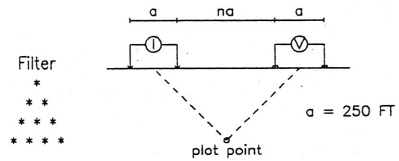






Line 10000 N

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250

(feet)

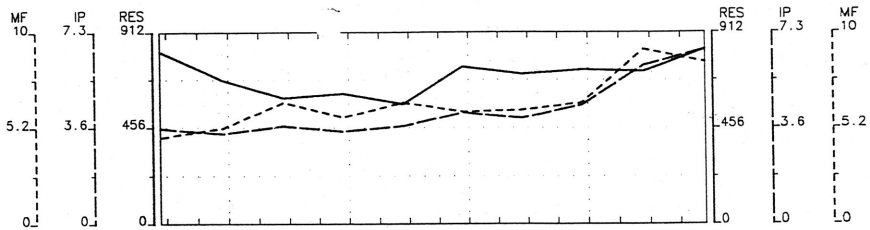
American Copper & Nickel Company

INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

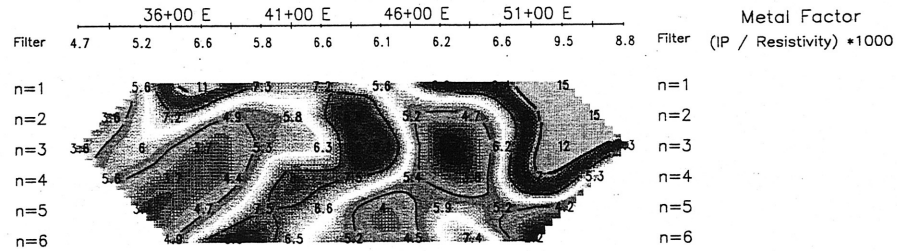
Date: 96/07/12
Interpretation: Garry J. Carlson

Gradient Geophysics

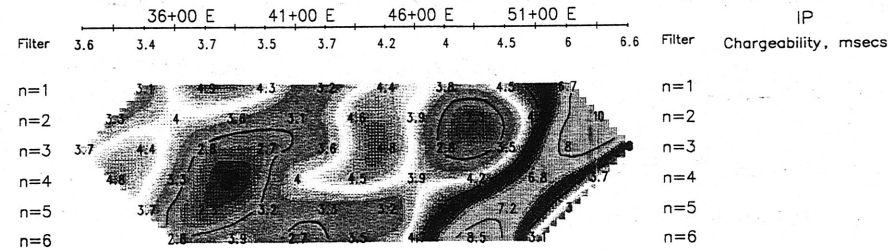
Geosoft Software for the Earth Sciences



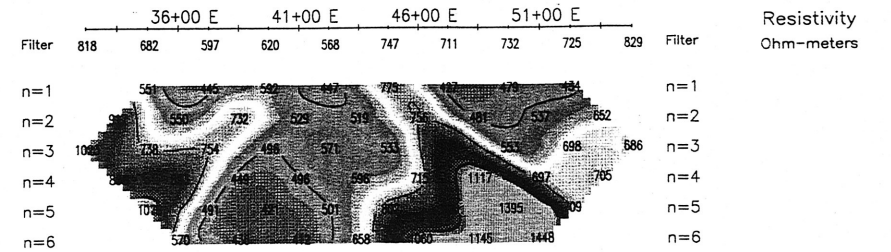
Metal Factor
(IP / Resistivity) *1000



IP
Chargeability, msecs

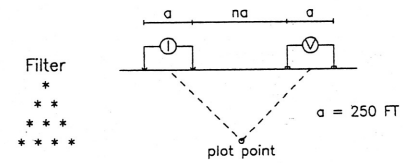


Resistivity
Ohm-meters



Line 9500 N

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250
(feet)

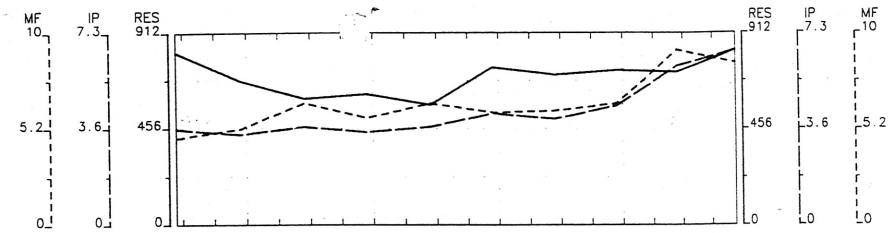
American Copper & Nickel Company

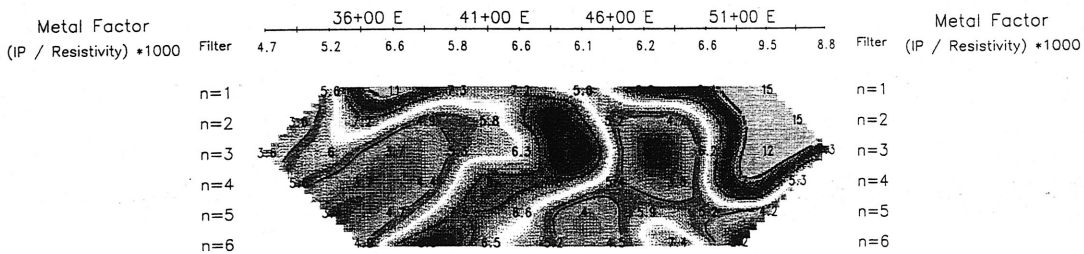
INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

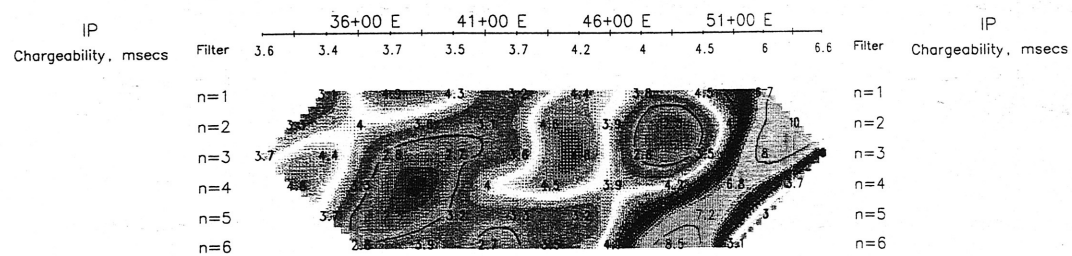
Date: 96/06/18
Interpretation: Garry J. Carlson

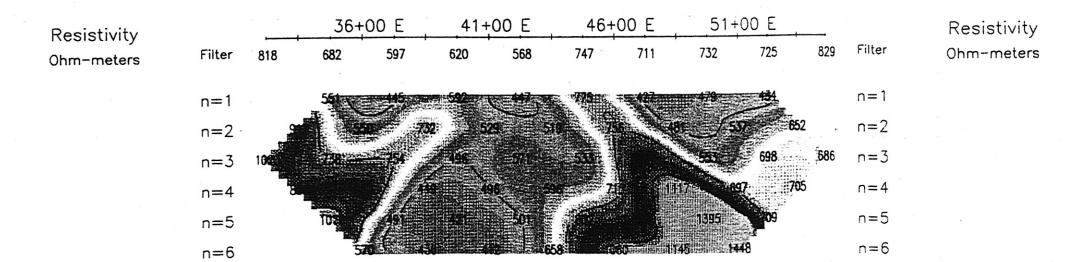
Gradient Geophysics

Geosoft Software for the Earth Sciences



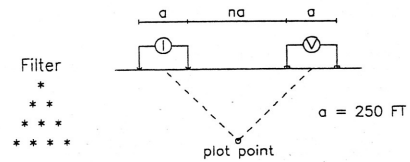






Line 9500 N

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, . .

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250

(feet)

American Copper & Nickel Company

INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

Date: 96/06/18
Interpretation: Garry J. Carlson

Gradient Geophysics

Geosoft Software for the Earth Sciences

ACNC DRILL LOG SHEET

HOLE NO. 83662

PROPERTY: Cu Mtn CLAIM: _____ LEVEL: Surface SEC. 7 TWP. 12N RNG. 2E COUNTY: Yavapai STATE: AZ CONTRACTOR: Bert Longyear CORE SIZE: NQ

AREA: _____

DRILL: Longyear 44

DATE STARTED: 9/6/96

DATE COMPLETED: 9/23/96

Copy from house 7/8/98

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N 10400.	E 4050.	4350.	075	-50	822

DC Oliver

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING POLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal		ASSAY Cu	Zn	Pb	Au	Ag
	0	3.0	3.0	0	OB							Regolith										
	3.0	17.1	14.1	14.1	Andes	bun gry	Oxn		M45		2	Andes fairly cons gry. plag phenocs										
												mod alt lim on frac + folin.										
												mod - strg oxn. in silt										
	17.1	24.8	7.7	7.7	Dac	bne	Oxn		M40	LXX	2	Dac - Rdet. lavgrd aplynic. mod oxn										
												lim vnlts, in fol. + frac mod MnOx										
												Tuff?										
	24.8	32.1	7.3	7.3	Rdet	gry.			M40		2	Rdet. frgl. aplynic. in dissem + vnlt	Tr									
												sulphide. fresh looking.										
	32.1	32.6	0.5	0.5	QV	wh						Qtz Vn w/ Rdet inclusions										
	32.6	34.0	1.6	1.6	Rdet	gry			M45			as 24.8 - 32.1	Tr									
	34.0	38.1	4.1	4.1	Rdet	bm	Oxn		M40	LXX	3	Rdet. frgl. strg oxn webby lim										
												vnlts. s MnOx										
	38.1	41.4	3.3	3.3	Rdet	gry bm	Oxn sem.		M45		1	Rdet aplynic frgl. wk oxn wk sem										
												blotchy oxn w/ in lim vnlts.										
	41.4	52.8	11.4	11.4	Rdet	bm	Oxn.		M45	LXX	3	Rdet. pervasive mod oxn. in silt										
												Mod - ab lim vnlts. w/ MnOx.										
	52.8	54.0	1.2	1.2	Gouge	rd	Oxn		M50	LXX	XX	Gouge + Chip of Rdet w/ lim. strg oxn										
	54.0	62.1	8.1	8.1	Rdet	bm	Oxn		M45	LXX	3	as 41.4 - 52.8										
	62.1	69.8	7.7	7.7	Rdet	wh	sem		M40			Rdet v strg ser alt v uniform										
												fa wk ser alt Rdet										
	69.8	92.8	13.0	13.0	Rdet	pk	silt sem Oxn		W40	LXX	2	Rdet. mod silt + sem, strg oxn. alt										

NOTES:

SHEET NO. 1 OF 10

HOLE NO. 93-657

ACNC DRILL LOG SHEET

AREA:
DRILL:
DATE STARTED:
DATE COMPLETED:

PROPERTY: CLAIM: LEVEL: SEC: TWP: RNG: COUNTY: CONTRACTOR:
STATE: CORE SIZE:

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N	E				

Dec

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING POLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal	Cc-Co	ASSAY Cu	Zn	Pb	Au	Ag
	76.5	86.5										lim vnlts. mod MnOx on gossanous						16	130	2	<.005	<.2
												qtz vnlts thin gouge zone @ 86.5										
												Pres on sulphide rich limit.										
	92.8	93.4	0.6	0.6	Gouge	vd	Ox.				XX	limonitic clay gouge.										
	93.4	97.7	4.3	4.3	Andi Dike	pk	Oxn			Qxx		Poss dike. non foliated. V stng oxn	tr									
												crs. nn qtz vnlts. nn dissem										
												oxidized py cubes.										
	97.7	99.3	1.6	1.6	Bslt?	vd	Oxn					Amygdaloidal. Bslt? V stng pervasive										
												lim altn. poss contact aureole w/										
												above dike? Arsenopole										
	99.3	109.8	10.5	10.5	Rdct	brn	silu oxn		W35	Lxx	3	Rdct. stng silu + oxy. ab lim vnlts	tr									
												prob frgl. nn oxidized py cubes - dissem.										
												gouge @ 102.5. nn MnOx										
	109.8	141.6	31.8	31.8	Rdct	gm brn	Oxn		W35	Qxx Xx	2	Rdct. plag phyric. blotchy zones of	tr									
												mod oxn. nn sem. mod - ab welding										
												lim vnlts. dissem py. nn silu										
	141.6	144.9	3.3	3.3	Rdct	rd	silu oxn		W35	Lxx	3	as 99.3 - 109.8	tr									
	144.9	159.4	14.5	14.5	Rdct	gm brn	Oxn		W35	Lxx		as 109.8 - 141.6	tr									
	159.4	165.0	5.6	5.6	Rdct	gy pk			W30	Lxx Qxx		Rdct aphanitic. frgl. nn qtz + nn	1/2									
												lim vnlts. dissem py. nn sem.										
Fx 546333	165.0	167.0	2.0	2.0	Rdct	ltgrn wh	sem		W40			Rdct, aphanitic. mod - stng ser altn.	1				1/2	9	80	12	<.005	<.2
												dissem (ab + blue CuSx), V lim vnlts.										
												py										

NOTES:

SHEET NO. 2 OF 10

HOLE NO. 83662

ACNC DRILL LOG SHEET

AREA:
DRILL:
DATE STARTED:
DATE COMPLETED:

PROPERTY: CLAIM: LEVEL: SEC: TWP: RNG: COUNTY: CONTRACTOR:
STATE: CORE SIZE:

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N	E				

DCO

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING FOLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal		ASSAY Cu	Zn	Pb	Au	Ag
	167.0	190.4	23.4	23.4	Rhyt	ay gry	Sern		W35	Qxx	1	Rhyt. aphanic. frgl. mod irreg qtz vnlts, s w/ py. disseminated py. wk - mod sern.	1/2	tr								
	190.4	198.2	7.8	7.8	Dac	sly gry	sern qtz		W35	Qxx Lxx	2	Dac - Rhyt. plag phyric. mod sern. silic. irreg lim vnlts. vnlts + dissem py.	tr									
	198.2	203.5	5.3	5.3	Dac	aux tan	Qtz sericite		W30	Lxx	3	Dac - Rhyt. tr sern, silic. ab lim vnlts Colr ∥ + x-c										
	203.5	207.7	4.2	4.2	Rhy	lt gry	silic sern		M30			Rhy silic. mod sern. v mi qtz eyes, s flattened. dissem py poss other Sx - v fgr. partly frgl.	tr									
	207.7	221.8	14.1	14.1	Rhy	tan-brn	Qtz silic		M35-40	Lxx		Rhy. partly frgl mi plag + qtz phyric. dissem py. gouge @ 220. Scattered zones w/ ab irreg lim vnlts.	1/2									
	221.8	227.6	5.8	5.8	Rhy	lt gry	sern silic		M40			as 203.5 - 207.5	tr									
	227.6	235.6	8.0	8.0	Rhy	tan-brn	Qtz silic sern		M40	Lxx		as 207.7 - 221.8 gouge @ 234.3	tr									
	235.6	247.7	12.1	12.1	Rhy	lt gry	sern + silic		M40	Lxx		As 203.5 - 207.5 w/ lesser silic + mod sern. mi scattered irreg lim vnlts.	1/2									
fx546334	247.7	253.0	5.3	5.3	Rhy	lt gry	silic sern		M40			Rhy frgl. mi qtz eyes. mod silic + sern. dissem sulphides. frags to 4 cm. mi Sx vnlts	tr	tr	tr			10	132	6	<.005	<.2
fx546336	253.0	258.0	5.0	5.0	Rhy	lt gry	"		"			as 247.7 - 253	tr	tr	tr			<1	84	8	<.005	<.2

NOTES: fx546 335 Std.

SHEET NO. 3 OF 10

HOLE NO. 83667 ACNC DRILL LOG SHEET

AREA:
DRILL:
DATE STARTED:
DATE COMPLETED:

PROPERTY: CLAIM: LEVEL: SEC: TWP: RNG: COUNTY: CONTRACTOR:
STATE: CORE SIZE:

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N	E				

De Olmer

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING POLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal	Cu_xS_y	ASSAY Cu	Zn	Pb	Au	Ag
fx546337	258.0	263.0	5.0	5.0	Rhy	lt gry	silic sam		M35			as 247.7-253	tr	tr	tr			10	120	8	<.005	<.2
fx546338	263.0	268.0	5.0	5.0	Rhy	"	"		"			as 247.7-253 mi blue Cu_xS_x	1/2	1/2	1/2		Tr	4	106	6	<.005	<.2
fx546339	268.0	272.8	4.8	4.8	Rhy	"	"		M40	Lxx		as 263-268 mi lim vnlts	1/2	1/2	1/2		tr	1	82	2	<.005	.2
	272.8	310.0	37.0	37.0	Rhy	"	"		W35	Lxx		as 247.7-253 mi lim vnlts	Tr									
	310.0	310.7	0.7	0.7	Goug	wh		45				Rhy qtz vn clay goug										
	310.7	311.8	1.1	1.1	QV	wh		55				Qtz vn, w/ opal + mi py vnlts.	1/2									
	311.8	336.4	24.6	24.6	Rhy	lt gry	sericite silic		M40	Qxx		Rhy. partly frgl. mi qtz bxes. mod-strg silic + sem. dissem py. high strain mi irreg qtz vnlts.	tr									
	336.4	345.6	9.2	7.6	Goug	red-wh	clay oxd					Gouge + chop Rhy lim clay, rd chert qtz vns. mod-strg silic dissem py	1/2									
	345.6	346.3	0.7	0.7	QV	wh						Qtz vn. mi ser. mi mlt py.	1/2									
	346.3	357.0	10.7	10.7	Rhy.	lt gry.	silic sam		M45			Rhy frgl later tect bx. plag + wkly qtz phyric. Mi hem (Mn?) pk silic. dissem py.	tr									
	357.0	361.3	4.3	4.3	Jspd	lt gry pk	silic		W55			Silica replaced rhy. ab pk hem Mn? silic. partly tect bx. tr dissem py. slcfd fault zone?	tr									
	361.3	403.0	41.7	41.7	Rhy	lt gry	silic sam		M55	Qxx		as 311.8-336.4	tr									
fx546340	403.0	405.7	2.7	2.7	Rhy	lt gry	silic		M40	Qxx		Rhy, qtz + plag phyric. v strg silic. lim sam. blk. wh + rd silica. mi ribbon qtz vnlts. dissem py + other Sx	1/2	tr	tr			65	100	8	<.005	<.2

NOTES:

SHEET NO. 4 OF 10

HOLE NO. 83652 ACNC DRILL LOG SHEET

AREA: _____ DRILL: _____ DATE STARTED: _____ DATE COMPLETED: _____

PROPERTY: _____ CLAIM: _____ LEVEL: _____ SEC: _____ TWP: _____ RNG: _____ COUNTY: _____ CONTRACTOR: _____ STATE: _____ CORE SIZE: _____

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N	E				

DEO

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING POLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal		ASSAY Cu	Zn	Pb	Au	Ag
	405.7	417.0	6.3	6.3	Rhy	lt gry	Sper silic		M55			as 311.8 - 336.4	tr									
	412.0	422.7	10.7	10.7	Bx	wh lt	silic		W55	Qxx		Rhy silicification bx. variable silic of	1/2	tr	tr							
	414.9 -	413.3				gy	sem					matrix + fragl (hyet?) rhy. v strong silic.						<1	154	2	<.005	<.2
												vn sem. disseam Sx (). Sample Ex546 341										
												m ab Sx ~ 1 1/2 - 2 % total Sx										
	422.7	452.0	29.3	29.3	Rhy	lt gy	sper silic		W50			as 311.8 - 336.4. gouge @ 439.5, 443.5, +	tr									
												445.										
	452.0	454.2	2.2	2.2	Hrfl	gy	silic tour		S50	Qxx		Rhy. Contact alter zone w/ thin lamp. dike.	1/2									
												silic tourmaline? px. wobbly fgr qtz										
												vn lts. disseam py.										
	454.2	456.5	2.3	2.3	Lamp	dk gy		50				Lam. morphosure. fg! mi sandstone + px										
												phenos. vn/sm. granitic xenoliths.										
	456.5	457.5	1.0	1.0	Hrfl	gy	silic tour		S55	Qxx		as 452 - 454.2	tr									
	457.5	468.5	11.0	11.0	Rhy	lt gry	sper silic		M50			as 311.8 - 336.4										
x546342	468.5	473.9	5.4	5.4	Rhy	lt gry	"		M50			Rhy. qtz + plag phyric. frgl. mod silic +	1/2		tr			5	146	28	<.005	.2
												sech disseam + vn/lt Sx										
Ex546 343	473.9	477.4	3.5	3.5	Rhy	lt gry	silic sem		M55	Sxx		Rhy as 468.5 - 473.5 w/ m ab Sx	1/2	1/2	1	1		42	1735	1155	<.005	1.6
												vn/lts ~ folin ll										
Ex546 344	477.4	483.5	6.1	6.1	Rhy	lt gry-gy	silic sem.		M45			Rhy as 468.5 - 473.5. w/ mi silic	1/2		tr	tr		9	346	48	<.005	.2
												bx zones.										
Ex546 345	483.5	489.7	6.2	6.2	Rhy	lt gy	silic sem.		M55-70	Q50		Rhy as 468.5 - 473.5. highly tectonized. mi	tr		tr			12	366	32	.010	.2
												blk silic.										

NOTES:

SHEET NO. 5 OF 10

HOLE NO. B3662 ACNC DRILL LOG SHEET

AREA:
DRILL:
DATE STARTED:
DATE COMPLETED:

PROPERTY: CLAIM: LEVEL: SEC: TWP: RNG: COUNTY: CONTRACTOR:
STATE: CORE SIZE:

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N	E				Deg

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING POLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal		ASSAY Cu	Zn	Pb	Au	Ag
[illegible]	489.7	492.2	2.5	2.5	Myl	lt gray pk			S50	Q60	3	Mylonite. Qtz + plag phyric Rhy.	1	1/2				10	276	24	.015	.2
												w/ Sx vnlts. Mod qtz plag vnlts										
[illegible]	492.7	494.5	2.3	2.3	Bx	lt gy	silic					Rhy, silic bx. Vnlt + clotty Sx.						81	3010	310	.205	2.4
												Clotty Sx in interstices of bx.	1	tr	1							
[illegible]	494.5	499.6	5.1	5.1	Rhy	lt gray	silic		S55	Q55		as 468.5 - 473.5. highly tectonized.	1/2	tr	1/2			11	268	16	.020	.4
												deformed Sx vnlts. mi tour. Inter qtz fold										
												vnlts. mi barite?										
	499.6	502.1	2.5	2.5	Rhy	lt gray	silic sam		M60	Q55		Rhy qtz + plag phyric w/ mod silic +	tr									
												sam. tr dissem py.										
	502.1	508.4	6.3	6.3	Gouge	lt gray			M60		xx	Rhy as above, Gouge + Clay										
	508.4	529.2	20.8	20.8	Rhy	lt gray	silic sam		M55	f.55		Rhy wkly plag phyric. Partly fol.										
												late wobbly dk qtz vnlts. Mod silic										
												+ Sam. 1, 2 cm th, cvs pk - flesh color										
												fold vnlt.										
	529.2	536.2	7.0	7.0	Rhy	lt gray pk	silic		M60			Rhy, qtz phyric. mod - strg silic.										
												S silic hematitic. Tectonized										
	536.2	546.8	10.6	10.6	Rhy	lt gray	sam silic fold		M60			Rhy. silic sam secondary fold growth.	1/2									
												Bleachy areas of pk fold. mi py										
												vnlted										
	546.8	548.1	1.3	1.3	Gouge	gy	clay					Rhy? gouge strg clay development										
	548.1	551.0	2.9	2.9	Rhy	gy	silic		W55			Strg sicfd rhy.										
	551.0	551.4	0.4	0.4	Gouge	wh	clay					as 546.8 - 548.1										

NOTES:

SHEET NO. 6 OF 10

HOLE NO. 83662 ACNC DRILL LOG SHEET

AREA: _____ DRILL: _____ DATE STARTED: _____ DATE COMPLETED: _____

PROPERTY: _____ CLAIM: _____ LEVEL: _____ SEC: _____ TWP: _____ RNG: _____ COUNTY: _____ CONTRACTOR: _____ STATE: _____ CORE SIZE: _____

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N	E				

DCD

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING POLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal		ASSAY Cu	Zn	Pb	Au	Ag
	551.4	556.8	5.4	5.4	Rhy	buff	Silica		M55	Qtz xx		Rhy. qtz phyric. v stky silica. s bar silic. irreg / wobbly qtz tour? vnlts	tr									
	556.8	568.3	11.5	11.5	Rhy	buff	Silica sern		M50	Qtz xx f	3	Rhy. wk plag + qtz phyric. mod silica + sern. vnlts of qtz. plag. wobbly qtz px vnlts	tr									
	568.3	569.0	0.7	0.5	Gouge	blk.					xx	Qtz rhy. Hrfl chop.										
Sn 546349	569.0	575.0	6.0	6.0	Hrfl	lt gy	Hrfl qtz		M60	Qtz xx		Hrfls rhy. v ab wobbly qtz px on vnlts. mod. sm(1mm) dose colored garnets. Still recognizable as rhy. blotches + vnlt py	1/2					3	206	4	.005	<.2
Sn 546350	575.0	582.8	7.8	7.8	Hrfl	gm blk	Qtz qtz gar		W60	Qtz xx		Hrfl. Not recognizable as rhy. v ab px qtz vnlts w/ mt gar. vnlt + blotchy py High δ vnlt network. non mt	2 1/2					9	172	12	<.005	<.2
Sn 546351	582.8	588.7	5.9	5.9	Hrfl	lt gy	Qtz gar		W55	Qtz xx		Hrfl. parts recognizable as rhy, parts not. ab high δ px qtz sx vnlt network. clotty + vnlt py. non mt. migar	2					2	166	10	<.005	<.2
Sn 546352	588.7	598.7	10.0	10.0	Hrfl	lt gy	Qtz		W60	Qtz xx		as 569.0 - 575.0	2					5	156	6	.010	.2
	598.7	610.2	11.5	11.5	Rhy	buff	Silica sern		W50	Qtz xxx		as 556.8 - 568.3	tr									
	610.2	619.4	9.2	9.2	Rhy	lt bm	Silica		M50	Qtz xx		as 551.4 - 556.8	tr									
	619.4	620.5	1.1	1.1	Hrfl	dk gm	Qtz clk		W50			as 582.8 - 588.7	tr									
	620.5	621.3	0.8	0.8	Gouge	bm					xx	lamprophyre + Hrfl rhy mix										
	621.3	621.7	0.4	0.4	Lamp	dk bm						Lamp. px phenos sanidine phenos qtz xenoliths. f gr mtrx										

NOTES:

SHEET NO. 7 OF 10

HOLE NO. 83662 ACNC DRILL LOG SHEET

AREA: _____
DRILL: _____
DATE STARTED: _____
DATE COMPLETED: _____

PROPERTY: _____ CLAIM: _____ LEVEL: _____ SEC: _____ TWP: _____ RNG: _____ COUNTY: _____ CONTRACTOR: _____

STATE: _____ CORE SIZE: _____

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N	E				

Dod

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING POLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal		ASSAY Cu	Zn	Pb	Au	Ag
	621.7	622.1	0.4	0.4	Gouge	gy	clay				xx	Clay rich gouge										
	622.1	623.5	1.4	1.4	Lamp	dk gm						as J 621.3 - 621.7										
	623.5	630.3	6.8	6.8	Gouge	gy	clay		M50		xx	Clay + gouge. Dominantly Hrfl rhy.										
	630.3	641.6	11.3	11.3	Lamp							Variably varvolitic Lamp. sm sil										
												px, mt, phenos. feld, feldspathoid										
												varioles. mod mtc 636 - 641.										
												qtz xenoliths.										
	641.6	673.1	31.5	31.5	Hrfl	gy	py gar adularia		M45	R55		Hrfl. mod stg alt of rhy. mostly as	1/2			tr						
												582.8 - 588.7. 660.8 adularia vnlt w/										
												qtz. 668 opalescent wh to pk to olk										
												qtz vnlt. mi ser mi epid.										
	673.1	674.6	1.5	1.5	Gouge	gy gm	clay				xx	Gouge Hrfl + Lamp.										
	674.6	678.6	4.0	4.0	Hrfl	gy	tr epid		M50			As 641.6 - 673.1										
	678.6	681.6	3.0	3.0	Gouge	gy bn	clay				xx	Gouge Hrfl + Lamp										
	681.6	684.5	2.9	2.9	Hrfl	gy			W50	R40	4	Hrfl, spotted. qtz adularia vnlt.										
	684.5	688.5	4.0	4.0	Rhy?	ok	silin oxin		W50	LXX		Rhy? Dac? stg Siln. mod - stg oxn. weldy										
												lim vnlts. cubic lim pits.										
	688.5	690.7	2.2	2.2	Gouge	rd	clay					Oxidized clay + gouge.										
	690.7	696.9	6.2	6.2	Dac	ok	oxn		W45	LXX		Dac. Siln. w/ weldy lim vnlts. mi										
												qtz vnlts. cubic lim pits.										
Fx546353	696.9	701.7	4.8	4.8	Dac	lt gm	Sapin Silin		W50	RXX		Dac. wk plag phyric. fairly massive +						61	270	6	<.005	.2
												uniform. Intrg qtz vnlts. py w/ vnlts +										

NOTES:

SHEET NO. 8 OF 10

HOLE NO. B3662 ACNC DRILL LOG SHEET

AREA: _____ DRILL: _____ DATE STARTED: _____ DATE COMPLETED: _____

PROPERTY: _____ CLAIM: _____ LEVEL: _____ SEC: _____ TWP: _____ RNG: _____ COUNTY: _____ CONTRACTOR: _____ STATE: _____ CORE SIZE: _____

COLLAR COORDINATES		COLLAR ELEV	AZIMUTH	INCLN.	TOTAL DEPTH
N	E				

Dco

SAMPLE NO	FOOTAGE FROM	FOOTAGE TO	FT	REC	ROCK TYPE	COLOR	ALTER	LAYERING CA	LAYERING POLN	LAYERING VEIN	B/FT	DESCRIPTION	% ESTIMATES Py	Cpy	Sph	Gal		ASSAY Cu	Zn	Pb	Au	Ag
												in clots w/s lg xls. mi lim along s vnlts. mod silic serc.	2		tr							
fx546354	701.7	705.7	4.0	4.0	Dac	lt gn	silic serc		W40	Q60 Lxx	2	as 696.9 - 701.7	1/2					19	144	12	<.005	<.2
546356	705.7	710.5	4.8	4.8	Dac	"	"		W45	Q65 Lxx		as 696.9 - 701.7	2		tr			51	240	16	<.005	.2
fx546357	710.5	710.9	0.4	0.4	QV	wh		65				Qtz vn w/ chlr + s Dac	tr					56	106	8	<.005	<.2
357	710.9	715.3	4.4	4.4	Dac	lt gn	silic serc		W40	Q70 Lxx		as 696.9 - 701.7	1		1/2							
fx546358	715.3	720.0	4.7	4.7	Dac	"	"		W10-40	Q40 Lxx		as 696.9 - 701.7	2		1/2		1/2	aspy 121	158	16	<.005	<.2
fx546359	720.0	724.8	4.8	4.8	Dac	"	"		W60-40	Q40	3	as 696.9 - 701.7 mi honey sph.	4	tr	1		tr	aspy 862	252	82	<.005	1.0
fx546360	724.8	726.8	2.0	2.0	Dac	"	"		W40	Q40		as 696.9 - 701.7	1		tr		tr	aspy 21	86	4	<.005	<.2
fx546361	726.8	731.7	4.9	4.9	Dac	gun	silic		W40	Qxx		Dac. fairly fresh. mi silic. mod plag phyric. Clotty + vnlt sulphide. mod irreg qtz vnlts.	1 1/2		1/2		tr	aspy 35	74	6	<.005	<.2
fx546362	731.7	734.0	2.3	2.3	Dac	gun	silic		W50	Qxx		as 726.8 - 731.7 w/ mi ab silic	5		tr		tr	aspy 130	70	14	<.005	<.2
	734.0	748.5	14.5	14.5	Dac	gun	silic serc.		W50	Qxx		Dac. fairly fres. wk silic + serc. mod irreg qtz vnlts. clotty + vnlt sulphide. Uniform.	1/2									
fx546363	748.5	750.4	1.9	1.9	Dac	lt gn	silic serc.		W45	Q45		Dac. mod silic + serc. clotty + vnlt	3					136	230	114	<.005	.2
												py. mi qtz vnlt. mi plag phyric.										
	750.4	751.2	0.8	0.8	QV	wh		65				Qtz vn, w/ serc + flesh colored spots										
363	751.2	756.5	5.3	5.3	Dac	lt gn	silic serc		W60	Q60		as 748.5 - 750.4	3									
fx546364	756.5	762.4	5.9	5.9	Dac	lt gn	silic		W60	Qxx		Dac. wkly plag phyric. mod qtz vnlts.	4		tr	tr		290	62	30	<.005	.4
												mod silic. clotty + vnlt sulphide.										
	762.4	776.0	13.6	13.6	Andes	lt gn			W45			Andes. uniform, massive, mi amygs, wl	1 1/2									

NOTES: fx 546355 STD

SHEET NO. 9 OF 10

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn	XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %
83662	731.7	734.0	2.3	FX546362	<.005	<.2	22	<2	130	<1	<1	14	2	70	11.67	0.25	<.01	6.9
83662	748.5	756.5	8.0	FX546363	<.005	0.2	64	<2	136	<1	<1	114	12	230	11.87	0.36	<.01	7.46
83662	756.5	762.4	5.9	FX546364	<.005	0.4	48	4	290	<1	1	30	2	62	9.2	0.43	<.01	8.01
83661	192.5	199.6	7.1	FX546365	<.005	<.2	26	<2	116	<1	<1	2	<2	112	15.2	2.56	<.01	10.74
83661	199.6	205.7	6.1	FX546366	<.005	<.2	14	<2	49	<1	<1	<2	<2	152	16.19	1.34	<.01	12.77
83661	205.7	209.7	4.0	FX546367	<.005	<.2	8	<2	12	<1	<1	<2	<2	66	7.37	3.46	<.01	5.04
83661	209.7	215.6	5.9	FX546368	<.005	<.2	10	<2	5	<1	<1	<2	<2	50	7.77	4.27	<.01	3.88
83661	264.6	269.8	5.2	FX546369	0.355	2.8	3420	12	417	<1	7	402	52	396	10.99	0.88	<.01	10.4
83661	271.5	277.2	5.7	FX546370	0.055	0.6	334	<2	249	<1	5	102	24	254	12.61	0.7	<.01	9.7
83661	278.3	283.0	4.7	FX546371	0.010	<.2	22	<2	5	<1	2	10	<2	94	12.05	0.33	<.01	6.65
83661	283.0	288.6	5.6	FX546372	<.005	<.2	22	<2	7	<1	2	10	<2	108	12.46	0.25	<.01	8.61
83661	288.6	291.7	3.1	FX546373	<.005	<.2	18	<2	6	<1	3	2	<2	96	16.94	0.33	<.01	8.69
83661	292.5	298.7	6.2	FX546374	0.005	0.6	176	<2	608	<1	<1	40	20	144	14.67	0.29	<.01	13.17
83661	STD	STD	STD	FX546375	0.005	<.2	16	<2	3	<1	4	<2	<2	50	10.88	0.77	<.01	2.31
83661	298.7	306.1	7.4	FX546376	<.005	<.2	34	<2	7	<1	4	8	<2	102	12.9	0.25	<.01	7.6
83661	306.1	311.3	5.2	FX546377	0.010	0.2	60	<2	88	<1	2	16	<2	114	14.5	0.28	<.01	6.62
83661	311.3	318.2	6.9	FX546378	0.015	0.2	142	<2	63	<1	4	16	8	172	12.98	0.32	<.01	6.97
83661	318.2	323.7	5.5	FX546379	0.015	0.8	546	2	1565	<1	<1	40	22	316	11.48	0.36	<.01	17.13
83661	323.7	330.0	6.3	FX546380	<.005	<.2	56	<2	102	<1	1	2	<2	136	12.8	0.86	<.01	12.61
83661	330.0	336.4	6.4	FX546381	<.005	<1	90	<10	60	<10	<5	15	10	150	10.8	8.04	<.01	16.89
83661	336.4	340.5	4.1	FX546382	<.005	<1	150	<10	250	<10	<5	25	<10	130	11.29	8.56	<.01	12.01
83661	340.5	346.6	6.1	FX546383	0.045	<1	590	<10	295	<10	<5	35	20	410	12.46	2.24	<.01	3.96
83661	346.6	348.3	1.7	FX546384	0.920	1	47300	<10	1595	<10	<5	275	90	5050	10.39	10.47	0.01	11.66
83661	348.3	352.8	4.5	FX546385	0.170	1	21400	<10	655	<10	5	160	30	870	11.55	0.41	<.01	14.25
83661	352.8	354.2	1.4	FX546386	0.830	5	>50000	60	1065	<10	5	1545	170	675	7.61	0.33	<.01	35.58
83661	354.2	356.5	2.3	FX546387	0.040	<1	2750	<10	485	<10	<5	35	10	445	11.25	0.3	<.01	11.54
83661	356.5	358.4	1.9	FX546388	0.530	1	>50000	10	80	<10	<5	255	70	260	10.25	0.47	<.01	21.45
83661	358.4	360.5	2.1	FX546389	0.155	0.8	>10000	6	60	<1	4	72	8	278	11.28	0.28	<.01	12.59
83661	415.2	422.0	6.8	FX546390	0.010	<.2	324	<2	226	<1	<1	12	6	180	11.01	0.29	<.01	10.76
83661	448.4	453.0	4.6	FX546391	0.020	1.2	204	<2	515	<1	<1	14	66	160	7.66	0.79	<.01	13.85
83661	499.2	504.0	4.8	FX546392	0.005	<.2	18	<2	5	<1	<1	2	<2	132	12.24	0.16	<.01	7.11
83661	504.0	509.9	5.9	FX546393	0.005	<.2	12	<2	11	<1	<1	<2	<2	132	11.43	0.19	<.01	7.26
83661	517.7	520.3	2.6	FX546394	0.010	0.2	108	<2	50	1	3	16	2	474	13.52	1.59	<.01	3.02
83661	STD	STD	STD	FX546395	<.005	<.2	6	6	93	<1	<1	<2	<2	84	11.85	0.6	<.01	5.97
83661	520.3	523.8	3.5	FX546396	<.005	<.2	22	<2	34	<1	1	10	4	312	8.35	0.46	<.01	6.74
83661	539.7	541.7	2.0	FX546397	<.005	0.2	30	<2	82	<1	1	4	8	762	13.05	0.32	<.01	5.8
83661	541.7	546.8	5.1	FX546398	<.005	<.2	10	<2	6	<1	<1	2	<2	168	12.93	0.31	<.01	5.83
83661	546.8	549.6	2.8	FX546399	<.005	<.2	8	<2	5	<1	<1	2	<2	80	7.79	1.07	<.01	3.48
83661	549.6	555.3	5.7	FX546400	<.005	<.2	12	<2	8	<1	<1	4	<2	106	14.14	0.25	<.01	6.59
83661	555.3	560.6	5.3	FX546401	<.005	<.2	16	<2	34	<1	<1	4	2	92	10.23	0.16	<.01	7.65
83661	560.6	563.4	2.8	FX546402	<.005	<.2	24	<2	52	<1	3	8	<2	110	14.73	0.31	<.01	8.43
83661	583.5	587.5	4.0	FX546403	<.005	<.2	30	<2	32	<1	<1	2	<2	260	14.16	0.25	<.01	11.78

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn	XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %
83660	337.7	342.5	4.8	FX546320	0.005	0.2	8	<2	228	1	<1	2	<2	84	14.49	8.94	<.01	9.62
83660	431.0	435.5	4.5	FX546321	<.005	<.2	44	<2	79	<1	1	2	2	156	16.03	4.28	<.01	11.47
83660	474.5	475.4	0.9	FX546322	<.005	<.2	10	<2	4	<1	2	2	<2	72	12.3	0.37	<.01	5.96
83660	493.4	495.7	2.3	FX546323	<.005	<.2	8	<2	10	<1	2	<2	<2	80	10.21	2.05	<.01	5.92
83660	495.7	501.0	5.3	FX546324	<.005	0.2	16	<2	76	<1	2	6	<2	94	11.08	2.32	<.01	6.69
83660	650.0	658.4	8.4	FX546325	0.005	<.2	20	<2	12	<1	1	8	<2	76	13.76	2.61	<.01	4.65
83660	685.7	690.7	5.0	FX546326	<.005	<.2	2	<2	10	<1	1	8	<2	136	13.06	0.71	<.01	6.31
83660	690.7	696.7	6.0	FX546327	<.005	<.2	18	<2	8	<1	1	2	<2	86	12.4	0.84	<.01	5.42
83660	696.7	699.4	2.7	FX546328	<.005	<.2	4	<2	6	<1	1	2	<2	84	11.28	1.93	<.01	5.5
83660	699.4	701.6	2.2	FX546329	<.005	<.2	2	<2	8	<1	2	<2	<2	118	12.77	1.02	<.01	6.65
83660	701.6	706.2	4.6	FX546330	<.005	<.2	10	<2	16	<1	1	8	<2	102	11.65	0.97	<.01	6.06
83660	632.0	637.4	5.4	FX546331	<.005	<.2	20	<2	9	<1	2	6	2	176	11.61	1.11	<.01	6.83
83662	76.5	86.5	10.0	FX546332	<.005	<.2	140	<2	16	<1	2	2	2	130	12.58	0.17	<.01	4.02
83662	165.0	167.0	2.0	FX546333	<.005	<.2	6	<2	9	<1	<1	12	2	80	11.93	3.86	<.01	4.93
83662	247.7	253.0	5.3	FX546334	<.005	<.2	2	2	10	<1	<1	6	<2	132	12.2	4.34	<.01	6.48
83662	STD	STD	STD	FX546335	<.005	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
83662	253.0	258.0	5.0	FX546336	<.005	<.2	4	<2	<1	<1	1	8	<2	84	12.27	4.7	<.01	5.28
83662	258.0	263.0	5.0	FX546337	<.005	<.2	2	2	10	<1	<1	8	2	120	11.61	4.69	<.01	6.17
83662	263.0	268.0	5.0	FX546338	<.005	<.2	4	<2	4	<1	<1	6	<2	106	12.32	4.17	<.01	5.65
83662	268.0	272.8	4.8	FX546339	<.005	0.2	4	2	1	<1	1	2	<2	82	12.85	3.35	<.01	4.88
83662	403.0	405.7	2.7	FX546340	<.005	<.2	22	2	65	<1	<1	8	2	100	10.26	3.43	0.01	5.34
83662	414.9	418.8	3.9	FX546341	<.005	<.2	<2	<2	<1	<1	<1	2	<2	154	14.16	0.38	<.01	6.53
83662	468.5	473.9	5.4	FX546342	<.005	0.2	20	<2	5	<1	3	28	2	146	10.21	1.97	<.01	3.37
83662	473.9	477.4	3.5	FX546343	<.005	1.6	28	<2	42	3	1	1155	8	1735	8.31	2.8	<.01	4.73
83662	477.4	483.5	6.1	FX546344	<.005	0.2	6	2	9	<1	1	48	2	346	10.38	1.37	<.01	5.3
83662	483.5	489.7	6.2	FX546345	0.010	0.2	6	2	12	<1	5	32	2	366	8.58	2.38	<.01	4.45
83662	489.7	492.2	2.5	FX546346	0.015	0.2	10	2	10	<1	3	24	2	276	12.44	4.5	<.01	5.11
83662	492.2	494.5	2.3	FX546347	0.205	2.4	28	2	81	4	2	310	14	3010	8.55	2.26	<.01	4.18
83662	494.5	499.6	5.1	FX546348	0.020	0.4	8	<2	11	<1	2	16	2	268	10.13	2.1	<.01	4.22
83662	569.0	575.0	6.0	FX546349	0.005	<.2	20	<2	3	<1	<1	4	<2	206	12.34	0.49	<.01	5.75
83662	575.0	582.8	7.8	FX546350	<.005	<.2	42	<2	9	<1	<1	12	2	172	11.81	0.76	<.01	5.45
83662	582.8	588.7	5.9	FX546351	<.005	<.2	30	2	2	<1	<1	10	<2	166	11.99	0.4	<.01	6.21
83662	588.7	598.7	10.0	FX546352	0.010	0.2	20	<2	5	<1	<1	6	<2	156	12.2	0.65	<.01	5.96
83662	696.9	701.7	4.8	FX546353	<.005	0.2	16	2	61	<1	<1	6	6	270	12.8	0.26	<.01	4.9
83662	701.7	705.7	4.0	FX546354	<.005	<.2	2	<2	19	<1	<1	12	2	144	12.09	0.78	<.01	3.88
83662	STD	STD	STD	FX546355	<.005	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
83662	705.7	710.5	4.8	FX546356	<.005	0.2	20	<2	51	<1	<1	16	4	240	10.61	0.47	<.01	4.86
83662	710.5	715.3	4.8	FX546357	<.005	<.2	14	<2	56	<1	<1	8	2	106	9.85	0.24	<.01	3.8
83662	715.3	720.0	4.7	FX546358	<.005	<.2	30	<2	121	<1	<1	16	4	158	10.47	0.18	<.01	4.27
83662	720.0	724.8	4.8	FX546359	<.005	1	466	2	862	1	<1	82	16	252	9.21	0.47	<.01	6.97
83662	724.8	726.8	2.0	FX546360	<.005	<.2	2	<2	21	<1	<1	4	<2	86	13.2	0.07	<.01	4
83662	726.8	731.7	4.9	FX546361	<.005	<.2	34	2	35	<1	<1	6	2	74	9.13	1.02	<.01	5.34

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn	XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %
83660	337.7	342.5	4.8	FX546320	0.005	0.2	8	<2	228	1	<1	2	<2	84	14.49	8.94	<.01	9.62
83660	431.0	435.5	4.5	FX546321	<.005	<.2	44	<2	79	<1	1	2	2	156	16.03	4.28	<.01	11.47
83660	474.5	475.4	0.9	FX546322	<.005	<.2	10	<2	4	<1	2	2	<2	72	12.3	0.37	<.01	5.96
83660	493.4	495.7	2.3	FX546323	<.005	<.2	8	<2	10	<1	2	<2	<2	80	10.21	2.05	<.01	5.92
83660	495.7	501.0	5.3	FX546324	<.005	0.2	16	<2	76	<1	2	6	<2	94	11.08	2.32	<.01	6.69
83660	650.0	658.4	8.4	FX546325	0.005	<.2	20	<2	12	<1	1	8	<2	76	13.76	2.61	<.01	4.65
83660	685.7	690.7	5.0	FX546326	<.005	<.2	2	<2	10	<1	1	8	<2	136	13.06	0.71	<.01	6.31
83660	690.7	696.7	6.0	FX546327	<.005	<.2	18	<2	8	<1	1	2	<2	86	12.4	0.84	<.01	5.42
83660	696.7	699.4	2.7	FX546328	<.005	<.2	4	<2	6	<1	1	2	<2	84	11.28	1.93	<.01	5.5
83660	699.4	701.6	2.2	FX546329	<.005	<.2	2	<2	8	<1	2	<2	<2	118	12.77	1.02	<.01	6.65
83660	701.6	706.2	4.6	FX546330	<.005	<.2	10	<2	16	<1	1	8	<2	102	11.65	0.97	<.01	6.06
83660	632.0	637.4	5.4	FX546331	<.005	<.2	20	<2	9	<1	2	6	2	176	11.61	1.11	<.01	6.83
83662	76.5	86.5	10.0	FX546332	<.005	<.2	140	<2	16	<1	2	2	2	130	12.58	0.17	<.01	4.02
83662	165.0	167.0	2.0	FX546333	<.005	<.2	6	<2	9	<1	<1	12	2	80	11.93	3.86	<.01	4.93
83662	247.7	253.0	5.3	FX546334	<.005	<.2	2	2	10	<1	<1	6	<2	132	12.2	4.34	<.01	6.48
83662	STD	STD	STD	FX546335	<.005	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
83662	253.0	258.0	5.0	FX546336	<.005	<.2	4	<2	<1	<1	1	8	<2	84	12.27	4.7	<.01	5.28
83662	258.0	263.0	5.0	FX546337	<.005	<.2	2	2	10	<1	<1	8	2	120	11.61	4.69	<.01	6.17
83662	263.0	268.0	5.0	FX546338	<.005	<.2	4	<2	4	<1	<1	6	<2	106	12.32	4.17	<.01	5.65
83662	268.0	272.8	4.8	FX546339	<.005	0.2	4	2	1	<1	1	2	<2	82	12.85	3.35	<.01	4.88
83662	403.0	405.7	2.7	FX546340	<.005	<.2	22	2	65	<1	<1	8	2	100	10.26	3.43	0.01	5.34
83662	414.9	418.8	3.9	FX546341	<.005	<.2	<2	<2	<1	<1	<1	2	<2	154	14.16	0.38	<.01	6.53
83662	468.5	473.9	5.4	FX546342	<.005	0.2	20	<2	5	<1	3	28	2	146	10.21	1.97	<.01	3.37
83662	473.9	477.4	3.5	FX546343	<.005	1.6	28	<2	42	3	1	1155	8	1735	8.31	2.8	<.01	4.73
83662	477.4	483.5	6.1	FX546344	<.005	0.2	6	2	9	<1	1	48	2	346	10.38	1.37	<.01	5.3
83662	483.5	489.7	6.2	FX546345	0.010	0.2	6	2	12	<1	5	32	2	366	8.58	2.38	<.01	4.45
83662	489.7	492.2	2.5	FX546346	0.015	0.2	10	2	10	<1	3	24	2	276	12.44	4.5	<.01	5.11
83662	492.2	494.5	2.3	FX546347	0.205	2.4	28	2	81	4	2	310	14	3010	8.55	2.26	<.01	4.18
83662	494.5	499.6	5.1	FX546348	0.020	0.4	8	<2	11	<1	2	16	2	268	10.13	2.1	<.01	4.22
83662	569.0	575.0	6.0	FX546349	0.005	<.2	20	<2	3	<1	<1	4	<2	206	12.34	0.49	<.01	5.75
83662	575.0	582.8	7.8	FX546350	<.005	<.2	42	<2	9	<1	<1	12	2	172	11.81	0.76	<.01	5.45
83662	582.8	588.7	5.9	FX546351	<.005	<.2	30	2	2	<1	<1	10	<2	166	11.99	0.4	<.01	6.2
83662	588.7	598.7	10.0	FX546352	0.010	0.2	20	<2	5	<1	<1	6	<2	156	12.2	0.65	<.01	5.96
83662	696.9	701.7	4.8	FX546353	<.005	0.2	16	2	61	<1	<1	6	6	270	12.8	0.26	<.01	4.9
83662	701.7	705.7	4.0	FX546354	<.005	<.2	2	<2	19	<1	<1	12	2	144	12.09	0.78	<.01	3.88
83662	STD	STD	STD	FX546355	<.005	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
83662	705.7	710.5	4.8	FX546356	<.005	0.2	20	<2	51	<1	<1	16	4	240	10.61	0.47	<.01	4.86
83662	710.5	715.3	4.8	FX546357	<.005	<.2	14	<2	56	<1	<1	8	2	106	9.85	0.24	<.01	3.8
83662	715.3	720.0	4.7	FX546358	<.005	<.2	30	<2	121	<1	<1	16	4	158	10.47	0.18	<.01	4.27
83662	720.0	724.8	4.8	FX546359	<.005	1	466	2	862	1	<1	82	16	252	9.21	0.47	<.01	6.97
83662	724.8	726.8	2.0	FX546360	<.005	<.2	2	<2	21	<1	<1	4	<2	86	13.2	0.07	<.01	4
83662	726.8	731.7	4.9	FX546361	<.005	<.2	34	2	35	<1	<1	6	2	74	9.13	1.02	<.01	5.34

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn	XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %
83662	731.7	734.0	2.3	FX546362	<.005	<.2	22	<2	130	<1	<1	14	2	70	11.67	0.25	<.01	6.9
83662	748.5	756.5	8.0	FX546363	<.005	0.2	64	<2	136	<1	<1	114	12	230	11.87	0.36	<.01	7.46
83662	756.5	762.4	5.9	FX546364	<.005	0.4	48	4	290	<1	1	30	2	62	9.2	0.43	<.01	8.01
83661	192.5	199.6	7.1	FX546365	<.005	<.2	26	<2	116	<1	<1	2	<2	112	15.2	2.56	<.01	10.74
83661	199.6	205.7	6.1	FX546366	<.005	<.2	14	<2	49	<1	<1	<2	<2	152	16.19	1.34	<.01	12.77
83661	205.7	209.7	4.0	FX546367	<.005	<.2	8	<2	12	<1	<1	<2	<2	66	7.37	3.46	<.01	5.04
83661	209.7	215.6	5.9	FX546368	<.005	<.2	10	<2	5	<1	<1	<2	<2	50	7.77	4.27	<.01	3.88
83661	264.6	269.8	5.2	FX546369	0.355	2.8	3420	12	417	<1	7	402	52	396	10.99	0.88	<.01	10.4
83661	271.5	277.2	5.7	FX546370	0.055	0.6	334	<2	249	<1	5	102	24	254	12.61	0.7	<.01	9.7
83661	278.3	283.0	4.7	FX546371	0.010	<.2	22	<2	5	<1	2	10	<2	94	12.05	0.33	<.01	6.65
83661	283.0	288.6	5.6	FX546372	<.005	<.2	22	<2	7	<1	2	10	<2	108	12.46	0.25	<.01	8.61
83661	288.6	291.7	3.1	FX546373	<.005	<.2	18	<2	6	<1	3	2	<2	96	16.94	0.33	<.01	8.69
83661	292.5	298.7	6.2	FX546374	0.005	0.6	176	<2	608	<1	<1	40	20	144	14.67	0.29	<.01	13.17
83661	STD	STD	STD	FX546375	0.005	<.2	16	<2	3	<1	4	<2	<2	50	10.88	0.77	<.01	2.31
83661	298.7	306.1	7.4	FX546376	<.005	<.2	34	<2	7	<1	4	8	<2	102	12.9	0.25	<.01	7.6
83661	306.1	311.3	5.2	FX546377	0.010	0.2	60	<2	88	<1	2	16	<2	114	14.5	0.28	<.01	6.62
83661	311.3	318.2	6.9	FX546378	0.015	0.2	142	<2	63	<1	4	16	8	172	12.98	0.32	<.01	6.97
83661	318.2	323.7	5.5	FX546379	0.015	0.8	546	2	1565	<1	<1	40	22	316	11.48	0.36	<.01	17.13
83661	323.7	330.0	6.3	FX546380	<.005	<.2	56	<2	102	<1	1	2	<2	136	12.8	0.86	<.01	12.61
83661	330.0	336.4	6.4	FX546381	<.005	<1	90	<10	60	<10	<5	15	10	150	10.8	8.04	<.01	16.89
83661	336.4	340.5	4.1	FX546382	<.005	<1	150	<10	250	<10	<5	25	<10	130	11.29	8.56	<.01	12.01
83661	340.5	346.6	6.1	FX546383	0.045	<1	590	<10	295	<10	<5	35	20	410	12.46	2.24	<.01	3.96
83661	346.6	348.3	1.7	FX546384	0.920	1	47300	<10	1595	<10	<5	275	90	5050	10.39	10.47	0.01	11.66
83661	348.3	352.8	4.5	FX546385	0.170	1	21400	<10	655	<10	5	160	30	870	11.55	0.41	<.01	14.25
83661	352.8	354.2	1.4	FX546386	0.830	5	>50000	60	1065	<10	5	1545	170	675	7.61	0.33	<.01	35.58
83661	354.2	356.5	2.3	FX546387	0.040	<1	2750	<10	485	<10	<5	35	10	445	11.25	0.3	<.01	11.54
83661	356.5	358.4	1.9	FX546388	0.530	1	>50000	10	80	<10	<5	255	70	260	10.25	0.47	<.01	21.45
83661	358.4	360.5	2.1	FX546389	0.155	0.8	>10000	6	60	<1	4	72	8	278	11.28	0.28	<.01	12.59
83661	415.2	422.0	6.8	FX546390	0.010	<.2	324	<2	226	<1	<1	12	6	180	11.01	0.29	<.01	10.76
83661	448.4	453.0	4.6	FX546391	0.020	1.2	204	<2	515	<1	<1	14	66	160	7.66	0.79	<.01	13.85
83661	499.2	504.0	4.8	FX546392	0.005	<.2	18	<2	5	<1	<1	2	<2	132	12.24	0.16	<.01	7.11
83661	504.0	509.9	5.9	FX546393	0.005	<.2	12	<2	11	<1	<1	<2	<2	132	11.43	0.19	<.01	7.26
83661	517.7	520.3	2.6	FX546394	0.010	0.2	108	<2	50	1	3	16	2	474	13.52	1.59	<.01	3.02
83661	STD	STD	STD	FX546395	<.005	<.2	6	6	93	<1	<1	<2	<2	84	11.85	0.6	<.01	5.97
83661	520.3	523.8	3.5	FX546396	<.005	<.2	22	<2	34	<1	1	10	4	312	8.35	0.46	<.01	6.74
83661	539.7	541.7	2.0	FX546397	<.005	0.2	30	<2	82	<1	1	4	8	762	13.05	0.32	<.01	5.8
83661	541.7	546.8	5.1	FX546398	<.005	<.2	10	<2	6	<1	<1	2	<2	168	12.93	0.31	<.01	5.83
83661	546.8	549.6	2.8	FX546399	<.005	<.2	8	<2	5	<1	<1	2	<2	80	7.79	1.07	<.01	3.48
83661	549.6	555.3	5.7	FX546400	<.005	<.2	12	<2	8	<1	<1	4	<2	106	14.14	0.25	<.01	6.59
83661	555.3	560.6	5.3	FX546401	<.005	<.2	16	<2	34	<1	<1	4	2	92	10.23	0.16	<.01	7.65
83661	560.6	563.4	2.8	FX546402	<.005	<.2	24	<2	52	<1	3	8	<2	110	14.73	0.31	<.01	8.43
83661	583.5	587.5	4.0	FX546403	<.005	<.2	30	<2	32	<1	<1	2	<2	260	14.16	0.25	<.01	11.78

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn	XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %
83661	667.1	668.4	1.3	FX546404	<.005	0.6	270	<2	1755	<1	<1	8	22	450	14.52	1.75	<.01	15.33
83661	737.7	739.7	2.0	FX546405	0.005	0.2	72	<2	35	<1	4	12	2	128	12.47	1.18	<.01	4.5
83661	770.2	774.0	3.8	FX546406	<.005	<.2	60	<2	232	<1	2	6	<2	86	13.02	0.25	<.01	6.15
83664	197.5	206.9	9.4	FX546434	0.010	<.2	<2	<2	35	<1	<1	8	<2	700	12.73	0.13	<.01	6.21
83664	206.9	214.0	7.1	FX546435	0.010	<.2	52	<2	171	<1	<1	10	<2	502	12.11	0.14	<.01	5.68
83664	258.0	263.5	5.5	FX546436	0.020	<.2	188	<2	134	<1	1	6	2	76	15.04	0.27	<.01	5.4
83664	285.0	286.0	1.0	FX546437	0.005	<.2	2	<2	2	<1	<1	<2	<2	48	11.73	0.17	<.01	4.79
83664	292.6	294.0	1.4	FX546438	0.010	0.4	66	<2	857	5	<1	4	<2	122	23.03	0.19	<.01	16.83
83664	294.0	296.8	2.8	FX546439	0.030	0.4	212	2	856	<1	5	10	8	38	6.4	0.57	<.01	3.82
83664	306.8	310.0	3.2	FX546440	0.060	1.2	246	8	1870	<1	3	10	82	96	10.09	0.32	<.01	5.09
83664	310.0	314.6	4.6	FX546441	0.005	0.2	30	<2	144	<1	<1	2	14	86	22	0.54	<.01	13.49
83664	652.6	655.8	3.2	FX546442	<.005	0.4	16	<2	<1	<1	1	12	<2	196	18.74	0.39	<.01	27.56
83664	655.8	659.6	3.8	FX546443	<.005	0.4	48	4	333	3	<1	12	6	122	10.73	0.53	<.01	14.97
83664	659.6	660.6	1.0	FX546444	<.005	0.4	32	4	527	<1	1	8	<2	118	11.08	0.81	<.01	15.63
83664	660.6	665.2	4.6	FX546445	0.015	0.4	738	<2	385	<1	1	6	8	118	11.41	0.28	<.01	15.47
83664	719.7	727.0	7.3	FX546446	0.005	0.2	38	<2	289	<1	1	14	<2	196	12.03	0.25	<.01	8.38
83664	727.0	734.4	7.4	FX546447	0.010	0.8	142	<2	1055	<1	<1	14	2	244	11.89	0.32	<.01	9.77
83664	734.4	742.2	7.8	FX546448	0.130	1.4	378	<2	2020	<1	1	46	2	282	12.19	0.22	0.01	9.23
83664	742.2	749.1	6.9	FX546449	0.155	1.2	472	<2	2900	<1	3	52	<2	334	11.14	0.35	<.01	7.85
83664	STD	STD	STD	FX546450	<.005	<.2	<2	<2	112	<1	1	8	4	88	13.37	8.37	<.01	10.75
83664	762.7	770.9	8.2	FX546451	0.050	0.4	328	<2	319	4	1	8	<2	1400	11.86	0.28	<.01	8.54
83664	778.6	794.0	15.4	FX546452	0.015	0.2	34	<2	223	<1	1	10	2	180	12.47	0.31	0.01	8.38
83664	794.0	798.3	4.3	FX546453	0.010	0.2	14	<2	220	<1	<1	8	<2	1210	11.42	0.24	<.01	6.43
83664	798.3	805.9	7.6	FX546454	0.025	1	76	<2	1555	4	<1	34	<2	6520	15.42	0.47	<.01	14.31
83664	822.0	830.3	8.3	FX546455	0.070	0.6	602	2	990	<1	2	16	10	336	13.9	0.64	<.01	14.48
83664	830.3	835.4	5.1	FX546456	0.025	0.6	312	<2	242	<1	1	12	8	2300	11.7	0.6	<.01	9.5
83664	914.0	915.0	1.0	FX546457	<.005	<.2	<2	<2	24	<1	<1	<2	<2	98	13.92	3.68	<.01	8.09
83664	930.2	936.6	6.4	FX546458	0.020	0.2	26	<2	50	<1	8	576	4	600	11.58	0.66	<.01	3.85
83664	956.8	960.5	3.7	FX546459	0.050	0.2	60	<2	62	<1	3	128	4	778	9.38	0.84	0.01	10.3
83664	1099.1	1102.5	3.4	FX546460	<.005	<.2	44	<2	74	<1	<1	12	<2	186	15.69	4.24	<.01	9.05
83664	1115.2	1118.9	3.7	FX546461	0.020	2.4	222	<2	8740	9	1	80	12	146	13.97	0.45	<.01	14.55
83664	1139.7	1143.0	3.3	FX546462	<.005	<.2	38	<2	184	<1	1	<2	4	76	14.84	0.39	<.01	8.49
83664	1148.6	1155.4	6.8	FX546463	<.005	<.2	40	<2	6	<1	<1	2	2	102	16.01	0.41	<.01	12.28
83664	1195.5	1199.5	4.0	FX546464	0.075	2	220	<2	6880	<1	<1	96	20	502	13.57	0.63	<.01	19.7
83664	1232.0	1238.0	6.0	FX546465	0.020	0.6	18	<2	2220	<1	<1	8	<2	120	13.35	0.66	0.01	16.38
83664	1238.4	1241.9	3.5	FX546466	0.005	0.4	24	<2	409	<1	1	10	<2	166	15	0.36	<.01	16.46
83664	1243.1	1250.0	6.9	FX546467	0.005	0.2	12	<2	21	<1	2	14	4	162	15.64	0.93	<.01	9.51
83664	1270.3	1273.4	3.1	FX546468	0.095	2	454	<2	941	<1	<1	380	14	2880	14.84	0.69	<.01	15.3
83664	1273.4	1276.0	2.6	FX546469	0.025	0.6	148	<2	440	6	1	84	4	4750	15.99	0.31	0.01	14.01
83664	STD	STD	STD	FX546470	0.085	1.2	14	<2	537	<1	<1	732	2	838	13.38	6.03	0.01	13.98
83664	1276.5	1284.2	7.7	FX546471	0.010	1	74	<2	178	1	1	586	2	5090	17.84	0.33	<.01	13.41
83664	1284.2	1285.2	1.0	FX546472	0.055	0.8	162	<2	213	<1	3	1390	<2	1810	5.5	2.27	0.01	6.05

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn	XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %
83664	1285.2	1290.2	5.0	FX546473	0.015	0.6	44	<2	28	<1	<1	248	<2	568	19.95	0.74	0.01	13.96
83664	1290.2	1293.7	3.5	FX546474	0.015	0.6	130	<2	234	<1	2	42	10	768	6.33	1.14	0.01	7.24
83664	1293.7	1298.6	4.9	FX546475	0.010	0.2	12	<2	3	<1	1	10	10	298	18.76	0.54	0.01	14.35
83664	1298.6	1301.7	3.1	FX546476	0.010	1	244	<2	615	4	1	66	8	3860	2.89	1.13	<.01	6.27
83664	1310.6	1313.0	2.4	FX546477	0.050	1.4	454	2	659	6	7	46	10	6550	8.47	0.72	<.01	18.47
83664	1313.0	1315.0	2.0	FX546478	0.005	0.2	44	<2	53	6	1	18	16	1120	17.58	0.47	<.01	18.31
83664	1315.0	1318.5	3.5	FX546479	0.020	0.2	152	<2	220	<1	2	20	2	688	7.27	1.8	<.01	17
83664	1327.1	1328.5	1.4	FX546480	0.020	0.2	132	<2	148	1	3	30	2	700	2.71	1.54	<.01	4.82
83664	1331.5	1333.7	2.2	FX546481	0.010	0.2	32	<2	370	2	1	132	<2	1175	4.57	2.87	0.01	6.33
83665	161.0	162.0	1.0	FX546482	0.010	<.2	2	<2	<1	<1	<1	6	2	74	19.87	2.49	<.01	10.25
83665	283.0	284.0	1.0	FX546483	<.005	<.2	<2	<2	<1	<1	<1	<2	<2	36	11.41	1.56	<.01	2.43
83665	515.0	516.0	1.0	FX546484	<.005	<.2	6	<2	<1	<1	<1	<2	<2	62	10.37	1.19	<.01	2.98
83665	520.0	521.0	1.0	FX546485	<.005	<.2	<2	<2	<1	<1	<1	2	<2	40	9.64	0.74	<.01	2.98
83665	542.0	543.0	1.0	FX546486	<.005	<.2	6	<2	<1	<1	<1	<2	<2	32	7.54	0.35	<.01	1.55
83665	626.0	627.0	1.0	FX546487	0.005	<.2	6	<2	<1	<1	<1	2	2	120	10.3	0.19	<.01	6.9
83665	665.0	666.0	1.0	FX546488	0.005	<.2	2	<2	<1	<1	1	<2	<2	112	13.78	1.23	<.01	5.05
83665	682.3	683.0	0.7	FX546489	0.010	0.4	36	<2	101	<1	2	48	<2	70	16.11	1.89	<.01	4.63
83665	STD	STD	STD	FX546490	0.005	<.2	2	<2	<1	<1	3	4	<2	48	10.92	0.77	<.01	2.33
83665	748.0	754.0	6.0	FX546491	0.005	0.2	18	<2	18	<1	<1	48	2	48	13.18	0.17	<.01	3.89
83665	754.0	759.5	5.5	FX546492	0.005	<.2	26	<2	26	<1	1	8	<2	50	11.57	0.53	<.01	5.19
83665	759.5	764.9	5.4	FX546493	<.005	0.2	18	<2	16	<1	3	8	<2	54	12.83	0.67	<.01	3.55
83665	834.8	838.0	3.2	FX546494	0.010	0.6	18	<2	40	<1	1	210	2	134	12.58	0.56	<.01	5.76
83665	838.0	842.7	4.7	FX546495	<.005	<.2	10	<2	16	<1	2	2	4	92	11.28	0.27	<.01	4.76
83665	883.4	887.6	4.2	FX546496	<.005	<.2	6	<2	<1	<1	<1	2	2	96	13.07	0.41	<.01	4.69
83665	908.0	909.0	1.0	FX546497	0.005	<.2	12	<2	4	<1	<1	<2	<2	94	12.17	0.26	<.01	6.18
83665	1006.3	1009.0	2.7	FX546498	<.005	0.2	26	<2	8	<1	1	6	<2	186	20.87	0.92	<.01	12.31
83665	1054.7	1055.9	1.2	FX546499	0.005	<.2	22	<2	11	<1	1	6	<2	94	12.94	0.58	<.01	6.28
83665	1055.9	1060.0	4.1	FX546500	0.010	0.2	34	<2	38	<1	1	2	2	112	14.25	0.74	<.01	8.12
83665	1060.0	1063.1	3.1	FX546501	0.015	0.2	34	<2	52	<1	3	16	<2	172	17.34	0.47	<.01	10.35
83665	1063.1	1065.5	2.4	FX546502	<.005	<.2	34	<2	7	<1	1	8	4	208	20.13	0.77	<.01	16.49
83667	42.8	43.5	0.7	FX546553	<.005	<.2	<2	<2	1	<1	<1	2	<2	48	12.76	1.08	<.01	2.64
83667	135.1	136.4	1.3	FX546554	0.025	3.6	12	<2	117	<1	1	186	2	678	13.03	0.48	<.01	10.87
83667	STD	STD	STD	FX546555	<.005	<.2	<2	<2	<1	<1	3	4	<2	48	10.99	0.77	<.01	2.3
83667	180.3	182.7	2.4	FX546556	0.01	0.8	12	<2	253	<1	<1	112	<2	268	15.26	1.39	<.01	9.82
83667	193.1	199.8	6.7	FX546557	0.01	0.6	6	2	1230	<1	<1	8	2	226	16.52	0.54	<.01	10.12
83667	199.8	204.8	5.0	FX546558	0.05	0.6	40	<2	44	<1	<1	96	<2	656	11.06	0.65	<.01	10.29
83667	277.1	280.3	3.2	FX546559	0.015	0.2	20	<2	26	1	<1	42	<2	2030	11.04	0.15	<.01	11.5
83667	280.3	283.0	2.7	FX546560	0.01	0.2	20	<2	35	<1	<1	106	4	1640	10.63	0.14	<.01	11.48
83667	283.0	285.7	2.7	FX546561	0.01	0.6	30	<2	90	1	<1	572	8	5320	12.45	0.25	<.01	8.47
83667	285.7	293.8	8.1	FX546562	0.01	0.2	2	<2	10	<1	<1	194	<2	1240	13.04	0.3	<.01	9.12
83667	293.8	295.8	2.0	FX546563	0.01	<.2	14	<2	14	<1	1	44	2	396	4.04	0.93	<.01	4.85
83667	310.8	317.3	6.5	FX546564	<.005	0.2	10	<2	39	<1	<1	86	<2	868	14.59	0.12	<.01	10.47

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn	XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %
83667	317.3	320.0	2.7	FX546565	<.005	0.6	32	2	79	<1	<1	190	6	786	13.97	0.23	<.01	8.94
83667	320.0	326.0	6.0	FX546566	<.005	<.2	<2	<2	12	<1	<1	54	<2	1160	14.05	0.12	<.01	9.31
83667	326.0	332.2	6.2	FX546567	<.005	<.2	20	<2	9	<1	<1	16	2	464	14.23	0.1	<.01	9.03
83667	478.1	483.5	5.4	FX546568	<.005	<.2	6	<2	14	<1	<1	64	2	350	12.6	0.23	<.01	7.16
83667	483.5	489.0	5.5	FX546569	<.005	0.2	54	<2	13	<1	1	62	2	386	13.16	0.5	<.01	6.66
83667	489.0	495.2	6.2	FX546570	<.005	0.2	10	<2	20	<1	1	112	2	756	12.33	1.14	<.01	6.57
83667	574.4	580.0	5.6	FX546571	<.005	<.2	36	<2	482	<1	1	18	8	448	11.86	0.53	<.01	8.64
83667	580.0	585.2	5.2	FX546572	<.005	<.2	50	<2	69	<1	2	10	2	530	12.17	0.38	<.01	8.02
83667	701.5	707.5	6.0	FX546573	<.005	<.2	42	<2	106	<1	1	6	2	168	11.72	0.4	<.01	7.7
83667	797.5	798.0	0.5	FX546574	<.005	<.2	30	<2	86	<1	4	2	10	74	13.51	0.22	<.01	4.42
83667	STD	STD	STD	FX546575	<.005	<.2	<2	<2	98	<1	<1	2	2	80	13.35	8.27	<.01	10.75
83667	811.6	812.4	0.8	FX546576	<.005	<.2	6	<2	4	<1	1	4	<2	66	11.98	0.39	<.01	4.26
83667	831.4	832.0	0.6	FX546577	<.005	<.2	20	<2	88	<1	<1	2	2	80	16.05	0.36	<.01	5.57
83667	860.4	864.0	3.6	FX546578	<.005	<.2	4	<2	212	<1	1	4	2	88	10.93	0.52	<.01	5.55
83667	864.0	869.1	5.1	FX546579	<.005	<.2	16	<2	172	<1	1	4	8	554	11.68	1.55	<.01	7.9
83667	1033.8	1037.3	3.5	FX546580	<.005	<.2	10	<2	220	<1	1	6	10	142	12.61	0.86	<.01	8
83667	1037.3	1040.6	3.3	FX546581	<.005	<.2	18	<2	52	<1	4	12	6	170	12.47	3.72	<.01	9.3
83667	1040.6	1045.6	5.0	FX546582	<.005	<.2	6	<2	14	<1	1	<2	2	96	11.37	1.59	<.01	5.51
83668	396.5	404.5	8.0	FX546583	<.005	0.6	92	<2	110	<1	<1	24	2	198	13.69	0.19	<.01	5.3
83668	418.2	426.3	8.1	FX546584	<.005	0.2	66	<2	308	<1	1	36	<2	202	12.17	0.13	<.01	3.7
83668	426.6	427.3	0.7	FX546585	<.005	0.8	22	<2	1630	<1	1	22	<2	1665	12.16	0.16	<.01	4.38
83668	442.2	451.7	9.5	FX546586	<.005	<.2	14	<2	18	<1	<1	12	2	114	12.41	0.2	<.01	5.08
83668	642.0	642.8	0.8	FX546587	<.005	<.2	2	<2	46	<1	<1	2	2	66	14.11	3.76	<.01	8.14
83668	692.3	698.0	5.7	FX546588	<.005	0.4	22	<2	1885	<1	<1	2	6	596	12.52	0.18	<.01	6.69
83668	698.0	704.3	6.3	FX546589	<.005	<.2	60	<2	194	1	1	2	10	1215	13.15	0.18	<.01	6.5
83668	841.5	842.0	0.5	FX546590	0.03	0.6	12	<2	196	<1	<1	20	<2	108	19.29	2.33	<.01	10.61
83668	1100.0	1100.8	0.8	FX546591	<.005	<.2	<2	<2	3	<1	<1	2	<2	78	13.24	1.68	<.01	5.06
83668	1295.7	1303.1	7.4	FX546592	<.005	<.2	2	<2	12	<1	<1	6	<2	58	11.72	2.22	<.01	4.29
83668	1303.4	1312.8	9.4	FX546593	<.005	0.2	<2	<2	18	<1	1	12	<2	70	12.04	2.87	<.01	4.76
83668	1336.6	1340.7	4.1	FX546594	<.005	<.2	<2	<2	8	<1	<1	8	<2	50	12	3.29	<.01	3.86
83668	STD	STD	STD	FX546595	0.085	1.2	<2	<2	493	<1	<1	708	<2	844	13.4	6.04	0.01	14.02
83668	1340.7	1344.0	3.3	FX546596	<.005	0.2	4	<2	7	<1	1	8	<2	50	11.46	2.45	<.01	3.37
83668	1344.0	1348.7	4.7	FX546597	<.005	<.2	<2	<2	13	<1	1	6	<2	72	11.96	2.92	<.01	4.35
83668	1374.7	1382.0	7.3	FX546598	<.005	<.2	<2	<2	4	<1	1	<2	<2	48	10.3	1.23	<.01	4.4
83668	1461.2	1466.8	5.6	FX546599	<.005	<.2	<2	<2	43	<1	<1	4	<2	30	8.31	7.41	0.01	6.55
83668	1485.1	1490.9	5.8	FX546600	<.005	<.2	6	<2	20	<1	2	2	<2	48	11.81	4.21	<.01	3.63
83669	178.5	180.0	1.5	FX546601	0.02	<.2	48	<2	140	<1	<1	2	<2	60	4.65	9.98	0.01	18.04
83669	343.2	343.8	0.6	FX546602	<.005	<.2	10	<2	124	<1	<1	<2	<2	76	15.17	10.09	0.01	8.85
83669	499.5	500.0	0.5	FX546603	<.005	<.2	14	<2	96	<1	1	<2	2	40	11.96	1.86	0.01	2.51
83669	521.5	523.1	1.6	FX546604	0.235	0.2	40	<2	17	<1	9	94	<2	304	10.49	2.02	<.01	2.35
83669	539.9	544.6	4.7	FX546605	<.005	<.2	14	<2	18	<1	1	8	<2	50	11.86	1.16	<.01	3.19
83669	544.6	550.0	5.4	FX546606	0.01	<.2	14	<2	97	<1	3	10	<2	124	10.22	0.33	<.01	5.66

DRILL HOLE #	FROM	TO	THICKNESS	ACNC SAMPLE #	FA+AA ppm Au	ppm Ag	ppm As	ppm Bi	ppm Cu	ppm Hg	ppm Mo	ppm Pb	ppm Sb	ppm Zn	XRF Al2O3 %	XRF CaO %	XRF Cr2O3 %	XRF Fe2O3 %
83669	629.3	634.5	5.2	FX546607	<.005	<.2	10	<2	22	<1	2	20	<2	108	14.07	2.19	<.01	6.04
83669	639.5	645.7	6.2	FX546608	<.005	<.2	10	<2	27	<1	1	12	<2	336	12.19	0.71	<.01	6.37
83669	676.2	680.5	4.3	FX546609	<.005	0.2	26	<2	148	<1	<1	18	4	232	12.18	0.53	<.01	7.13
83669	STD	STD	STD	FX546610	<.005	<.2	4	<2	<1	<1	3	2	<2	48	11.03	0.77	<.01	2.35
83669	680.5	684.8	4.3	FX546611	<.005	0.2	24	<2	146	<1	1	16	<2	184	11.59	0.4	<.01	7.68
83669	698.0	701.9	3.9	FX546612	<.005	0.2	16	<2	130	<1	1	8	6	528	11.58	0.36	0.01	6.69
83669	769.1	774.0	4.9	FX546613	<.005	0.6	16	<2	274	<1	1	100	2	698	12.36	0.39	<.01	7.32
83669	774.0	780.1	6.1	FX546614	<.005	1.8	12	<2	391	1	3	1095	<2	4200	10.74	0.38	0.01	8.25
83669	789.3	790.4	1.1	FX546615	<.005	1.2	12	<2	54	<1	3	370	<2	486	8.95	3.33	0.01	8.39
83669	790.4	797.0	6.6	FX546616	<.005	0.2	22	<2	148	<1	3	18	6	1625	12.26	0.52	<.01	6.88
83669	824.9	829.4	4.5	FX546617	0.035	0.8	604	<2	430	<1	5	74	<2	970	10.6	0.36	0.01	7.76
83669	837.3	842.0	4.7	FX546618	<.005	0.2	20	<2	59	<1	1	224	<2	440	12.85	0.39	<.01	6.79
83669	842.0	846.6	4.6	FX546619	<.005	0.4	26	<2	70	<1	1	432	<2	596	12.71	0.47	0.01	7.39
83669	867.9	869.5	1.6	FX546620	0.095	1.4	2020	2	1140	<1	5	38	2	182	11.23	0.76	0.01	14.16
83669	897.0	897.5	0.5	FX546621	<.005	<.2	18	<2	16	<1	<1	6	<2	60	13.89	3.63	<.01	4.8
83669	968.0	973.0	5.0	FX546622	<.005	0.2	30	<2	269	<1	1	12	<2	370	10.98	0.35	<.01	11.48
83669	1020.0	1026.2	6.2	FX546623	0.165	0.2	114	<2	14	<1	2	24	<2	170	12.2	1.58	<.01	6.93
83669	1033.2	1038.6	5.4	FX546624	0.025	0.2	102	<2	11	<1	1	122	2	262	11.77	1.17	<.01	7.66
83669	1038.6	1044.0	5.4	FX546625	<.005	0.2	14	<2	39	<1	1	40	<2	704	11.89	1.25	<.01	8.69
83669	1082.5	1086.6	4.1	FX546626	<.005	0.2	26	<2	18	<1	1	14	4	154	11.52	1.63	<.01	7.31
83669	1086.6	1090.3	3.7	FX546627	<.005	<.2	12	<2	9	<1	2	6	<2	188	12.8	1.54	<.01	6.62
83669	1090.3	1098.2	7.9	FX546628	<.005	0.2	42	<2	69	<1	2	72	8	870	11.13	2.09	<.01	7.11

ACNC SAMPLE #	XRF K2O %	XRF MgO %	XRF MnO %	XRF Na2O %	XRF P2O5 %	XRF SiO2 %	XRF TiO2 %	XRF LOI %	% TOTAL	ppm Ba	ppm Rb	ppm Sr	ppm Nb	ppm Zr	ppm Y	CHEMEX BATCH NUMBERS ICP9g	XRF A412
FX546320	0.29	5.01	0.16	4.43	0.12	45.94	0.53	9.78	99.31	990	4	148	<2	9	8	A9633199	A9633200
FX546321	1.85	6.43	0.24	1.77	0.17	44.05	0.77	11.72	98.78	450	24	94	<2	12	12	A9633199	A9633200
FX546322	1.77	0.98	0.11	3.31	0.08	69.82	0.47	3.41	98.58	490	20	62	4	102	32	A9633199	A9633200
FX546323	0.86	1.57	0.15	2.98	0.08	68.91	0.35	6	99.08	275	10	100	4	57	24	A9633199	A9633200
FX546324	0.81	2.82	0.28	2.75	0.08	65.67	0.41	5.46	98.37	265	10	84	2	57	22	A9633199	A9633200
FX546325	3.12	2.45	0.12	0.69	0.12	62.69	0.4	8.5	99.11	580	48	76	2	54	16	A9633199	A9633200
FX546326	1.68	2.27	0.17	2.67	0.11	64.11	0.42	7.41	98.92	255	26	62	4	69	28	A9633199	A9633200
FX546327	1.6	2.03	0.14	2.82	0.11	66.12	0.41	6.6	98.49	250	26	62	4	69	28	A9633199	A9633200
FX546328	1.57	2.64	0.18	2.48	0.11	64.97	0.37	8.15	99.18	240	24	62	4	63	26	A9633199	A9633200
FX546329	1.87	3.02	0.18	1.76	0.1	61.48	0.42	9.2	98.47	290	30	76	4	69	28	A9633199	A9633200
FX546330	1.82	2.85	0.19	1.36	0.1	64.81	0.43	8.46	98.7	270	28	76	4	63	26	A9633199	A9633200
FX546331	2.94	0.57	0.17	0.2	0.04	71.48	0.23	4.35	99.53	620	42	88	2	52	16	A9633199	A9633200
FX546332	2.95	0.16	0.1	0.3	0.05	75.89	0.3	2.69	99.21	215	14	<2	4	51	12	A9635958	A9635959
FX546333	3.04	2.19	0.23	0.21	0.08	64.72	0.39	7.72	99.3	340	36	16	8	87	28	A9635958	A9635959
FX546334	2.89	1.74	0.17	0.24	0.11	62.46	0.41	8.18	99.22	250	34	16	8	81	22	A9635958	A9635959
FX546335	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	A9635958	A9635959
FX546336	3.09	1.65	0.2	0.29	0.11	63.76	0.42	7.72	99.49	270	38	16	8	87	26	A9635958	A9635959
FX546337	2.81	1.66	0.17	0.26	0.12	62.76	0.38	8.67	99.3	245	34	16	6	84	22	A9635958	A9635959
FX546338	2.93	1.51	0.16	0.35	0.11	64.13	0.42	7.79	99.54	250	36	16	8	93	24	A9635958	A9635959
FX546339	3.11	1.18	0.13	0.38	0.12	66.32	0.45	6.41	99.18	260	38	14	8	96	24	A9635958	A9635959
FX546340	1.71	3.03	0.16	0.59	0.08	65.35	0.33	8.93	99.22	140	28	50	6	72	22	A9635958	A9635959
FX546341	2.34	2.54	0.07	0.62	0.08	63.58	0.46	8.44	99.2	185	38	48	8	105	22	A9635958	A9635959
FX546342	1.65	2.45	0.08	0.45	0.08	71.8	0.32	6.66	99.04	145	26	32	6	69	18	A9635958	A9635959
FX546343	1.12	3.87	0.11	0.33	0.07	68.99	0.27	8.47	99.07	105	18	20	6	63	20	A9635958	A9635959
FX546344	1.52	3.66	0.1	0.41	0.08	67.73	0.34	8.53	99.42	100	24	20	6	75	20	A9635958	A9635959
FX546345	1.19	3.69	0.1	0.18	0.07	69.99	0.27	8.73	99.63	100	18	16	6	75	18	A9635958	A9635959
FX546346	2.06	4.53	0.13	0.59	0.08	57.5	0.33	11.81	99.08	170	32	34	8	93	28	A9635958	A9635959
FX546347	1.22	3.1	0.08	0.39	0.07	71.29	0.27	8.07	99.48	75	18	22	6	84	18	A9635958	A9635959
FX546348	1.61	2.68	0.08	0.43	0.09	70.1	0.32	7.48	99.24	105	24	28	6	81	20	A9635958	A9635959
FX546349	2.31	3.01	0.09	0.22	0.09	66.08	0.39	8.38	99.15	190	34	18	8	96	24	A9635958	A9635959
FX546350	2.1	3.04	0.08	0.09	0.09	67.32	0.37	8.47	99.58	355	30	16	8	93	26	A9635958	A9635959
FX546351	2.22	3.57	0.08	0.1	0.08	64.69	0.38	9.44	99.16	165	34	42	8	93	24	A9635958	A9635959
FX546352	2.19	3.71	0.08	0.19	0.08	65.02	0.39	9.11	99.58	170	32	24	8	90	22	A9635958	A9635959
FX546353	2.43	2.36	0.12	0.32	0.04	68.61	0.27	7.23	99.34	365	34	4	10	111	26	A9635958	A9635959
FX546354	2.68	2.11	0.16	0.32	0.03	71.08	0.26	5.86	99.25	390	38	8	8	108	28	A9635958	A9635959
FX546355	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	A9635958	A9635959
FX546356	1.96	2.86	0.12	0.27	0.03	70.22	0.23	7.87	99.5	300	26	<2	8	99	24	A9635958	A9635959
FX546357	1.84	2.1	0.1	0.13	0.03	75.23	0.22	5.88	99.42	290	24	<2	8	96	20	A9635958	A9635959
FX546358	1.77	2.48	0.09	0.13	0.02	72.72	0.22	6.87	99.22	265	22	<2	8	96	22	A9635958	A9635959
FX546359	1.38	3.26	0.16	0.06	0.03	69	0.21	8.64	99.39	210	18	<2	8	90	20	A9635958	A9635959
FX546360	2.59	1.82	0.03	0.25	0.03	70.97	0.29	6.24	99.49	385	34	2	10	99	26	A9635958	A9635959
FX546361	1.5	3.13	0.14	0.05	0.03	72.88	0.21	5.85	99.28	235	20	<2	6	69	20	A9635958	A9635959

ACNC SAMPLE #	XRF K2O %	XRF MgO %	XRF MnO %	XRF Na2O %	XRF P2O5 %	XRF SiO2 %	XRF TiO2 %	XRF LOI %	% TOTAL	ppm Ba	ppm Rb	ppm Sr	ppm Nb	ppm Zr	ppm Y	CHEMEX BATCH NUMBERS ICP9g	XRF A412
FX546362	2.22	2.86	0.1	0.2	0.03	67.2	0.26	7.59	99.28	350	30	<2	8	105	28	A9635958	A9635959
FX546363	1.92	3.7	0.14	0.15	0.09	63.34	0.38	10.17	99.58	265	24	8	8	81	20	A9635958	A9635959
FX546364	1.85	2.36	0.11	0.09	0.04	70.45	0.23	6.75	99.52	260	24	<2	6	81	16	A9635958	A9635959
FX546365	2.6	4.53	0.12	1.19	0.15	48.38	0.72	13.58	99.77	320	40	70	<2	24	12	A9638057	A9638057
FX546366	3.17	5.01	0.1	1.11	0.17	45.01	0.81	13.94	99.62	435	48	70	<2	18	10	A9638057	A9638057
FX546367	1.44	3.19	0.09	0.39	0.04	69.59	0.19	9.19	99.99	225	22	122	2	48	10	A9638057	A9638057
FX546368	1.2	3.06	0.11	0.55	0.04	69.82	0.15	9.31	100.16	215	18	64	4	69	14	A9638057	A9638057
FX546369	0.99	8.43	0.17	0.32	0.14	54.19	0.38	12.48	99.37	115	14	30	2	54	10	A9638057	A9638057
FX546370	1.23	8.19	0.18	0.48	0.17	54.43	0.44	11.84	99.97	140	18	34	4	60	14	A9638057	A9638057
FX546371	1.29	6.32	0.17	0.45	0.14	62.36	0.4	9.32	99.48	160	18	30	4	66	14	A9638057	A9638057
FX546372	0.95	7.97	0.19	0.34	0.15	58.16	0.39	9.89	99.36	125	12	26	4	66	14	A9638057	A9638057
FX546373	1.53	8.17	0.17	0.73	0.16	51.39	0.54	10.55	99.2	190	22	46	6	87	20	A9638057	A9638057
FX546374	0.73	11.77	0.34	0.13	0.13	43.62	0.52	14.08	99.45	95	10	16	<2	27	8	A9638057	A9638057
FX546375	8.05	0.47	0.05	0.55	0.04	75.3	0.26	1.26	99.94	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	A9638057	A9638057
FX546376	1.19	6.93	0.19	0.32	0.15	61.2	0.42	8.6	99.75	175	14	24	4	69	12	A9638057	A9638057
FX546377	1.58	5.93	0.14	0.47	0.17	61.73	0.46	7.54	99.42	265	20	28	4	81	14	A9638057	A9638057
FX546378	1.36	5.56	0.13	0.39	0.14	63.73	0.4	7.83	99.81	225	16	26	4	66	12	A9638057	A9638057
FX546379	0.36	8.79	0.19	0.03	0.17	46.77	0.5	13.4	99.18	45	4	12	2	33	10	A9638057	A9638057
FX546380	0.79	8.97	0.17	0.3	0.18	49.53	0.56	12.85	99.62	105	10	26	2	36	12	A9638057	A9638057
FX546381	0.39	3.44	0.22	1.5	0.08	44.51	1.69	11.78	99.34	185	18	36	2	51	18	A9635896	9635897
FX546382	0.4	6.65	0.18	1.3	0.04	43.91	0.58	14.29	99.21	215	22	56	2	60	18	A9635896	9635897
FX546383	2.07	2.14	0.06	3.77	0.2	61.28	0.51	10.58	99.27	90	10	28	4	81	18	A9635896	9635897
FX546384	1.58	10.17	0.15	1.64	0.57	38.88	1.13	12.53	99.18	45	4	18	2	48	22	A9635896	9635897
FX546385	0.19	11.71	0.2	0.03	0.22	47.77	0.47	9.54	96.34	35	2	14	2	45	16	A9635896	9635897
FX546386	0.14	10.01	0.2	0.01	0.18	10.47	0.33	23.04	87.9	25	<2	14	<2	6	10	A9635896	9635897
FX546387	0.18	10.12	0.18	<.01	0.17	55.29	0.52	9.91	99.46	35	2	14	2	42	16	A9635896	9635897
FX546388	0.14	11.04	0.21	<.01	0.23	38.3	0.48	13.65	96.22	25	<2	14	2	39	12	A9635896	9635897
FX546389	0.2	9.69	0.14	<.01	0.13	55.13	0.46	8.53	98.43	615	2	14	2	36	10	A9638057	A9638057
FX546390	0.65	7.35	0.18	0.12	0.12	58.46	0.35	10.33	99.62	110	8	22	2	48	8	A9638057	A9638057
FX546391	0.77	5.18	0.15	0.55	0.09	56.02	0.23	14.08	99.37	115	10	46	2	48	8	A9638057	A9638057
FX546392	2.12	3.12	0.12	0.86	0.06	65.23	0.38	8.5	99.9	235	32	40	6	81	20	A9638057	A9638057
FX546393	2.01	3.03	0.14	0.82	0.06	65.65	0.35	8.43	99.37	215	30	36	4	78	28	A9638057	A9638057
FX546394	2.79	1.95	0.09	0.75	0.16	68.72	0.63	6.28	99.5	300	44	40	2	39	10	A9638057	A9638057
FX546395	2.1	3.41	0.15	0.83	0.06	65.36	0.35	8.72	99.4	missing	missing	missing	missing	missing	missing	A9638057	A9638057
FX546396	1.02	2.88	0.11	0.8	0.05	71.19	0.24	7.9	99.74	230	32	38	4	81	20	A9638057	A9638057
FX546397	1.76	3.21	0.09	1.19	0.07	65.89	0.39	8.12	99.89	130	16	32	4	57	16	A9638057	A9638057
FX546398	1.77	3.13	0.09	1.14	0.07	65.66	0.4	8.16	99.49	240	28	46	6	93	22	A9638057	A9638057
FX546399	0.92	2.05	0.05	0.73	0.04	77.85	0.25	5.58	99.81	135	14	36	4	60	14	A9638057	A9638057
FX546400	1.95	3.02	0.09	1.29	0.06	62.38	0.41	8.71	98.89	290	28	52	6	96	16	A9638057	A9638057
FX546401	1.37	3.07	0.1	0.92	0.05	67	0.31	8.6	99.46	225	18	40	4	72	12	A9638057	A9638057
FX546402	1.86	3.53	0.12	1.45	0.06	58.67	0.45	10.02	99.63	275	24	56	6	99	18	A9638057	A9638057
FX546403	1.53	5.22	0.18	0.7	0.17	53.88	0.45	11.82	100.14	355	20	34	4	72	18	A9638057	A9638057

ACNC SAMPLE #	XRF K2O %	XRF MgO %	XRF MnO %	XRF Na2O %	XRF P2O5 %	XRF SiO2 %	XRF TiO2 %	XRF LOI %	% TOTAL	ppm Ba	ppm Rb	ppm Sr	ppm Nb	ppm Zr	ppm Y	CHEMEX BATCH NUMBERS ICP9g	XRF A412
FX546404	0.12	13.89	0.44	<.01	0.21	39.81	0.53	12.69	99.29	30	<2	14	2	45	16	A9638057	A9638057
FX546405	2.6	1.91	0.1	0.58	0.12	69.88	0.51	6.15	100	350	40	34	4	51	18	A9638057	A9638057
FX546406	2.57	2.24	0.11	0.72	0.14	66.4	0.53	7.19	99.32	425	40	32	4	57	14	A9638057	A9638057
FX546434	2.13	3.58	0.1	0.18	0.08	68.52	0.4	4.32	98.38	210	32	16	6	99	36	A9643357	A9643358
FX546435	2.33	2.93	0.16	0.14	0.07	69.66	0.39	4.7	98.31	235	36	18	6	102	30	A9643357	A9643358
FX546436	3.09	2.94	0.09	0.12	0.06	64.04	0.46	7.91	99.42	545	48	38	8	111	28	A9643357	A9643358
FX546437	2.22	3.4	0.09	0.04	0.04	73.58	0.2	3.69	99.95	395	36	12	6	105	30	A9643357	A9643358
FX546438	2.12	12.24	0.16	0.18	0.1	35.06	0.57	8.64	99.12	395	30	40	10	159	50	A9643357	A9643358
FX546439	0.99	2.45	0.12	<.01	0.03	80.41	0.23	4.42	99.44	170	16	30	4	54	16	A9643357	A9643358
FX546440	2.3	3.09	0.18	0.01	0.06	70.28	0.31	6.96	98.69	405	36	22	4	81	24	A9643357	A9643358
FX546441	3.26	8.22	0.21	0.1	0.13	41.89	0.76	8.32	98.92	600	46	40	8	102	30	A9643357	A9643358
FX546442	0.06	10.93	0.45	<.01	0.26	31.79	1.17	8.11	99.46	30	<2	8	<2	21	20	A9643357	A9643358
FX546443	0.1	6.59	0.5	<.01	0.12	57.48	0.5	7.21	98.73	40	2	14	2	48	24	A9643357	A9643358
FX546444	0.06	6.57	0.53	<.01	0.15	52.25	0.63	11.16	98.87	25	<2	18	<2	15	12	A9643357	A9643358
FX546445	0.24	6.15	0.38	<.01	0.11	58.41	0.55	6.47	99.47	90	4	10	4	90	22	A9643357	A9643358
FX546446	1.94	2.98	0.18	0.03	0.11	67.07	0.44	5.87	99.28	540	26	16	6	171	26	A9643357	A9643358
FX546447	1.69	3.29	0.19	<.01	0.1	65.37	0.43	6.38	99.43	480	20	14	6	117	28	A9643357	A9643358
FX546448	2.02	2.84	0.17	<.01	0.1	65.68	0.44	6.38	99.28	545	24	12	6	81	26	A9643357	A9643358
FX546449	2.04	2.19	0.2	<.01	0.09	67.26	0.39	8.23	99.74	555	26	112	4	72	28	A9643357	A9643358
FX546450	0.78	5.26	0.33	2.46	0.14	50.79	1.26	5.65	99.16	210	14	140	4	96	30	A9643357	A9643358
FX546451	1.92	3.07	0.15	0.06	0.14	65.65	0.44	7.11	99.22	500	24	12	6	78	24	A9643357	A9643358
FX546452	2.03	3.12	0.18	0.04	0.12	66.25	0.49	5.57	98.97	520	26	12	6	93	30	A9643357	A9643358
FX546453	2	2.79	0.14	0.07	0.1	70.59	0.37	5.21	99.36	505	26	12	6	84	24	A9643357	A9643358
FX546454	1.39	6.83	0.26	0.22	0.13	49.36	0.55	9.39	98.33	345	18	18	8	120	36	A9643357	A9643358
FX546455	0.88	7.68	0.38	<.01	0.14	51.31	0.54	9.55	99.5	220	12	14	6	96	32	A9643357	A9643358
FX546456	1.29	5.6	0.19	0.13	0.12	61.82	0.47	6.93	98.35	450	18	16	6	84	30	A9643357	A9643358
FX546457	0.9	3.64	0.15	4.67	0.15	55.99	0.6	6.49	98.28	725	16	206	4	78	18	A9643357	A9643358
FX546458	2.88	1.63	0.17	0.4	0.08	72.52	0.4	5.05	99.22	395	44	38	6	84	22	A9643357	A9643358
FX546459	2.08	2.54	0.21	0.45	0.06	64.11	0.35	9	99.33	285	32	34	6	66	20	A9643357	A9643358
FX546460	1.9	8.74	0.2	0.19	0.21	48.3	0.62	10.8	99.94	340	32	84	<2	30	14	A9643357	A9643358
FX546461	0.31	11.88	0.15	<.01	0.21	47.79	0.61	9.13	99.05	55	4	18	<2	30	14	A9643357	A9643358
FX546462	2.91	4.46	0.22	0.42	0.24	58.79	0.66	7.63	99.05	505	42	38	6	39	12	A9643357	A9643358
FX546463	1.66	8.91	0.15	0.16	0.23	49.65	0.69	8.7	98.85	295	26	32	6	51	18	A9643357	A9643358
FX546464	0.08	10.37	0.36	<.01	0.2	44.45	0.59	9.35	99.3	15	<2	12	4	27	14	A9643357	A9643358
FX546465	0.2	9.11	0.25	<.01	0.14	50.92	0.57	7.07	98.66	35	4	16	2	27	12	A9643357	A9643358
FX546466	0.45	8.99	0.21	0.02	0.14	48.97	0.64	8.27	99.51	80	6	16	<2	21	12	A9643357	A9643358
FX546467	1.66	7.67	0.17	0.24	0.4	55.77	0.74	7.32	100.05	235	26	44	4	63	22	A9643357	A9643358
FX546468	1.16	8.43	0.29	0.34	0.13	43	0.42	13.68	98.28	150	18	52	<2	21	10	A9643357	A9643358
FX546469	0.98	9.66	0.27	0.41	0.07	46.53	0.35	9.92	98.51	130	16	20	<2	9	6	A9643357	A9643358
FX546470	1.6	4.99	0.16	2.1	0.17	54	0.93	1.98	99.33	470	58	240	10	165	28	A9643357	A9643358
FX546471	1.74	8.92	0.34	0.61	0.08	46.4	0.37	8.68	98.72	205	26	28	<2	12	6	A9643357	A9643358
FX546472	0.72	3.32	0.28	0.17	0.04	74.98	0.13	5.18	98.65	95	12	46	<2	9	4	A9643357	A9643358

ACNC SAMPLE #	XRF K2O %	XRF MgO %	XRF MnO %	XRF Na2O %	XRF P2O5 %	XRF SiO2 %	XRF TiO2 %	XRF LOI %	% TOTAL	ppm Ba	ppm Rb	ppm Sr	ppm Nb	ppm Zr	ppm Y	CHEMEX BATCH NUMBERS ICP9g	XRF A412
FX546473	1.84	11	0.46	0.49	0.1	38.78	0.44	10.84	98.61	240	28	44	<2	12	6	A9643357	A9643358
FX546474	0.46	4.98	0.35	0.07	0.04	72.04	0.17	6.5	99.33	65	8	24	<2	15	4	A9643357	A9643358
FX546475	1.02	12.34	0.35	0.3	0.1	41.73	0.43	9.71	99.64	150	16	28	<2	12	6	A9643357	A9643358
FX546476	0.2	3.23	0.27	0.18	0.03	80.24	0.1	5.08	99.62	30	4	20	<2	27	4	A9643357	A9643358
FX546477	0.07	6.73	0.26	0.26	0.12	53.03	0.33	9.84	98.3	15	<2	16	2	42	12	A9643357	A9643358
FX546478	0.21	11.98	0.19	0.07	0.17	41.47	0.81	7.97	99.23	30	4	14	2	33	12	A9643357	A9643358
FX546479	0.07	6.1	0.32	<.01	0.18	55.87	0.34	9.35	98.3	10	<2	28	4	57	16	A9643357	A9643358
FX546480	0.14	2.31	0.26	<.01	0.01	84.33	0.13	2.86	99.11	20	2	18	<2	12	4	A9643357	A9643358
FX546481	0.14	3.71	0.32	0.03	0.05	75.2	0.17	5.93	99.33	20	2	34	<2	27	8	A9643357	A9643358
FX546482	5.63	2.78	0.07	0.74	0.29	46.67	0.82	9.67	99.28	1035	88	62	10	72	28	A9644926	A9644927
FX546483	2.2	0.71	0.04	2.61	0.03	73.69	0.17	3.85	98.7	755	34	64	8	99	18	A9644926	A9644927
FX546484	2.34	2.45	0.05	0.59	0.02	72.09	0.16	6.33	98.57	335	42	28	8	90	20	A9644926	A9644927
FX546485	1.4	1.32	0.03	2.32	0.03	77.12	0.15	3.61	99.34	210	26	62	8	84	14	A9644926	A9644927
FX546486	1.05	1.41	0.01	1.6	0.02	82.66	0.12	2.22	98.53	145	18	40	6	72	12	A9644926	A9644927
FX546487	1.78	3.68	0.05	0.01	0.07	72.27	0.33	3.06	98.64	220	32	10	6	78	22	A9644926	A9644927
FX546488	2.33	2.66	0.08	0.82	0.08	68.58	0.42	4.33	99.36	275	46	32	8	102	28	A9644926	A9644927
FX546489	2.51	2.58	0.1	2.83	0.29	62.02	0.77	5.03	98.76	240	44	54	4	63	28	A9644926	A9644927
FX546490	8.06	0.47	0.05	0.54	0.03	74.39	0.26	1.23	99.05	765	122	18	30	321	130	A9644926	A9644927
FX546491	1.57	6.51	0.04	0.27	0.04	68.52	0.25	4.6	99.04	120	28	30	6	96	22	A9644926	A9644927
FX546492	0.84	8.17	0.06	0.1	0.05	66.08	0.29	5.68	98.56	70	16	52	4	57	16	A9644926	A9644927
FX546493	2.1	4.85	0.05	0.21	0.08	68.77	0.38	5.16	98.65	145	36	58	6	90	22	A9644926	A9644927
FX546494	1.91	4.91	0.06	0.07	0.08	68.21	0.39	4.96	99.49	140	38	32	6	90	28	A9644926	A9644927
FX546495	2.05	3.95	0.06	0.08	0.07	72.13	0.35	4.07	99.07	135	38	38	6	84	26	A9644926	A9644927
FX546496	2.85	3.43	0.05	0.1	0.09	70.08	0.41	4.08	99.26	160	52	24	6	96	28	A9644926	A9644927
FX546497	2.02	4.05	0.1	0.05	0.07	70.04	0.36	4.08	99.38	135	44	22	6	87	26	A9644926	A9644927
FX546498	1.8	15.28	0.13	0.03	0.13	36.6	0.71	9.97	98.75	120	32	34	10	150	48	A9644926	A9644927
FX546499	2.05	5.52	0.09	0.06	0.07	65.51	0.41	5	98.51	170	36	22	6	99	30	A9644926	A9644927
FX546500	1.5	7.87	0.09	0.01	0.2	59.52	0.7	6.33	99.33	150	32	26	2	51	20	A9644926	A9644927
FX546501	2.07	9.35	0.1	0.12	0.16	50.96	0.79	7.42	99.13	170	36	28	4	78	28	A9644926	A9644927
FX546502	0.32	17.22	0.14	<.01	0.21	32.19	0.92	10.43	98.82	30	6	24	10	66	32	A9644926	A9644927
FX546553	2.43	2.3	0.04	0.74	0.03	73.16	0.2	3.77	99.15	320	50	54	10	114	20	A9713299	A9713300
FX546554	1.52	5.37	0.05	0.27	0.16	60.74	0.42	5.88	98.79	160	28	24	4	21	20	A9713299	A9713300
FX546555	8.04	0.42	0.05	0.56	0.03	74.54	0.27	1.21	99.18	785	120	16	36	330	125	A9713299	A9713300
FX546556	0.82	10.76	0.12	0.04	0.12	51.92	0.5	7.84	98.59	80	14	16	<2	12	12	A9713299	A9713300
FX546557	0.48	12.44	0.08	0.01	0.18	49.23	0.62	7.99	98.21	50	8	10	<2	18	12	A9713299	A9713300
FX546558	0.26	7.94	0.09	0.06	0.11	62.17	0.54	6.1	99.27	30	6	8	2	36	20	A9713299	A9713300
FX546559	0.95	5.7	0.09	0.12	0.06	62.76	0.28	6.07	98.72	85	14	8	4	45	12	A9713299	A9713300
FX546560	0.34	7.4	0.13	0.07	0.04	61.87	0.28	6.51	98.89	35	6	12	4	42	12	A9713299	A9713300
FX546561	0.72	8.18	0.19	0.24	0.06	61.29	0.32	6.41	98.58	60	12	18	4	51	12	A9713299	A9713300
FX546562	0.67	8.85	0.17	0.03	0.07	59.58	0.31	6.85	98.99	65	12	14	4	51	10	A9713299	A9713300
FX546563	0.21	3.08	0.31	<.01	0.01	81.28	0.14	3.62	98.47	35	4	28	<2	21	8	A9713299	A9713300
FX546564	1.17	8.45	0.26	0.08	0.06	56.8	0.36	6.67	99.03	155	18	22	4	57	14	A9713299	A9713300

ACNC SAMPLE #	XRF K2O %	XRF MgO %	XRF MnO %	XRF Na2O %	XRF P2O5 %	XRF SiO2 %	XRF TiO2 %	XRF LOI %	% TOTAL	ppm Ba	ppm Rb	ppm Sr	ppm Nb	ppm Zr	ppm Y	CHEMEX BATCH NUMBERS ICP9g	XRF A412
FX546565	1.84	6.4	0.23	0.08	0.12	61.12	0.37	5.94	99.24	215	28	18	4	51	18	A9713299	A9713300
FX546566	1.17	8.69	0.59	0.05	0.04	58.69	0.36	5.9	98.97	140	16	56	4	57	10	A9713299	A9713300
FX546567	1.18	8.73	0.41	<.01	0.04	59.18	0.36	5.43	98.69	140	16	30	4	57	10	A9713299	A9713300
FX546568	2.11	3.92	0.2	0.08	0.13	68.46	0.46	4.22	99.57	320	28	26	8	90	26	A9713299	A9713300
FX546569	2.63	3.36	0.3	0.04	0.12	66.81	0.48	4.74	98.8	390	36	44	8	96	26	A9713299	A9713300
FX546570	1.96	4.37	0.35	0.02	0.11	66.46	0.41	5.42	99.14	335	28	14	8	87	26	A9713299	A9713300
FX546571	1.81	4.26	0.48	0.06	0.11	62.05	0.42	8.81	99.03	425	26	24	6	96	26	A9713299	A9713300
FX546572	2.08	3.84	0.28	0.04	0.09	65.82	0.44	5.84	99	535	30	12	6	84	26	A9713299	A9713300
FX546573	1.57	3.43	0.18	0.08	0.1	63.31	0.41	10.56	99.46	330	22	108	6	84	24	A9713299	A9713300
FX546574	2.57	3.09	0.09	0.75	0.09	67.06	0.43	7.33	99.56	360	42	40	8	105	32	A9713299	A9713300
FX546575	0.8	5.31	0.34	2.46	0.15	50.28	1.24	6.26	99.21	200	14	134	6	102	28	A9713299	A9713300
FX546576	2.19	3.33	0.08	0.65	0.08	68.44	0.38	7.47	99.25	350	36	40	8	96	22	A9713299	A9713300
FX546577	3.04	2.37	0.09	1.12	0.16	62.49	0.6	7.36	99.21	535	48	58	8	102	46	A9713299	A9713300
FX546578	1.57	2.22	0.16	0.82	0.1	70.09	0.37	6.85	99.18	330	32	44	6	75	22	A9713299	A9713300
FX546579	1.97	2.37	0.3	1.42	0.14	62.89	0.48	8.78	99.48	305	36	54	4	60	18	A9713299	A9713300
FX546580	2.14	3.38	0.24	1	0.13	61.06	0.49	9.78	99.69	345	34	48	6	66	26	A9713299	A9713300
FX546581	2.17	2.71	0.37	1.45	0.13	55.11	0.55	11.32	99.3	380	42	72	4	45	24	A9713299	A9713300
FX546582	1.62	1.65	0.19	1.89	0.08	68.03	0.39	6.72	99.04	285	30	58	6	78	24	A9713299	A9713300
FX546583	4.05	0.92	0.08	<.01	0.14	71.72	0.52	3.41	100.02	1085	58	18	12	78	24	A9717669	A9717670
FX546584	3.53	0.98	0.07	0.08	0.09	75.2	0.4	2.79	99.14	960	48	12	10	90	26	A9717669	A9717670
FX546585	3.01	1.85	0.07	0.02	0.08	75.12	0.4	2.56	99.81	915	44	6	10	87	28	A9717669	A9717670
FX546586	3.33	1.07	0.09	0.62	0.09	71.17	0.42	3.79	98.27	965	46	22	10	96	26	A9717669	A9717670
FX546587	0.49	3.51	0.13	4.65	0.14	59	0.56	4.69	99.18	775	8	252	6	87	16	A9717669	A9717670
FX546588	2.61	2.62	0.1	<.01	0.12	70.23	0.47	3.01	98.55	780	34	16	8	87	28	A9717669	A9717670
FX546589	2.75	2.53	0.27	0.07	0.13	69.76	0.46	3.51	99.31	910	42	36	8	93	28	A9717669	A9717670
FX546590	3.58	3.97	0.08	0.71	0.24	49.64	0.67	7.57	98.69	330	58	32	2	24	18	A9717669	A9717670
FX546591	1.87	1.68	0.05	2.46	0.08	69.77	0.3	3.45	99.64	195	32	36	10	117	30	A9717669	A9717670
FX546592	1.57	4.78	0.05	0.3	0.07	67.74	0.26	6.36	99.36	165	28	58	8	108	26	A9717669	A9717670
FX546593	2.15	3.58	0.07	0.31	0.06	63.62	0.32	9.04	98.82	190	32	146	8	108	26	A9717669	A9717670
FX546594	2.12	1.89	0.08	0.81	0.06	67.27	0.25	7.87	99.5	160	32	44	8	105	26	A9717669	A9717670
FX546595	1.6	5.02	0.16	2.11	0.17	54.02	0.89	1.96	99.4	445	56	224	12	171	26	A9717669	A9717670
FX546596	2.13	1.55	0.06	0.96	0.05	69.81	0.24	6.65	98.73	165	32	42	8	108	24	A9717669	A9717670
FX546597	1.81	1.73	0.06	1.3	0.07	68.14	0.25	7.28	99.87	145	28	46	8	102	26	A9717669	A9717670
FX546598	1.47	1.73	0.03	0.79	0.14	74.07	0.39	5.39	99.94	135	26	38	6	72	18	A9717669	A9717670
FX546599	1.14	3.38	0.1	0.01	0.07	63.28	0.27	8.39	98.92	90	18	46	<2	18	10	A9717669	A9717670
FX546600	2.83	1.62	0.1	0.23	0.04	67.52	0.21	6.19	98.39	240	42	42	8	123	24	A9717669	A9717670
FX546601	0.33	3.26	0.19	<.01	0.03	50.29	0.19	12.75	99.72	325	6	92	<2	24	8	A9718312	A9718313
FX546602	0.97	4.63	0.19	3.67	0.1	43.93	0.49	11.21	99.31	270	16	98	<2	33	8	A9718312	A9718313
FX546603	1.91	1.16	0.07	2.93	0.05	71.91	0.19	4.5	99.06	230	34	56	8	108	16	A9718312	A9718313
FX546604	2.75	1.16	0.06	0.24	0.05	74.55	0.17	5.08	98.92	295	48	44	6	99	14	A9718312	A9718313
FX546605	2.35	1.69	0.1	1.84	0.03	70.92	0.25	4.91	98.3	285	40	40	10	111	14	A9718312	A9718313
FX546606	2.41	2.02	0.15	0.29	0.09	72.13	0.36	5.12	98.78	315	44	22	8	84	22	A9718312	A9718313

ACNC SAMPLE #	XRF K2O %	XRF MgO %	XRF MnO %	XRF Na2O %	XRF P2O5 %	XRF SiO2 %	XRF TiO2 %	XRF LOI %	% TOTAL	ppm Ba	ppm Rb	ppm Sr	ppm Nb	ppm Zr	ppm Y	CHEMEX BATCH NUMBERS ICP9g	XRF A412
FX546607	2.6	1.77	0.24	0.8	0.11	62.37	0.41	7.46	98.06	685	42	54	8	87	26	A9718312	A9718313
FX546608	3.18	2.25	0.23	0.36	0.11	66.96	0.39	6.99	99.74	835	48	38	8	96	26	A9718312	A9718313
FX546609	2.8	2.28	0.18	1.3	0.11	65.55	0.37	7.23	99.66	670	48	32	8	87	26	A9718312	A9718313
FX546610	8.08	0.45	0.05	0.48	0.04	74.59	0.27	1.26	99.37	735	120	18	36	339	125	A9718312	A9718313
FX546611	2.56	2.37	0.2	1.49	0.1	64.63	0.38	7.76	99.16	565	38	32	8	87	22	A9718312	A9718313
FX546612	1.94	1.96	0.18	1.98	0.08	68.68	0.34	6.16	99.96	510	30	30	8	93	26	A9718312	A9718313
FX546613	1.66	2.41	0.2	2.02	0.09	69.08	0.38	3.97	99.88	580	26	26	8	99	28	A9718312	A9718313
FX546614	1.69	3.62	0.26	0.39	0.08	68.41	0.33	4.49	98.65	560	26	16	8	87	26	A9718312	A9718313
FX546615	1.72	4.42	0.4	0.01	0.08	61.7	0.24	10.19	99.44	470	28	94	4	60	20	A9718312	A9718313
FX546616	3.29	2.59	0.28	0.17	0.11	65.26	0.46	6.47	98.29	915	48	20	8	93	24	A9718312	A9718313
FX546617	1.98	3.44	0.42	0.05	0.08	69.12	0.36	4.58	98.76	495	28	14	8	87	30	A9718312	A9718313
FX546618	2.48	3	0.36	0.32	0.13	68.77	0.44	4.29	99.82	655	40	14	8	96	28	A9718312	A9718313
FX546619	1.93	2.84	0.41	1.3	0.11	67.77	0.46	4.28	99.68	505	30	18	8	99	26	A9718312	A9718313
FX546620	0.76	5.55	0.21	0.03	0.08	60.06	0.32	5.3	98.47	165	10	18	6	78	26	A9718312	A9718313
FX546621	2.42	1.87	0.15	3.17	0.13	61.71	0.4	7.21	99.38	540	36	68	4	78	16	A9718312	A9718313
FX546622	0.95	5.15	0.28	<.01	0.12	65.41	0.42	4.8	99.94	155	16	8	6	81	28	A9718312	A9718313
FX546623	2.12	1.8	0.19	1.59	0.11	68.1	0.43	4.77	99.82	255	36	26	6	90	26	A9718312	A9718313
FX546624	2.4	3.26	0.27	0.02	0.1	66.62	0.43	5.44	99.14	275	38	20	6	84	28	A9718312	A9718313
FX546625	1.82	3.55	0.31	0.28	0.1	66.07	0.42	4.59	98.97	220	30	18	8	90	28	A9718312	A9718313
FX546626	2.46	2.4	0.22	0.1	0.12	66.63	0.43	5.82	98.64	300	38	24	6	87	24	A9718312	A9718313
FX546627	2.93	2.29	0.19	0.02	0.13	67.52	0.47	5.01	99.52	345	42	24	6	90	22	A9718312	A9718313
FX546628	2.48	2.31	0.24	0.09	0.12	67.44	0.4	5.98	99.39	295	36	28	6	78	24	A9718312	A9718313

COPPER MOUNTAIN 1995
ACNC MAPPING PROGRAM

SAMPLE #	NORTHING	EASTING	G24 CU PPM	G24 PB PPM	G24 ZN PPM	G24 AG PPM	CXR AL2O3 %	CXR CAO %	CXR CR2O3 %	CXR FE2O3 %	CXR K2O %	CXR MGO %	CXR MNO %	CXR NA2O %	CXR P2O5 %	CXR SIO2 %	CXR TIO2 %	CXR LOI %	CXR TOTAL %	XRD NB PPM	XRD ZR PPM	XRD Y PPM	XRD SR PPM	XRD RB PPM	G24 BA PPM	G24 BE PPM	G24 BI PPM	G24 CD PPM	G24 CO PPM	G24 MO PPM	G24 NI PPM	G24 V PPM	G24 W PPM
264001	2985.00	3250.00	0.5	1	94	0.1	16.15	0.57	0.010	14.49	2.05	5.45	0.13	0.19	0.19	52.92	0.83	7.22	100.20	10	145	24	15	27	490	0.4	1	0.4	15.0	0.5	22.0	109	9
264002	3100.00	500.00	12.0	6	98	0.1	12.47	1.96	0.010	7.33	1.24	2.31	0.03	1.11	0.08	68.69	0.40	3.76	99.39	7	95	18	172	42	300	0.4	1	0.4	9.0	0.5	4.0	44	9
264003	2900.00	900.00	47.0	1	40	0.1	13.94	0.14	0.010	4.09	2.94	0.36	0.01	0.08	0.09	73.55	0.32	3.96	99.48	7	84	17	129	37	630	0.4	1	0.4	4.0	1.0	2.0	53	9
264004	3000.00	1300.00	107.0	1	76	0.1	17.35	8.60	0.030	9.65	0.71	6.72	0.16	4.32	0.13	43.02	0.60	8.78	100.07	4	21	9	193	19	100	0.4	1	0.4	33.0	0.5	27.0	223	9
264005	3000.00	1300.00	431.0	49500	2900	82.0	0.87	0.36	0.160	28.44	2.09	0.47	0.01	0.25	0.21	64.30	0.02	3.31	36.19	4	-99	8	29	49	30	0.4	1	0.4	0.5	51.0	3.0	19	9
264006	2940.00	1450.00	84.0	52	80	0.1	18.31	9.00	0.020	10.59	0.22	5.30	0.20	3.81	0.13	47.19	0.60	4.66	100.03	4	20	13	240	4	90	0.4	1	0.4	22.0	0.5	26.0	244	9
264007	2950.00	1850.00	7.0	108	52	0.1	12.45	0.36	0.005	5.08	3.14	2.20	0.03	0.84	0.10	70.73	0.30	4.30	99.53	7	89	24	18	43	560	0.4	1	0.4	4.0	0.5	1.0	12	9
264008	2900.00	2200.00	107.0	4	70	0.1	16.32	1.89	0.010	9.51	5.82	5.11	0.17	2.00	0.19	53.41	0.66	3.87	98.96	4	30	14	109	43	3430	0.4	1	0.4	25.0	0.5	17.0	230	9
264009	2900.00	2750.00	21.0	30	96	0.1	10.98	0.16	0.010	3.88	3.16	0.89	0.10	0.20	0.05	77.51	0.21	2.50	99.65	13	144	38	25	58	390	0.4	1	0.4	1.0	0.5	1.0	4	9
264010	10200.00	150.00	54.0	8	96	0.1	18.86	0.44	0.020	8.45	2.65	2.36	0.08	2.00	0.14	59.84	0.71	4.58	100.13	7	138	18	179	78	630	0.4	1	0.4	25.0	0.5	27.0	103	9
264011	10500.00	300.00	5.0	4	98	0.1	18.10	0.40	0.010	8.82	4.36	2.84	0.02	0.41	0.10	59.36	0.66	5.37	100.45	8	124	23	42	84	730	0.4	1	0.4	14.0	0.5	11.0	104	9
264012	10450.00	400.00	10.0	4	28	0.1	14.98	0.16	0.010	2.32	4.28	0.71	0.01	2.10	0.01	71.84	0.20	2.23	98.84	13	159	25	36	67	1220	0.4	1	0.4	2.0	0.5	0.5	8	9
264013	10500.00	750.00	20.0	8	34	0.1	15.74	0.36	0.010	3.16	2.28	1.23	0.03	1.46	0.08	70.84	0.31	3.52	99.02	7	87	10	168	37	430	0.4	1	0.4	5.0	0.5	3.0	52	9
264014	10500.00	850.00	26.0	12	40	0.1	12.51	0.27	0.010	4.34	4.73	0.61	0.20	0.11	0.08	72.84	0.27	2.93	98.90	8	80	17	83	51	1060	0.4	1	0.4	9.0	0.5	2.0	44	9
264015	10500.00	1400.00	93.0	20	92	0.1	18.24	9.65	0.020	12.15	0.09	6.67	0.16	0.73	0.14	46.74	0.66	4.41	99.66	4	20	10	393	4	20	0.4	1	0.4	21.0	0.5	32.0	251	9
264016	10550.00	1700.00	23.0	12	28	0.1	9.75	0.17	0.010	2.44	1.00	0.29	0.02	0.01	0.03	81.99	0.21	3.62	99.54	8	81	16	72	15	300	0.4	1	0.4	2.0	0.5	3.0	11	9
264017	10575.00	2000.00	112.0	1	72	0.1	17.18	4.98	0.010	9.78	0.85	4.41	0.15	6.15	0.16	50.39	0.50	5.25	99.81	4	19	10	117	6	200	0.4	1	0.4	21.0	0.5	6.0	256	9
264018	9100.00	1500.00	53.0	22	164	0.1	8.08	0.40	0.010	16.52	0.30	1.85	0.27	0.11	0.08	65.79	0.27	5.91	99.59	5	63	15	38	5	160	0.4	1	0.4	26.0	4.0	19.0	65	9
264019	10295.00	4540.00	2090.0	1	112	0.1	11.40	0.60	0.010	9.93	1.13	3.11	0.02	0.27	0.45	68.56	0.61	3.87	99.96	5	43	20	19	16	150	0.4	1	0.4	23.0	0.5	3.0	91	9
264020	10480.00	4060.00	34.0	18	262	0.1	8.78	0.13	0.010	1.23	2.42	0.19	0.01	0.26	0.06	84.02	0.15	1.61	98.86	9	90	17	19	24	380	0.4	1	0.4	1.0	0.5	1.0	2	9
264021	9740.00	3980.00	103.0	1	70	0.1	11.98	0.29	0.005	4.54	0.68	1.19	0.05	4.18	0.07	73.19	0.28	2.38	98.83	6	91	25	29	10	130	0.4	1	0.4	7.0	0.5	2.0	5	9
264022	9750.00	5600.00	52.0	50	1	0.4	14.67	0.17	0.010	0.45	3.79	0.37	0.01	0.43	0.17	76.59	0.46	2.51	99.62	8	99	17	16	46	360	0.4	1	0.5	1.0	4.0	0.5	55	9
264023	9750.00	4975.00	13500.0	40	350	21.4	0.87	0.03	0.030	10.35	0.36	0.11	0.01	0.09	0.13	85.71	0.01	2.43	100.13	4	13	6	4	4	10	0.4	1	5.0	32.0	1.0	9.0	8	9
264024	0.00	0.00	112.0	1	76	0.1	13.26	8.02	0.010	9.67	0.96	5.00	0.30	3.01	0.14	51.46	1.23	6.39	99.45	5	104	28	102	16	210	0.4	1	0.4	42.0	0.5	25.0	272	10
264025	7125.00	3400.00	23.0	8	4	0.1	8.76	0.16	0.010	1.18	1.03	0.20	0.01	3.03	0.02	83.88	0.13	1.23	99.64	7	89	16	24	13	230	0.4	1	0.4	1.0	0.5	2.0	2	9
264026	1500.00	4470.00	25.0	1	124	0.1	11.07	2.91	0.005	6.91	0.95	1.66	0.16	2.91	0.12	68.20	0.29	4.27	99.45	7	84	24	44	15	180	0.4	1	0.4	4.0	0.5	2.0	6	9
264027	1510.00	4350.00	2.0	1	170	0.1	13.97	0.35	0.005	5.64	1.64	0.63	0.10	1.63	0.12	70.34	0.40	4.91	99.73	7	105	28	25	25	370	0.4	1	0.4	4.0	0.5	2.0	9	9
264028	1470.00	4200.00	9.0	1	56	0.1	11.25	0.13	0.005	5.68	2.67	2.69	0.05	0.12	0.11	72.63	0.30	3.38	99.01	7	111	25	4	36	530	0.4	1	0.4	7.0	0.5	3.0	18	9
264029	1530.00	3950.00	1.0	1	30	0.1	12.59	0.05	0.010	1.92	3.02	2.71	0.02	0.19	0.11	76.40	0.16	2.89	23.67	8	115	18	7	44	320	0.4	1	0.4	3.0	0.5	2.0	7	9
264030	1500.00	3900.00	5.0	1	42	0.1	11.49	0.21	0.010	2.37	3.10	2.33	0.05	0.13	0.08	76.64	0.20	3.07	99.68	7	124	27	10	47	460	0.4	1	0.4	4.0	0.5	2.0	13	9
264031	1500.00	3530.00	0.5	1	74	0.1	12.25	0.21	0.005	5.90	2.31	5.10	0.01	0.16	0.10	70.08	0.38	4.01	100.51	7	97	27	7	32	240	0.4	1	0.4	3.0	0.5	1.0	7	9
264032	1500.00	3000.00	11.0	1	16	0.1	12.78	0.16	0.005	1.97	4.06	0.60	0.04	0.16	0.02	76.90	0.18	2.33	99.20	9	113	22	30	47	680	0.4	1	0.4	1.0	1.0	1.0	3	9
264033	1580.00	2580.00	0.5	1	54	0.1	11.51	0.36	0.005	3.84	0.33	0.21	0.02	6.12	0.06	75.85	0.24	1.19	99.73	8	105	35	68	4	100	0.4	1	0.4	1.0	0.5	2.0	0.5	9
264034	1500.00	2550.00	62.0	1	68	0.1	15.60	4.95	0.010	11.16	0.10	6.94	0.17	3.84	0.14	50.32	0.50	5.76	99.49	4	27	14	212	4	70	0.4	1	0.4	32.0	0.5	24.0	179	9
264035	750.00	2450.00	51.0	1	52	0.1	11.01	0.16	0.010	4.01	1.97	0.27	0.01	0.17	0.03	77.66	0.26	3.32	98.88	6	76	20	41	28	320	0.4	1	0.4	4.0	0.5	2.0	15	9
264036	1550.00	2000.00	89.0	1	80	0.1	18.43	7.82	0.010	10.70	0.43	3.41	0.16	4.21	0.17	51.57	0.63	2.84	100.38	4	30	13	191	7	90	0.4	1	0.4	17.0	0.5	7.0	229	10
264037	1500.00	1400.00	37.0	1	72	0.1	17.65	0.42	0.010	10.84	4.04	6.46	0.10	0.17	0.08	53.30	0.54	6.62	100.23	5	33	13	18	72	330	0.4	1	0.4	23.0	0.5	6.0	209	9
264038	1500.00	1200.00	12.0	1	20	0.1	10.76	0.31	0.010	3.45	3.03	1.75	0.04	0.16	0.06	76.56	0.26	2.70	99.09	7	83	22	11	37	600	0.4	1	0.4	4.0	0.5	2.0	10	9
264039	1500.00	970.00	23.0	1	90	0.1	12.72	0.27	0.010	5.91	0.81	0.22	0.06	0.11	0.08	74.18	0.31	5.23	99.91	10	94	24	90	11	370	0.4	1	0.4	6.0	0.5	3.0	9	9
264040	1500.00	690.00	92.0	1	66	0.1	18.78	8.42	0.040	11.42	0.07	6.17	0.14	1.24	0.13	47.44	0.64	4.79	99.28	4	21	9	447	4	30	0.4	1	0.4	22.0	0.5	29.0	250	10
264041	1500.00	500.00	19.0	1	40	0.1	13.66	1.07	0.020	4.34	4.24	1.87	0.03	2.06	0.10	68.27	0.29	3.10	99.05	7	84	23	76	47	900	0.4	1	0.4	7.0	0.5	4.0	46	9
264042	1500.00	400.00	36.0	10	98	0.1	17.43	4.84	0.030	8.46	1.62	3.36	0.06	0.63	0.12	58.89	0.38	4.08	99.90	7	107	21	372	20	470	0.4	1	0.4	8.0	0.5	1.0	78	10
264043	1300.00	210.00	14.0	4	32	0.1	14.43	0.25	0.010	4.16	1.96	0.31	0.04	0.18	0.10	73.89	0.32	4.67	100.32	6	87	21	170	26	570	0.4	1	0.4	5.0	1.0	3.0	60	9
264044	12000.00	2160.00	31.0	1	50	0.1	11.87	0.18	0.005	3.99	1.03	0.27	0.03	0.08	0.05	77.22	0.24	4.54	99.50	7	82	17	31	11	220	0.4	1	0.4	5.0	0.5	1.0	17	9
264045	12000.00	2000.00	64.0	4	92	0.1	19.20	6.09	0.010	9.65	0.76	2.67	0.09	5.37	0.18	51.47	0.61	3.50	99.60	4	28	14	212	5	240	0.4	1	0.4	8.0	0.5	9.0	255	10
264046	12000.00	1560.00	20.0	10	60	0.1	11.39	1.42	0.010	3.60	2.06	1.26	0.01	1.40	0.09	75.56	0.23	2.63	99.66	8	94	22	185	28	380	0.4	1	0.4	2.0	0.5	0.5	7	9
264047	12000.00	1370.00	110.0	1	72	0.1	15.29	6.88	0.010	9.33	1.33	5.09	0.13	1.43	0.12	51.19	0.51	8.07	99.38	5	40	16	138	15	380	0.4	1	0.4	29.0	0.5	18.0	195	10
264048	12000.00	1310.00	102.0	1	70	0.1	15.27	6.61	0.010	9.37	1.38	5.28	0.14	1.55	0.11	51.74	0.51	8.21	100.18	4	42	12	118	15	340	0.4	1	0.4	28.0	0.5	15.0	179	10
264049	12000.00	615.00	3.0	6	8	0.1	11.68	0.17	0.010	1.69	4.13	0.49	0.01	2.06	0.03	77.06	0.14	1.53	99.00	10	125	15	23	53	1230	0.4	1	0.4	1.0	0.5	1.0	3	9
264050	250.00	-300.00	72.0	26	74	0.1	18.09	0.39	0.005	3.81	1.73	1.82	0.02	2.02	0.14	68.55	0.47	3.78	100.82	8	87	15	231	50	340	0.4	1	0.4	4.0	0.5	1.0	40	9
264051	325.00	-200.00	24.0	6	92	0.1	18.07	1.13	0.005	6.80	4.01	2.20	0.17	3.42	0.26	58.99	0.78	3.23	99.06	12	185	30	213	93	1030	0.4	1	0.4	9.0	0.5	9.0	99	9
264052	300.00	-100.00	20.0	2	82	0.1	12.69	6.20	0.005	5.24	1.90	0.84	0.11	2.35	0.10	62.11	0.29	7.91	99.74	7	74	23	97	29	500	0.4	1	0.4	9.0	0.5	3.0	49	9

COPPER MOUNTAIN 1995
ACNC MAPPING PROGRAM

SAMPLE #	NORTHING	EASTING	G24 CU PPM	G24 PB PPM	G24 ZN PPM	G24 AG PPM	CXR AL2O3 %	CXR CAO %	CXR CR2O3 %	CXR FE2O3 %	CXR K2O %	CXR MGO %	CXR MNO %	CXR NA2O %	CXR P2O5 %	CXR SIO2 %	CXR TIO2 %	CXR LOI %	CXR TOTAL %	XRD NB PPM	XRD ZR PPM	XRD Y PPM	XRD SR PPM	XRD RB PPM	G24 BA PPM	G24 BE PPM	G24 BI PPM	G24 CD PPM	G24 CO PPM	G24 MO PPM	G24 NI PPM	G24 V PPM	G24 W PPM
264053	175.00	50.00	27.0	6	38	0.1	14.40	0.19	0.005	3.49	2.61	0.36	0.01	0.16	0.10	73.38	0.34	4.29	99.33	8	89	17	262	35	630	0.4	1	0.4	5.0	1.0	2.0	55	10
264054	200.00	275.00	89.0	1	70	0.1	17.81	2.61	0.020	12.64	1.00	5.53	0.12	4.47	0.12	51.00	0.65	4.14	100.11	4	22	8	189	23	190	0.4	1	0.4	26.0	0.5	22.0	259	10
264055	100.00	320.00	25.0	4	64	0.1	12.45	1.07	0.010	6.03	2.45	2.48	0.02	0.61	0.06	70.98	0.25	3.55	99.96	8	101	23	158	51	550	0.4	1	0.4	6.0	0.5	4.0	30	9
264056	10.00	880.00	15.0	1	40	0.1	12.34	0.18	0.005	3.95	3.97	0.72	0.01	0.12	0.07	74.60	0.30	2.81	99.06	7	86	19	26	53	920	0.4	1	0.4	2.0	0.5	0.5	12	9
264057	0.00	1200.00	13.0	2	56	0.1	12.81	0.17	0.005	4.08	4.00	1.09	0.01	0.16	0.12	73.35	0.29	2.71	98.79	7	90	22	16	55	720	0.4	1	0.4	2.0	0.5	0.5	9	9
264058	0.00	1500.00	112.0	1	76	0.1	18.73	6.21	0.010	10.62	0.63	3.08	0.15	5.39	0.17	51.25	0.56	2.84	99.64	4	24	13	187	5	140	0.4	1	0.4	24.0	0.5	8.0	257	10
264059	0.00	1800.00	8.0	2	6	0.1	3.52	0.16	0.010	1.51	0.93	0.66	0.01	0.14	0.04	90.74	0.11	0.97	98.79	4	16	10	4	10	120	0.4	1	0.4	4.0	0.5	3.0	46	9
264060	0.00	2450.00	3.0	1	1	0.1	8.32	0.18	0.010	1.35	0.93	0.24	0.01	2.93	0.02	83.98	0.11	1.20	99.27	8	92	21	52	16	270	0.4	1	0.4	0.5	0.5	2.0	1	9
264061	0.00	2750.00	608.0	1	56	0.1	16.26	1.26	0.010	12.36	1.18	0.94	0.14	2.97	0.30	55.62	0.73	7.69	99.46	4	62	22	81	15	270	0.4	1	0.4	20.0	0.5	8.0	171	9
264062	-10.00	2890.00	8.0	1	110	0.1	11.56	0.29	0.010	5.58	1.71	2.30	0.11	1.92	0.09	71.71	0.32	3.88	99.48	8	93	29	21	17	310	0.4	1	0.4	2.0	0.5	1.0	6	9
264063	0.00	3720.00	6.0	1	94	0.1	12.21	0.60	0.005	5.89	0.76	1.20	0.08	4.47	0.08	69.77	0.36	4.33	99.75	9	98	30	67	9	440	0.4	1	0.4	2.0	0.5	1.0	4	9
264064	0.00	3830.00	29.0	1	136	0.1	11.82	0.17	0.005	6.92	2.25	3.09	0.12	0.20	0.13	70.45	0.33	4.09	99.57	9	96	31	26	27	260	0.4	1	0.4	4.0	0.5	4.0	6	9
264065	0.00	0.00	98.0	1	94	0.1	13.49	8.53	0.005	11.52	0.73	5.86	0.35	2.37	0.14	49.89	1.24	6.15	100.27	4	102	29	147	14	170	0.4	1	0.4	42.0	0.5	26.0	275	9
264066	0.00	4120.00	19.0	1	50	0.1	11.44	0.13	0.005	6.07	2.20	2.39	0.06	0.14	0.08	73.38	0.28	3.65	99.82	8	105	26	4	28	640	0.4	1	0.4	4.0	1.0	1.0	3	9
264067	0.00	4360.00	2.0	4	1	0.1	10.27	0.03	0.020	1.11	2.86	0.60	0.01	0.15	0.09	82.80	0.11	1.79	17.04	8	112	27	7	37	770	0.4	1	0.4	0.5	0.5	2.0	4	9
264068	15.00	4750.00	0.5	1	42	0.1	11.48	0.30	0.005	8.75	2.18	2.74	0.08	0.15	0.13	69.12	0.42	4.01	99.36	7	84	28	10	26	710	0.4	1	0.4	7.0	0.5	4.0	6	9
264069	-1480.00	5020.00	2.0	1	18	0.1	12.29	0.22	0.010	3.16	3.28	1.89	0.03	0.60	0.04	74.94	0.21	3.12	99.79	8	105	22	9	45	830	0.4	1	0.4	6.0	0.5	2.0	20	9
264070	-1500.00	4800.00	0.5	1	96	0.1	17.02	3.27	0.005	13.74	0.12	6.44	0.32	3.40	0.12	47.07	0.67	7.76	99.93	4	20	12	135	4	110	0.4	1	0.4	32.0	0.5	25.0	281	10
264071	-1475.00	4630.00	2.0	1	48	0.1	12.54	0.18	0.010	7.78	1.88	4.59	0.08	0.15	0.09	68.11	0.29	4.34	100.04	8	84	20	5	27	650	0.4	1	0.4	12.0	0.5	7.0	69	9
264072	-1500.00	4200.00	41.0	1	104	0.1	14.27	1.65	0.005	14.95	0.15	6.26	0.20	2.85	0.38	51.85	1.20	5.97	99.73	4	41	24	59	4	110	0.4	1	0.4	36.0	0.5	14.0	355	10
264073	-1510.00	4080.00	0.5	1	16	0.1	10.69	0.13	0.005	4.59	2.64	1.71	0.01	0.14	0.29	75.57	0.16	3.29	99.22	6	102	16	6	33	940	0.4	1	0.4	4.0	0.5	1.0	4	9
264074	-1500.00	3650.00	1.0	4	104	0.1	11.26	0.21	0.010	5.64	1.92	4.18	0.09	0.18	0.11	71.99	0.33	4.13	100.05	7	93	29	12	29	200	0.4	1	0.4	2.0	0.5	1.0	8	9
264075	-1510.00	3050.00	6.0	1	62	0.1	14.83	0.17	0.005	6.66	3.69	1.05	0.13	0.29	0.10	68.77	0.45	3.63	99.77	7	118	34	32	46	380	0.4	1	0.4	4.0	2.0	1.0	6	9
264076	-1500.00	2700.00	221.0	130	1140	1.4	13.65	0.33	0.010	15.72	0.42	8.77	0.13	0.17	0.17	54.39	0.59	5.77	100.12	5	37	11	8	5	90	0.4	1	0.5	27.0	0.5	12.0	194	9
264077	-1480.00	2550.00	20.0	4	114	0.1	11.82	0.30	0.005	4.56	1.38	0.41	0.07	2.44	0.08	74.87	0.38	3.42	99.73	8	95	23	52	19	230	0.4	1	0.4	4.0	0.5	2.0	1	9
264078	-1460.00	2360.00	4.0	6	1	0.1	7.39	0.19	0.010	1.73	0.76	0.19	0.01	2.96	0.03	85.53	0.09	0.90	99.78	7	80	15	30	10	190	0.4	1	0.4	0.5	0.5	1.0	1	9
264079	-1485.00	2200.00	1.0	1	208	0.1	12.12	0.40	0.005	10.92	1.73	2.79	0.07	0.39	0.21	65.40	0.52	4.51	99.06	7	69	21	24	29	300	0.4	1	0.4	10.0	0.5	2.0	12	9
264080	0.00	0.00	0.5	4	8	0.1	10.62	0.64	0.030	2.31	7.65	0.64	0.02	0.51	0.03	76.06	0.26	1.13	99.90	26	316	129	18	109	700	0.4	1	0.4	2.0	3.0	4.0	15	9
264081	-1460.00	1820.00	85.0	1	72	0.1	17.38	5.81	0.010	10.45	0.46	4.87	0.19	4.25	0.21	51.32	0.64	4.43	100.02	4	36	15	270	5	200	0.4	1	0.4	25.0	0.5	15.0	234	10
264082	-1300.00	1400.00	8.0	4	58	0.1	11.89	0.50	0.005	4.53	1.96	1.80	0.07	2.46	0.07	73.00	0.25	2.77	99.30	10	97	32	61	24	540	0.4	1	0.4	3.0	0.5	0.5	7	9
264083	-1600.00	1400.00	123.0	1	82	0.1	18.14	2.88	0.005	11.29	1.19	5.35	0.18	5.03	0.13	51.40	0.58	3.68	99.85	4	20	10	107	17	380	0.4	1	0.5	25.0	0.5	7.0	266	9
264084	-1510.00	1300.00	8.0	1	64	0.1	12.17	0.81	0.005	4.88	1.98	1.57	0.06	2.99	0.11	72.03	0.29	2.31	99.20	6	90	25	133	24	530	0.4	1	0.4	4.0	0.5	3.0	9	9
264085	-300.00	-40.00	36.0	8	66	0.1	15.76	0.62	0.005	5.02	1.04	2.06	0.06	1.95	0.11	68.70	0.34	3.82	99.48	6	90	23	248	15	320	0.4	1	0.4	10.0	0.5	3.0	53	9
264086	13020.00	2625.00	70.0	10	54	0.1	12.40	0.22	0.005	4.55	1.41	0.35	0.04	1.99	0.03	74.46	0.25	3.59	99.29	8	88	19	39	20	240	0.4	1	0.4	8.0	1.0	0.5	15	9
264087	13020.00	2620.00	180.0	1	212	0.1	16.35	0.32	0.020	21.08	0.06	9.01	0.13	0.16	0.10	44.54	0.61	7.36	99.74	4	22	9	26	4	20	0.4	1	0.4	46.0	6.0	28.0	218	9
264088	13275.00	2680.00	3.0	1	132	0.1	14.05	0.38	0.005	11.99	0.69	6.49	0.14	0.29	0.22	58.93	0.70	5.83	99.71	4	38	17	23	14	130	0.4	1	0.4	21.0	0.5	0.5	87	9
264089	13400.00	3100.00	55.0	18	48	0.1	11.28	0.20	0.005	6.17	1.56	0.46	0.01	0.42	0.04	75.27	0.26	3.53	99.19	8	90	18	26	23	520	0.4	62	0.4	3.0	1.0	1.0	7	9
264090	13400.00	3100.00	19.0	1	222	0.1	16.14	0.42	0.030	23.26	0.46	6.48	0.12	0.15	0.14	43.89	0.60	8.43	100.12	4	18	10	17	6	150	0.4	1	0.4	28.0	0.5	27.0	204	9
264091	13300.00	3650.00	11.0	1	66	0.1	13.73	0.36	0.005	8.98	2.41	0.51	0.23	0.21	0.18	67.45	0.63	4.98	99.67	7	89	24	51	50	550	0.4	1	0.5	6.0	2.0	1.0	8	9
264092	13500.00	2520.00	90.0	1	138	0.1	18.98	0.56	0.010	11.72	1.82	5.86	0.19	2.38	0.21	51.58	0.76	5.45	99.52	4	36	20	51	30	610	0.4	1	0.4	31.0	0.5	15.0	248	9
264093	13530.00	1980.00	63.0	1	46	0.1	16.04	7.52	0.010	8.06	0.70	2.40	0.13	4.34	0.16	56.58	0.50	3.72	100.16	4	29	12	300	4	280	0.4	1	0.4	10.0	0.5	11.0	223	9
264094	13530.00	1977.00	128.0	1	110	0.1	18.35	5.10	0.010	14.59	0.65	5.15	0.23	4.51	0.23	45.02	0.88	5.29	100.01	4	43	17	214	8	230	0.4	1	0.5	20.0	0.5	12.0	264	9
264095	13500.00	1800.00	56.0	1	82	0.1	18.41	0.69	0.005	10.42	2.88	3.82	0.09	2.20	0.15	54.65	0.62	6.16	100.09	5	39	13	84	56	510	0.5	8	0.4	22.0	0.5	7.0	230	20
264096	13500.00	1770.00	10.0	1	42	0.1	12.31	0.20	0.005	3.13	3.05	0.52	0.04	0.93	0.06	75.50	0.29	2.81	98.84	8	99	25	25	45	730	0.5	4	0.4	3.0	0.5	2.0	11	9
264097	13500.00	1000.00	35.0	4	80	0.1	15.05	0.89	0.005	6.24	1.84	2.09	0.05	3.50	0.12	65.59	0.31	3.23	98.91	8	89	24	107	23	310	0.5	2	0.4	12.0	0.5	1.0	46	10
264098	13500.00	450.00	8.0	6	30	0.1	11.11	0.15	0.005	2.26	3.63	0.56	0.01	1.48	0.02	77.85	0.14	1.76	98.96	10	120	33	24	61	980	0.4	1	0.4	2.0	0.5	1.0	6	9
264099	13500.00	250.00	11.0	8	92	0.1	15.11	1.57	0.005	5.01	1.92	3.17	0.02	1.38	0.13	67.45	0.35	4.12	100.23	8	88	20	126	37	490	0.4	1	0.4	10.0	0.5	5.0	64	9
264100	0.00	0.00	4.0	4	28	0.1	10.64	0.69	0.020	2.79	7.80	0.71	0.03	0.57	0.02	74.08	0.24	1.23	98.82	27	314	133	27	107	670	0.4	1	0.4	3.0	2.0	4.0	13	9
264101	12000.00	360.00	27.0	8	58	0.1	13.54	3.95	0.005	5.32	0.61	1.60	0.07	1.55	0.13	70.21	0.29	2.50	99.77	6	81	21	236	7	120	0.4	1	0.4	5.0	0.5	2.0	48	9
264102	12000.00	110.00	4.0	6	30	0.1	11.97	0.16	0.005	2.08	3.26	0.39	0.01	1.08	0.02	77.93	0.14	2.01	99.04	10	134	19	31	51	880	0.4	1	0.4	2.0	0.5	3.0	3	9
264103	14100.00	2560.00	23000.0	4	10	31.0	4.05	0.13	0.040	2.38	0.36	0.73	0.03	0.30	0.16	89.84	0.06	1.64	99.72	4	12	4	25	4	20	0.4	1	0.4	4.0	1.0	2.0	42	9
264104	14210.00	2490.00	69.0	6	78	0.1	16.67	2.36	0.010	6.91	2.45	3.05	0.04	1.72	0.12	62.21	0.38	3.93	99.85	8	101	23	169	28	400	0.4	1	0.4	8.0	0.5	2.0	56	9

COPPER MOUNTAIN 1995
ACNC MAPPING PROGRAM

SAMPLE #	NORTHING	EASTING	G24 CU PPM	G24 PB PPM	G24 ZN PPM	G24 AG PPM	CXR AL2O3 %	CXR CAO %	CXR CR2O3 %	CXR FE2O3 %	CXR K2O %	CXR MGO %	CXR MNO %	CXR NA2O %	CXR P2O5 %	CXR SIO2 %	CXR TIO2 %	CXR LOI %	CXR TOTAL %	XRD NB PPM	XRD ZR PPM	XRD Y PPM	XRD SR PPM	XRD RB PPM	G24 BA PPM	G24 BE PPM	G24 BI PPM	G24 CD PPM	G24 CO PPM	G24 MO PPM	G24 NI PPM	G24 V PPM	G24 W PPM
264105	14725.00	1600.00	129.0	1	68	0.1	17.31	8.48	0.005	7.80	1.31	4.37	0.18	5.85	0.12	45.57	0.44	8.74	100.17	4	20	6	198	18	300	0.4	1	0.5	23.0	0.5	12.0	140	9
264106	14550.00	1150.00	83.0	1	110	0.1	18.58	2.52	0.005	10.23	0.40	4.41	0.23	6.15	0.15	51.08	0.56	5.20	99.51	4	27	15	99	7	230	0.4	1	0.5	25.0	0.5	7.0	162	9
264107	14520.00	700.00	14.0	12	30	0.1	11.83	0.23	0.010	1.57	2.84	0.50	0.01	1.74	0.03	77.91	0.15	2.12	98.93	10	130	16	51	41	700	0.4	1	0.4	2.0	1.0	3.0	3	9
264108	14510.00	410.00	16.0	12	82	0.1	13.15	2.33	0.005	5.00	1.03	2.32	0.03	2.16	0.11	69.48	0.30	2.88	98.79	7	81	19	206	17	370	0.4	1	0.4	9.0	0.5	3.0	55	9
264109	16150.00	150.00	3.0	8	38	0.1	9.99	0.19	0.010	1.98	1.41	0.30	0.01	1.87	0.01	81.07	0.12	2.02	98.97	9	107	26	91	21	180	0.4	1	0.4	1.0	0.5	1.0	1	9
264110	16620.00	430.00	84.0	6	62	0.1	14.17	4.37	0.010	4.92	0.28	1.66	0.06	3.28	0.14	67.17	0.31	3.25	99.52	7	83	17	196	5	130	0.4	1	0.4	9.0	0.5	4.0	55	9
264111	9625.00	2700.00	165.0	1	98	0.1	17.40	1.18	0.010	11.06	0.40	5.57	0.18	5.35	0.25	53.21	0.76	4.50	99.87	4	39	18	47	4	130	0.4	1	0.4	29.0	0.5	15.0	214	9
264112	9720.00	2940.00	16.0	6	40	0.1	13.01	0.56	0.010	3.69	1.97	2.71	0.04	1.55	0.07	72.19	0.23	3.55	99.58	9	120	24	74	33	420	0.4	1	0.4	7.0	0.5	3.0	24	9
264113	9470.00	3080.00	3.0	2	30	0.1	12.13	0.23	0.010	3.64	1.66	0.40	0.04	1.62	0.06	75.70	0.21	3.51	99.21	9	112	23	41	22	420	0.4	1	0.4	6.0	0.5	2.0	22	9
264114	9490.00	3320.00	3.0	4	38	0.1	8.02	0.14	0.010	8.25	0.86	2.28	0.04	0.19	0.12	76.71	0.21	2.82	99.65	6	67	20	8	9	490	0.4	1	0.4	6.0	0.5	1.0	3	9
264115	9500.00	3590.00	58.0	2	56	0.1	12.11	0.25	0.005	5.65	2.01	0.30	0.09	2.86	0.08	73.13	0.39	2.72	99.59	6	88	30	56	25	820	0.4	1	0.4	3.0	0.5	3.0	0.5	9
264116	9560.00	3860.00	904.0	2	120	0.6	8.61	0.25	0.010	7.91	1.33	0.23	0.03	0.43	0.12	77.06	0.42	2.59	98.99	4	42	13	32	27	210	0.4	1	0.4	16.0	0.5	5.0	207	9
264117	9520.00	4020.00	189.0	1	80	0.1	16.98	9.06	0.010	8.12	0.23	4.97	0.13	5.88	0.13	44.85	0.52	9.46	100.34	4	19	11	130	4	80	0.4	1	0.5	43.0	0.5	34.0	255	9
264118	0.00	0.00	63.0	1	104	0.1	16.08	4.85	0.005	12.65	0.29	4.63	0.21	5.79	0.20	50.21	1.14	3.39	99.44	4	50	24	52	4	50	0.4	1	0.5	25.0	0.5	15.0	331	9
264119	9550.00	4180.00	13.0	4	26	0.1	8.62	0.25	0.010	2.00	2.32	0.25	0.02	0.27	0.03	84.03	0.15	1.72	99.57	6	83	16	14	31	330	0.4	1	0.4	4.0	0.5	3.0	13	9
264120	9480.00	4765.00	0.5	1	122	0.1	13.52	0.35	0.010	14.46	1.01	4.12	0.01	0.22	0.30	60.21	0.63	5.00	99.83	5	44	19	22	15	230	0.4	1	0.5	12.0	0.5	4.0	231	9
264121	9640.00	4600.00	16.0	1	118	0.1	17.65	0.37	0.010	12.10	0.79	8.97	0.04	0.15	0.19	51.79	0.88	7.40	100.34	4	36	12	10	12	200	0.4	4	0.4	28.0	0.5	4.0	342	10
264122	9420.00	4840.00	79400.0	64	4	7.6	7.30	0.04	0.010	9.60	0.77	2.11	0.01	0.13	0.28	64.85	0.37	6.90	92.37	4	29	9	38	9	60	0.4	1	0.4	23.0	5.0	3.0	103	9
264123	9250.00	4400.00	506.0	14	58	0.1	10.17	0.14	0.010	1.27	1.56	2.15	0.01	0.19	0.04	80.36	0.17	2.73	98.79	7	98	17	14	23	180	0.4	4	0.4	2.0	0.5	2.0	6	9
264124	9230.00	3390.00	53.0	4	20	0.1	8.89	0.15	0.005	3.31	1.64	1.43	0.01	0.27	0.04	80.66	0.21	2.52	99.12	7	83	16	18	22	750	0.4	6	0.4	4.0	0.5	0.5	4	9
264125	9500.00	5770.00	55.0	1	206	0.1	15.43	0.23	0.020	20.45	0.14	8.79	0.07	0.17	0.11	46.64	0.52	7.30	99.87	4	18	8	7	4	20	0.4	1	0.4	26.0	3.0	22.0	248	20
264126	13460.00	0.00	29.0	8	20	0.1	10.38	0.22	0.010	1.21	1.06	0.21	0.01	3.62	0.04	81.41	0.12	1.23	99.51	10	113	16	86	18	410	0.5	4	0.4	2.0	0.5	3.0	4	9
264127	13450.00	-200.00	87.0	14	130	0.1	19.10	0.55	0.020	10.96	3.60	2.92	0.10	1.23	0.21	54.83	1.01	5.63	100.16	10	151	19	72	91	680	1.0	14	0.4	26.0	0.5	59.0	150	10
264128	11800.00	4450.00	34.0	14	684	0.1	10.86	0.33	0.005	4.85	2.15	0.29	0.30	0.32	0.08	76.55	0.33	3.19	99.25	7	84	34	37	26	320	0.5	4	1.0	6.0	2.0	3.0	7	9
264129	12600.00	2900.00	29.0	2	40	0.1	11.60	0.15	0.005	4.55	1.94	0.31	0.01	0.36	0.04	76.55	0.28	3.44	99.22	7	93	20	37	29	540	0.5	6	0.4	8.0	2.0	4.0	26	9
264130	13000.00	4700.00	39.0	12	28	0.1	6.91	0.15	0.010	1.19	1.10	0.18	0.01	0.70	0.02	87.20	0.15	1.40	99.01	5	72	17	40	17	230	0.5	1	0.4	1.0	1.0	1.0	6	9
264131	13000.00	5000.00	22.0	10	82	0.1-	10.61	0.22	0.010	2.23	2.12	0.57	0.01	1.42	0.06	79.39	0.23	2.34	99.20	8	81	23	24	32	460	0.5	1	0.4	2.0	1.0	2.0	2	9
264132	13750.00	5000.00	19.0	6	138	0.1	10.33	0.89	0.005	4.57	2.14	0.28	0.08	0.72	0.04	77.11	0.22	3.10	99.48	7	93	34	55	48	390	0.5	1	0.4	1.0	1.0	1.0	0.5	9
264133	14350.00	5075.00	17.0	10	22	0.1	8.68	0.17	0.010	1.17	0.71	0.17	0.02	3.26	0.03	84.46	0.19	1.00	99.87	7	85	19	31	13	150	0.4	1	0.4	2.0	1.0	3.0	3	9
264134	14250.00	4800.00	70.0	1	82	0.1	14.56	15.73	0.005	6.20	0.64	2.54	0.15	5.28	0.25	40.38	0.49	14.78	101.01	4	22	11	89	8	70	0.4	2	0.4	22.0	0.5	33.0	159	10
264135	0.00	0.00	126.0	1	104	0.1	13.31	8.31	0.005	11.37	0.77	5.69	0.34	2.32	0.14	49.23	1.23	6.28	98.99	4	102	29	146	14	170	0.4	6	0.4	44.0	0.5	27.0	280	30
264136	14200.00	3400.00	21.0	6	34	0.1	13.36	0.19	0.010	4.54	1.70	0.27	0.04	1.84	0.07	73.59	0.27	3.32	99.20	8	93	17	67	24	480	0.5	2	0.4	6.0	0.5	2.0	18	9
264137	14000.00	3000.00	16000.0	186	568	2.4	18.46	0.45	0.010	22.18	0.60	7.71	0.38	0.09	0.19	40.45	0.74	7.62	98.88	4	32	13	12	10	240	0.4	10	0.5	69.0	0.5	32.0	280	30
264138	14900.00	3100.00	1240.0	396	2680	0.1	18.26	0.44	0.010	17.20	0.63	7.57	0.57	2.04	0.23	46.48	0.78	6.01	100.22	4	37	23	30	10	150	0.4	4	0.4	37.0	7.0	17.0	240	20
264139	15610.00	3910.00	98.0	8	46	0.1	11.34	0.13	0.010	5.07	1.54	0.18	0.01	1.09	0.04	77.94	0.24	2.47	100.05	9	95	31	49	20	690	0.0	2	0.4	3.0	1.0	0.5	4	9
264140	7500.00	3700.00	34.0	10	46	0.1	9.36	0.11	0.030	1.12	2.37	0.76	0.01	0.27	0.12	83.20	0.11	1.81	16.07	7	85	23	65	32	310	0.5	4	0.4	2.0	0.5	1.0	3	9
264141	7125.00	3820.00	1005.0	26	790	0.1	22.87	0.15	0.005	23.77	0.23	13.85	0.08	0.23	0.04	28.88	0.42	9.63	100.15	10	199	37	4	4	60	0.5	1	0.5	11.0	0.5	1.0	23	40
264142	7250.00	3795.00	4020.0	2	86	0.1	11.86	0.04	0.020	2.87	2.78	1.35	0.01	0.26	0.09	77.80	0.18	2.35	21.81	7	106	21	14	44	200	0.5	4	0.4	3.0	0.5	1.0	2	9
264143	7500.00	4000.00	59.0	4	122	0.1	9.70	0.13	0.010	2.96	1.76	2.04	0.01	0.19	0.07	80.69	0.13	2.53	100.22	5	85	16	7	27	260	0.5	6	0.4	3.0	0.5	3.0	6	9
264144	8170.00	4100.00	23.0	1	130	0.1	13.78	0.32	0.005	8.57	1.06	8.10	0.02	0.18	0.21	62.13	0.49	5.20	100.06	7	79	24	21	20	110	0.5	8	0.4	17.0	4.0	7.0	18	10
264145	7735.00	4150.00	103.0	62	634	0.1	14.33	0.15	0.040	9.08	1.57	7.11	0.08	0.18	0.08	61.40	0.35	5.05	99.42	5	61	15	10	22	130	0.5	2	0.4	12.0	2.0	31.0	143	20
264146	7700.00	3580.00	12.0	4	134	0.1	12.80	0.17	0.005	6.14	1.90	1.48	0.06	0.87	0.11	72.33	0.38	3.08	99.32	7	97	20	55	27	250	1.0	2	0.4	3.0	4.0	4.0	1	9
264147	7760.00	2800.00	109.0	1	100	0.1	15.65	0.75	0.010	14.89	0.92	4.49	0.19	2.62	0.17	52.68	0.82	6.89	100.08	4	21	15	108	11	200	0.4	6	0.4	36.0	0.5	7.0	339	20
264148	6750.00	2600.00	580.0	1	128	0.1	9.71	0.21	0.010	9.82	1.37	1.86	0.09	0.16	0.10	73.55	0.23	2.88	99.99	6	59	12	9	20	360	0.4	6	0.4	19.0	2.0	4.0	56	10
264149	6800.00	2850.00	59.0	1	128	0.1	12.05	0.23	0.005	5.45	2.34	0.35	0.04	0.38	0.11	75.05	0.38	3.38	99.76	7	87	27	25	44	370	0.5	2	0.4	3.0	1.0	2.0	7	9
264150	15500.00	3850.00	12800.0	76	1345	5.2	14.59	0.39	0.020	29.29	0.55	3.19	0.36	0.45	0.16	42.59	0.58	6.76	98.93	4	18	9	41	13	140	0.5	16	3.0	39.0	3.0	18.0	284	10
264151	15550.00	3750.00	1045.0	50	318	0.4	20.48	0.31	0.010	32.53	0.09	8.92	0.44	0.21	0.20	27.62	0.77	8.18	99.76	6	90	31	4	4	40	0.5	24	2.5	58.0	73.0	9.0	149	9
264152	15545.00	3745.00	2330.0	1	240	0.6	15.11	0.21	0.010	24.53	0.07	6.57	0.45	0.17	0.13	44.83	0.54	6.38	99.00	4	69	13	4	7	40	0.5	20	1.5	29.0	12.0	5.0	91	9
264153	9235.00	5780.00	493.0	16	630	0.8	6.07	0.13	0.005	8.85	0.07	4.63	0.31	0.06	0.09	75.05	0.24	3.44	98.94	5	69	13	8	4	20	0.4	10	2.0	25.0	0.5	12.0	49	9
264154	0.00	0.00	8.0	4	28	0.1	10.64	0.68	0.020	2.82	7.80	0.70	0.04	0.53	0.02	74.09	0.25	1.24	98.83	26	306	134	22	103	670	1.5	4	0.4	2.0	2.0	5.0	12	9
264155	7840.00	5550.00	139.0	18	538	0.2	16.25	0.33	0.010	14.58	1.87	4.00	0.03	0.41	0.14	56.41	0.58	5.42	100.03	4	45	14	17	33	170	1.0	14	1.5	66.0	1.0	65.0	213	9
264156	7950.00	5690.00	734.0	10	660	0.1	10.26	0.14	0.005	5.24	1.83	2.76	0.01	0.29	0.08	75.69	0.19	3.09	99.57	8	112	31	19	28	250	1.0	8	0.5	2.0	0.5	2.0	3	9

COPPER MOUNTAIN 1995
ACNC MAPPING PROGRAM

SAMPLE #	NORTHING	EASTING	G24 CU PPM	G24 PB PPM	G24 ZN PPM	G24 AG PPM	CXR AL2O3 %	CXR CAO %	CXR CR2O3 %	CXR FE2O3 %	CXR K2O %	CXR MGO %	CXR MNO %	CXR NA2O %	CXR P2O5 %	CXR SIO2 %	CXR TIO2 %	CXR LOI %	CXR TOTAL %	XRD NB PPM	XRD ZR PPM	XRD Y PPM	XRD SR PPM	XRD RB PPM	G24 BA PPM	G24 BE PPM	G24 BI PPM	G24 CD PPM	G24 CO PPM	G24 MO PPM	G24 NI PPM	G24 V PPM	G24 W PPM
264157	8025.00	5250.00	41.0	6	104	0.1	10.98	0.20	0.005	4.11	2.02	0.40	0.02	0.59	0.03	77.33	0.19	2.99	98.86	8	117	34	30	32	280	0.5	6	0.4	3.0	0.5	0.5	4	9
264158	4900.00	7600.00	151.0	1	230	0.1	12.40	0.48	0.005	4.66	1.55	0.18	0.09	2.52	0.07	74.55	0.25	2.75	99.50	5	107	30	53	22	320	0.5	2	0.5	3.0	0.5	3.0	1	9
264159	4700.00	7750.00	346.0	1	1025	0.1	12.18	0.20	0.005	9.63	1.32	3.79	0.07	0.23	0.12	68.02	0.43	3.76	99.75	7	79	19	11	16	340	0.5	14	3.5	10.0	0.5	3.0	2	9
264160	8030.00	3750.00	17.0	6	20	0.1	7.62	0.16	0.005	0.79	1.84	0.28	0.01	0.26	0.02	86.81	0.11	1.52	99.41	6	80	32	18	28	260	0.5	2	0.4	1.0	0.5	0.5	1	9
264161	8750.00	3230.00	6.0	1	36	0.1	7.97	0.15	0.005	8.08	0.65	0.38	0.02	0.12	0.02	77.93	0.21	3.82	99.35	8	80	18	26	6	330	0.4	6	0.5	9.0	0.5	0.5	14	9
264162	8750.00	3690.00	45.0	6	18	0.1	10.12	0.13	0.005	1.12	2.17	0.25	0.01	0.64	0.02	82.40	0.17	1.82	98.84	7	93	19	69	39	300	0.5	2	0.4	1.0	0.5	2.0	2	9
264163	8920.00	3970.00	7.0	1	102	0.1	17.62	5.10	0.010	11.59	0.12	7.22	0.18	5.26	0.13	43.64	0.53	8.69	100.09	4	20	7	78	4	120	0.4	1	0.5	40.0	0.5	35.0	259	10
264164	8700.00	3270.00	6.0	1	22	0.1	10.88	0.22	0.005	3.14	0.55	0.34	0.02	2.84	0.03	78.39	0.24	2.82	99.47	9	97	34	54	4	230	0.5	4	0.4	3.0	0.5	2.0	0.5	9
264165	8770.00	4430.00	1.0	1	2	0.1	0.67	0.17	0.020	0.54	0.11	0.22	0.01	0.07	0.01	96.84	0.07	0.24	98.95	4	70	5	4	4	9	0.4	1	0.4	1.0	0.5	3.0	9	9
264166	8850.00	4750.00	10.0	1	224	0.1	11.69	0.18	0.005	11.08	0.60	4.58	0.08	0.17	0.08	66.07	0.57	5.03	100.13	5	43	13	8	12	110	0.4	14	1.0	14.0	0.5	7.0	110	9
264167	8900.00	5660.00	227.0	1	344	0.1	18.31	0.31	0.010	13.82	0.16	13.76	0.09	0.11	0.14	44.25	0.63	8.48	100.07	5	26	10	6	4	40	0.4	2	0.5	19.0	0.5	26.0	298	9
264168	9150.00	5800.00	79.0	4	26	0.1	12.48	0.17	0.005	5.96	1.08	0.42	0.01	0.40	0.04	73.51	0.24	4.76	99.06	8	102	27	62	11	140	0.5	8	0.4	1.0	0.5	0.5	0.5	9
264169	9000.00	5900.00	3.0	1	82	0.1	12.39	0.18	0.005	4.69	0.84	0.20	0.01	0.13	0.04	75.63	0.30	4.90	99.31	7	93	24	32	14	180	0.5	4	0.4	2.0	0.5	1.0	0.5	9
264170	8800.00	5700.00	19.0	12	22	0.1	7.86	0.26	0.010	3.58	1.09	0.51	0.01	0.70	0.03	82.60	0.24	2.66	99.54	9	119	35	53	14	440	0.4	4	0.4	0.5	1.0	0.5	0.5	9
264171	8820.00	5600.00	14.0	4	34	0.1	10.83	0.29	0.010	1.51	1.22	0.18	0.01	3.56	0.07	79.70	0.21	1.47	99.05	8	98	22	36	16	300	0.5	2	0.4	0.5	0.5	0.5	0.5	9
264172	8750.00	5250.00	5760.0	2	260	0.6	12.38	0.29	0.005	11.91	0.25	7.12	0.01	0.01	0.27	61.57	0.65	5.61	100.07	5	47	19	4	4	40	0.4	16	0.4	14.0	0.5	4.0	125	9
264173	0.00	0.00	31.0	1	62	0.1	13.71	2.99	0.005	6.43	0.59	1.97	0.13	5.67	0.14	65.17	0.59	1.63	99.02	6	110	34	160	4	220	0.5	1	0.4	10.0	3.0	20.0	123	9
264174	8200.00	5660.00	212.0	3200	82	9.4	10.62	0.20	0.005	3.44	2.31	0.35	0.01	1.80	0.08	74.98	0.50	4.68	98.96	8	151	33	58	43	270	0.5	2	1.0	0.5	2.0	1.0	2	9
264175	8300.00	6100.00	14.0	12	68	0.1	12.78	0.17	0.005	5.91	1.51	3.79	0.02	0.25	0.10	70.13	0.32	4.69	99.67	8	91	31	16	17	180	0.5	12	0.4	4.0	0.5	0.5	2	9
264176	8650.00	5360.00	10.0	2	84	0.1	12.42	1.34	0.010	5.73	2.36	2.46	0.05	0.81	0.09	67.15	0.31	6.80	99.53	7	91	30	68	33	330	0.5	2	0.4	2.0	0.5	1.0	1	9
264177	8630.00	5150.00	14500.0	42	252	4.8	10.92	0.18	0.005	13.83	1.01	0.34	0.03	0.19	0.15	66.01	0.53	6.00	99.19	4	41	16	20	11	100	0.5	12	2.0	33.0	4.0	2.0	197	9
264178	8475.00	5175.00	59.0	2	78	0.1	22.32	0.36	0.005	14.75	3.64	6.64	0.01	0.56	0.15	44.05	1.08	6.45	100.00	4	28	15	36	61	360	0.5	16	0.4	22.0	0.5	10.0	355	9
264179	8315.00	5340.00	68.0	4	52	0.1	10.16	0.15	0.005	1.10	2.01	0.23	0.01	0.67	0.03	82.77	0.19	1.83	99.14	9	115	21	38	32	260	0.5	1	0.4	1.0	0.5	1.0	1	9
264180	8325.00	5085.00	22.0	10	22	0.1	9.76	0.16	0.010	1.20	1.75	1.30	0.01	0.65	0.04	81.69	0.20	2.18	98.94	9	110	23	36	27	550	0.5	6	0.4	1.0	0.5	0.5	4	9
264181	8600.00	5150.00	492.0	10	120	0.6	11.54	0.19	0.005	13.08	0.59	4.52	0.03	0.16	0.14	64.93	0.56	4.23	99.97	4	42	18	15	7	110	0.4	12	1.0	25.0	0.5	3.0	245	9
264182	8300.00	4820.00	110.0	1	148	0.1	10.74	0.16	0.005	4.91	1.33	0.39	0.01	0.85	0.05	77.58	0.31	3.09	99.41	7	90	25	33	18	190	0.4	4	0.5	4.0	0.5	0.5	1	9
264183	8275.00	4260.00	127.0	10	1690	0.1	14.88	0.19	0.040	10.55	1.33	8.51	0.21	0.27	0.08	56.94	0.36	5.80	99.16	5	57	17	12	14	220	0.5	14	0.5	13.0	0.5	38.0	133	9
264184	8275.00	4330.00	76.0	1	42	0.1	10.74	0.14	0.005	4.89	1.98	2.28	0.02	0.18	0.09	75.73	0.33	2.68	99.06	7	86	24	4	25	360	0.4	10	0.4	1.0	1.0	0.5	0.5	9
264185	8275.00	3870.00	28.0	4	28	0.1	9.47	0.29	0.005	0.98	1.20	0.29	0.01	1.07	0.03	83.83	0.14	2.11	99.41	7	95	19	65	17	240	0.5	4	0.4	4.0	0.5	3.0	22	9
264186	8260.00	3025.00	18.0	1	130	0.1	15.01	0.27	0.020	21.05	0.66	7.02	0.22	0.16	0.15	48.78	0.63	6.35	100.32	4	19	14	8	8	130	1.0	26	1.5	36.0	0.5	24.0	243	9
264187	8100.00	2850.00	12100.0	1	280	4.6	14.93	0.32	0.090	20.32	0.14	8.93	0.39	0.07	0.13	46.69	0.66	6.74	99.41	4	18	11	4	4	30	0.5	38	1.0	35.0	0.5	21.0	263	9
264188	8150.00	5025.00	67.0	1	42	0.1	12.15	0.54	0.005	2.29	1.24	0.21	0.04	3.56	0.06	76.38	0.24	2.14	98.85	10	109	26	40	18	200	0.5	6	0.4	4.0	0.5	1.0	2	9
264189	8100.00	4600.00	363.0	4	230	0.4	11.70	0.20	0.005	6.09	1.60	2.55	0.06	0.16	0.17	73.35	0.40	3.79	100.07	7	86	24	15	20	440	0.5	10	0.4	3.0	1.0	2.0	2	9
264190	8100.00	4400.00	306.0	10	254	0.8	11.51	0.18	0.005	5.84	1.75	2.24	0.04	0.14	0.14	73.59	0.39	3.54	99.36	9	87	26	12	20	490	0.5	16	0.4	3.0	1.0	2.0	2	9
264191	8150.00	4030.00	20.0	80	112	0.1	7.57	0.13	0.010	1.17	1.70	0.48	0.01	0.36	0.06	85.80	0.12	1.45	98.85	7	71	16	22	29	160	0.5	2	0.4	1.0	2.0	3.0	2	9
264192	0.00	0.00	31.0	1	20	0.1	7.18	0.14	0.005	11.41	1.65	0.22	0.01	0.37	0.08	75.17	0.32	2.76	99.30	4	94	12	24	17	1130	0.5	6	1.0	1.0	15.0	9.0	15	9
264193	7400.00	3320.00	4.0	1	28	0.1	8.65	0.28	0.005	1.92	1.43	0.38	0.06	1.64	0.02	82.78	0.12	1.73	99.01	7	84	18	29	24	250	0.5	2	0.4	3.0	0.5	4.0	4	9
264194	7100.00	3950.00	50.0	1	84	0.1	11.00	0.13	0.005	5.60	2.03	1.95	0.03	0.19	0.09	75.01	0.33	3.15	99.51	7	86	21	11	28	590	0.5	10	0.4	3.0	1.0	2.0	0.5	9
264195	7400.00	4280.00	4850.0	1	188	0.1	21.59	0.20	0.005	21.71	0.10	16.22	0.16	0.13	0.16	29.09	0.64	10.09	100.09	9	139	40	4	4	30	1.0	2	1.5	18.0	0.5	2.0	13	9
264196	7400.00	4277.00	188.0	1	72	0.1	11.25	0.14	0.005	6.66	1.40	4.67	0.06	0.13	0.07	70.83	0.31	3.65	99.17	7	84	31	7	16	280	0.5	14	0.4	3.0	0.5	2.0	3	9
264197	7050.00	4420.00	62.0	1	104	0.1	11.11	0.13	0.010	2.93	3.00	0.51	0.01	0.17	0.05	79.20	0.33	2.31	99.75	8	90	22	6	42	810	0.5	8	0.4	0.5	1.0	1.0	1	9
264198	7400.00	4570.00	11800.0	1	86	0.1	6.78	0.13	0.010	12.34	0.09	2.38	0.03	0.01	0.04	73.67	0.33	3.82	99.62	4	40	9	59	4	10	0.5	16	1.0	15.0	0.5	7.0	56	9
264199	7420.00	4570.00	498.0	1	164	0.1	13.19	0.20	0.030	13.33	0.90	5.29	0.13	0.09	0.11	60.34	0.32	5.55	99.48	4	50	16	10	11	260	0.5	18	0.5	14.0	0.5	39.0	139	9
264200	7350.00	4700.00	18800.0	64	176	0.8	28.30	0.18	0.010	13.23	0.12	8.97	0.07	0.01	0.07	36.00	0.81	12.55	100.31	12	172	49	152	4	30	0.5	30	4.0	13.0	0.5	0.5	4	9
264201	6680.00	3550.00	189.0	1	48	0.1	10.42	0.13	0.005	3.68	2.33	1.15	0.01	0.18	0.02	79.27	0.16	2.00	99.35	8	95	17	7	32	370	0.5	8	0.4	2.0	0.5	0.5	2	9
264202	6680.00	3060.00	6.0	<2	122	<0.2	12.79	0.16	<0.01	6.08	1.97	4.45	0.06	0.33	0.12	68.98	0.35	4.24	99.53	8	102	30	17	27	320	1.0	<2	<0.5	3.0	<1	2.0	6	<10
264203	6900.00	3660.00	261.0	<2	70	<0.2	8.31	0.01	0.010	7.64	0.57	4.12	0.02	0.13	0.05	75.71	0.12	3.30	99.99	7	80	16	<5	6	110	0.5	<2	<0.5	2.0	<1	5.0	6	<10
264204	6950.00	3670.00	713.0	16	442	<0.2	13.32	0.04	0.010	12.07	1.65	4.41	0.03	0.19	0.17	63.21	0.70	4.35	100.15	<5	23	18	32	23	150	0.5	<2	<0.5	4.0	<1	7.0	376	<10
264205	6665.00	3695.00	14.0	<2	44	<0.2	8.03	0.01	0.010	4.09	1.80	1.19	0.14	0.16	0.09	81.53	0.12	2.34	99.51	6	81	16	13	27	410	0.5	<2	<0.5	2.0	1.0	<1	4	<10
264206	6685.00	3685.00	192.0	<2	72	<0.2	14.47	0.21	<0.01	9.74	1.84	5.22	0.03	0.21	0.25	62.68	0.68	4.43	99.76	<5	51	19	8	27	240	0.5	<2	<0.5	6.0	<1	2.0	216	<10
264207	6825.00	4130.00	592.0	<2	60	<0.2	10.76	0.06	<0.01	4.55	2.41	0.74	0.02	0.09	0.05	77.29	0.18	3.19	99.34	7	98	21	9	30	710	0.5	2	<0.5	3.0	9.0	4.0	15	<10
264208	7000.00	4100.00	8.0	<2	42	<0.2	10.94	0.06	0.320	3.45	2.94	1.18	0.02	0.12	0.05	78.39	0.20	2.54	100.21	7	96	19	9	37	920	0.5	<2	<0.5	1.0	1.0	1.0	7	<10

COPPER MOUNTAIN 1995
ACNC MAPPING PROGRAM

SAMPLE #	NORTHING	EASTING	G24 CU PPM	G24 PB PPM	G24 ZN PPM	G24 AG PPM	CXR AL2O3 %	CXR CAO %	CXR CR2O3 %	CXR FE2O3 %	CXR K2O %	CXR MGO %	CXR MNO %	CXR NA2O %	CXR P2O5 %	CXR SIO2 %	CXR TIO2 %	CXR LOI %	CXR TOTAL %	XRD NB PPM	XRD ZR PPM	XRD Y PPM	XRD SR PPM	XRD RB PPM	G24 BA PPM	G24 BE PPM	G24 BI PPM	G24 CD PPM	G24 CO PPM	G24 MO PPM	G24 NI PPM	G24 V PPM	G24 W PPM
264209	6910.00	3840.00	10.0	<2	152	<0.2	14.34	0.09	0.040	8.41	1.40	5.69	0.12	0.38	0.06	63.93	0.34	5.02	99.82	6	59	13	17	19	270	0.5	<2	<0.5	16.0	<1	34.0	131	<10
264210	6770.00	3840.00	7.0	2	38	<0.2	12.13	0.07	0.020	2.78	2.63	1.01	<0.01	0.40	0.03	77.27	0.16	3.00	99.50	7	106	24	18	39	450	0.5	2	<0.5	1.0	<1	2.0	7	<10
264211	7500.00	4700.00	3640.0	1	348	0.1	12.58	0.14	0.005	10.03	1.43	3.69	0.06	0.08	0.09	66.40	0.46	3.88	98.84	7	86	26	22	17	370	0.5	18	0.4	6.0	0.5	0.5	2	9
264212	7350.00	4770.00	766.0	1	490	0.1	14.63	0.15	0.010	16.56	0.10	8.86	0.08	0.17	0.07	52.27	0.46	6.31	99.67	7	109	22	40	4	60	0.5	16	1.0	25.0	2.0	3.0	5	9
264213	7280.00	3690.00	4.0	<2	80	<0.2	11.14	0.01	0.010	2.09	1.74	3.61	<0.01	0.32	0.09	76.99	0.17	4.23	100.40	7	100	19	23	25	150	0.5	2	<0.5	1.0	<1	4.0	9	<10
264214	7205.00	3735.00	38.0	<2	46	<0.2	9.95	0.01	0.010	4.48	2.30	1.21	0.02	0.29	0.06	78.59	0.15	2.38	99.45	6	90	23	17	37	190	0.5	<2	<0.5	3.0	<1	1.0	4	<10
264215	7245.00	3780.00	28200.0	120	440	2.0	16.24	0.02	0.005	24.07	0.15	8.73	0.02	0.01	0.03	39.20	0.27	8.59	97.32	8	138	30	8	<5	<100	<10	20	<10	40.0	<10	<1	<10	*****
264216	7530.00	4650.00	95.0	<2	188	<0.2	8.42	0.01	0.010	7.13	0.67	4.18	0.07	0.08	0.04	75.90	0.16	3.28	99.95	6	87	13	6	9	190	<0.5	2	<0.5	7.0	<1	2.0	8	<10
264217	7260.00	4770.00	138.0	<2	248	<0.2	11.56	0.08	0.020	11.03	0.65	6.51	0.07	0.10	0.08	65.38	0.35	4.54	100.37	7	89	25	5	6	270	0.5	4	<0.5	14.0	<1	5.0	7	<10
264218	0.00	0.00	3.0	<2	26	<0.2	10.80	0.76	0.020	2.78	7.59	0.66	0.04	0.65	0.02	74.68	0.25	1.26	99.51	27	309	133	24	100	700	1.5	<2	<0.5	2.0	3.0	7.0	15	<10
264219	7260.00	4740.00	13000.0	<10	460	2.0	10.86	0.02	0.010	4.18	1.40	2.31	0.02	0.01	0.03	74.31	0.33	4.02	97.49	7	88	29	15	15	400	<10	<20	<10	<10	<10	<1	<10	*****
264220	6520.00	3890.00	47.0	6	158	<0.2	9.98	0.01	0.010	1.47	2.52	0.91	<0.01	0.17	0.05	82.86	0.14	1.95	100.07	6	91	19	11	38	540	0.5	<2	<0.5	<1	<1	<1	1	<[illegible]
264221	6600.00	4235.00	20.0	<2	216	<0.2	12.63	0.11	0.010	16.54	0.85	6.61	0.41	0.10	0.12	55.93	0.39	6.30	100.00	<5	35	21	9	8	210	0.5	<2	<0.5	24.0	<1	27.0	158	<10
264222	6550.00	4000.00	2.0	<2	48	<0.2	10.28	0.06	0.010	4.24	2.19	2.26	0.02	0.15	0.06	77.59	0.14	2.97	99.97	8	94	21	7	32	470	0.5	<2	<0.5	2.0	<1	3.0	4	<10
264223	6750.00	4370.00	52.0	<2	42	<0.2	10.52	0.03	0.010	3.62	2.98	1.46	0.02	0.08	0.04	78.03	0.17	2.68	99.64	7	99	17	<5	39	1190	0.5	<2	<0.5	3.0	1.0	6.0	30	<10
264224	6640.00	4380.00	12.0	<2	20	<0.2	10.26	0.10	0.010	2.80	2.73	1.19	0.01	0.08	0.06	80.12	0.30	2.65	100.31	6	83	19	<5	34	690	0.5	<2	<0.5	1.0	<1	2.0	3	<10
264225	6820.00	4395.00	3.0	<2	42	<0.2	11.17	0.07	0.010	4.69	2.65	1.83	0.04	0.09	0.04	76.32	0.18	3.08	100.17	7	98	20	5	30	1040	<0.5	<2	<0.5	2.0	<1	2.0	7	<10
264226	6750.00	4550.00	73.0	<2	24	<0.2	9.87	0.08	0.020	1.31	2.75	0.59	0.02	0.07	0.12	83.70	0.29	1.75	100.55	8	72	18	12	37	760	0.5	<2	<0.5	<1	<1	<1	2	<10
264227	6980.00	4380.00	21.0	20	468	<0.2	13.00	0.03	0.010	5.59	3.24	0.89	0.10	0.12	0.09	73.19	0.37	3.52	100.15	9	106	32	12	45	720	0.5	<2	<0.5	<1	<1	1.0	2	<10
264228	7000.00	4680.00	889.0	16	762	3.0	16.19	0.01	0.010	21.32	0.09	9.20	0.15	0.14	0.08	45.29	0.49	6.82	99.79	8	101	55	37	<5	40	<0.5	<2	<0.5	3.0	24.0	3.0	132	<10
264229	6900.00	4550.00	11.0	<2	68	<0.2	11.59	0.08	0.010	4.23	2.83	1.54	0.02	0.12	0.09	76.48	0.34	2.94	100.27	7	94	27	8	36	720	0.5	6	<0.5	3.0	<1	1.0	8	<10
264230	7000.00	4800.00	28.0	<2	146	<0.2	10.95	0.04	<0.01	2.78	2.71	1.54	0.03	0.16	0.05	78.29	0.18	2.61	99.34	7	101	23	11	30	950	0.5	10	<0.5	4.0	<1	2.0	10	<10
264231	7230.00	4680.00	42.0	<2	532	<0.2	18.30	0.85	0.020	12.92	2.58	5.82	0.18	0.25	0.69	51.44	0.60	6.00	99.65	<5	51	23	14	29	590	<0.5	<2	<0.5	28.0	<1	39.0	246	<10
264232	7375.00	4640.00	88.0	2	168	<0.2	10.82	0.01	0.010	4.48	2.10	1.99	0.04	0.13	0.13	77.21	0.17	2.91	100.00	8	98	20	7	25	660	0.5	<2	<0.5	3.0	<1	3.0	7	<10
264233	7440.00	5000.00	122.0	198	62	2.0	11.36	0.06	0.010	4.95	2.67	0.53	<0.01	0.16	0.06	76.61	0.36	3.05	99.82	8	96	28	91	33	880	0.5	<2	<0.5	<1	1.0	2.0	3	<10
264234	7235.00	4630.00	83.0	<2	352	<0.2	10.12	0.05	0.010	6.45	1.49	3.26	0.13	0.29	0.08	73.75	0.30	4.33	100.26	7	80	21	13	16	490	0.5	<2	<0.5	3.0	1.0	2.0	4	<10
264235	7040.00	4720.00	39.0	<2	164	<0.2	11.71	0.08	0.010	5.84	2.13	3.20	0.06	0.14	0.08	73.06	0.33	3.04	99.68	7	87	21	6	27	630	0.5	<2	<0.5	3.0	<1	2.0	4	10
264236	7130.00	4550.00	384.0	<2	300	<0.2	10.96	0.01	0.010	8.50	1.49	3.85	0.08	0.08	0.06	70.63	0.31	3.46	99.44	7	84	20	33	17	470	0.5	<2	<0.5	2.0	<1	2.0	4	10
264237	0.00	0.00	100.0	<2	80	<0.2	13.36	8.23	<0.01	9.62	0.93	5.05	0.31	3.01	0.14	51.54	1.22	6.20	99.61	5	107	31	101	16	230	0.5	<2	<0.5	44.0	<1	29.0	290	20
264238	7450.00	4440.00	3710.0	90	140	2.0	12.43	0.04	0.040	4.19	2.86	1.89	0.03	0.08	0.06	74.50	0.28	2.75	99.15	5	67	17	9	37	300	<10	<20	<10	<10	<10	<1	<10	*****
264239	7250.00	4410.00	265.0	<2	792	<0.2	11.62	0.02	0.010	4.00	2.41	0.50	0.03	0.21	0.08	77.57	0.35	3.23	100.03	7	91	25	11	32	750	0.5	<2	<0.5	2.0	<1	1.0	3	<10
264240	7240.00	4200.00	100.0	<2	198	<0.2	12.20	0.03	<0.01	5.70	2.54	2.07	0.03	0.17	0.12	73.62	0.37	3.14	99.99	8	96	27	13	31	730	0.5	<2	<0.5	3.0	<1	4.0	7	<10
264241	7130.00	4530.00	4050.0	<2	164	<0.2	13.85	0.03	0.010	7.21	2.68	2.10	0.05	0.01	0.10	69.00	0.47	4.05	99.56	<5	50	13	6	36	950	0.5	<2	<0.5	4.0	<1	27.0	175	<10
264242	7135.00	4770.00	71.0	<2	158	<0.2	10.01	0.05	0.010	6.33	1.58	2.85	0.07	0.13	0.04	75.17	0.17	3.16	99.57	6	91	16	11	19	680	0.5	<2	<0.5	5.0	<1	4.0	8	<10
264243	7100.00	4950.00	3500.0	90	140	3.0	10.79	0.02	0.010	2.50	1.08	0.25	<0.01	<0.01	0.03	80.29	0.34	3.73	99.04	7	86	23	26	7	300	<10	<20	<10	<10	<10	5.0	<10	*****
264244	7100.00	4965.00	2920.0	<2	578	<0.2	12.01	0.02	0.010	11.31	1.22	4.07	0.05	0.05	0.12	65.58	0.41	4.31	99.16	7	77	26	22	11	370	0.5	<2	<0.5	5.0	<1	3.0	7	<10
264245	7120.00	5170.00	46.0	16	106	<0.2	10.20	0.54	0.010	2.09	0.74	0.18	0.02	4.03	0.07	79.48	0.20	1.88	99.44	7	90	28	81	9	170	0.5	<2	<0.5	2.0	<1	4.0	2	<1[illegible]
264246	7560.00	5150.00	64.0	<2	58	<0.2	9.94	0.11	0.010	3.25	0.91	0.22	0.02	3.00	0.06	79.51	0.20	1.97	99.20	7	92	24	38	12	140	0.5	<2	<0.5	1.0	1.0	1.0	3	<[illegible]
264247	7350.00	5480.00	11.0	6	30	<0.2	8.82	0.48	0.010	1.83	1.36	0.15	0.03	0.89	0.04	83.27	0.16	2.04	99.08	7	102	25	50	18	250	0.5	<2	<0.5	1.0	<1	3.0	4	<10
264248	7180.00	5850.00	31.0	18	134	<0.2	11.87	0.09	0.010	5.87	1.18	2.35	0.01	0.38	0.11	73.34	0.27	4.27	99.75	7	94	30	28	13	280	0.5	<2	<0.5	1.0	<1	3.0	2	<10
264249	7270.00	6020.00	16.0	4	92	<0.2	12.28	0.16	0.010	6.38	1.15	2.82	0.02	0.22	0.15	70.84	0.39	4.83	99.25	6	81	27	20	13	200	0.5	<2	<0.5	3.0	1.0	3.0	3	<10
264250	7060.00	6200.00	35.0	<2	20	<0.2	8.99	0.07	0.020	0.73	1.85	0.27	<0.01	0.33	0.06	84.66	0.38	1.71	99.07	6	64	37	15	16	190	<0.5	<2	<0.5	4.0	<1	4.0	24	<10
264251	7600.00	6160.00	12.0	2	116	<0.2	12.17	0.10	0.010	5.68	1.50	5.70	<0.01	0.21	0.10	70.21	0.24	4.16	100.08	8	106	29	9	19	180	0.5	6	<0.5	2.0	<1	<1	7	<10
264252	7620.00	5830.00	7.0	<2	150	<0.2	12.63	4.74	0.010	8.29	2.01	0.72	0.15	1.26	0.25	62.89	0.49	6.64	100.08	6	65	25	44	27	260	0.5	<2	<0.5	5.0	<1	1.0	27	10
264253	7650.00	4330.00	475.0	24	484	2.4	8.97	0.04	0.010	12.08	0.31	4.13	0.03	0.12	0.09	68.99	0.26	4.23	99.26	5	72	13	12	<5	70	<0.5	4	<0.5	20.0	<1	5.0	10	10
264254	7620.00	4280.00	590.0	<2	374	<0.2	12.32	0.17	0.040	14.41	0.16	7.58	0.14	0.07	0.06	58.41	0.31	6.15	99.82	<5	46	17	7	<5	40	<0.5	<2	<0.5	7.0	<1	37.0	131	10
264255	6970.00	4625.00	3720.0	950	222	17.6	17.85	0.05	<0.01	0.85	0.61	0.23	<0.01	0.26	0.05	68.88	0.48	9.83	99.09	9	136	18	62	<5	60	<0.5	2	<0.5	2.0	<1	6.0	18	<10
264256	0.00	0.00	7.0	4	28	<0.2	10.62	0.77	0.030	2.80	7.65	0.70	0.04	0.62	0.02	74.20	0.24	1.23	98.92	27	314	133	25	105	710	1.5	<2	<0.5	2.0	3.0	7.0	16	<10
264257	6965.00	4625.00	>10000	132	1295	2.0	5.36	0.06	0.020	5.82	0.07	2.06	0.04	<0.1	0.26	83.00	0.07	3.05	99.81	<5	23	7	27	<5	10	<0.5	<2	0.5	7.0	1.0	10.0	23	<10
264258	6970.00	4630.00	5970.0	>10000	768	65.0	8.14	0.08	0.010	18.10	1.16	0.20	<0.01	0.24	0.33	52.85	0.27	10.48	91.86	<5	144	26	304	44	190	<0.5	44	30.4	1.0	85.0	1.0	16	<10
264259	6770.00	4820.00	319.0	64	162	0.2	11.87	0.11	0.010	8.31	1.79	3.18	0.07	0.09	0.10	70.95	0.42	3.20	100.10	6	81	26	9	18	470	0.5	4	<0.5	3.0	<1	3.0	6	<10
264260	6750.00	4620.00	111.0	620	90	0.6	10.92	0.11	0.020	7.54	2.01	2.53	0.10	0.11	0.13	72.59	0.32	3.49	99.87	7	89	26	13	22	740	0.5	2	<0.5	11.0	2.0	3.0	3	10

COPPER MOUNTAIN 1995
ACNC MAPPING PROGRAM

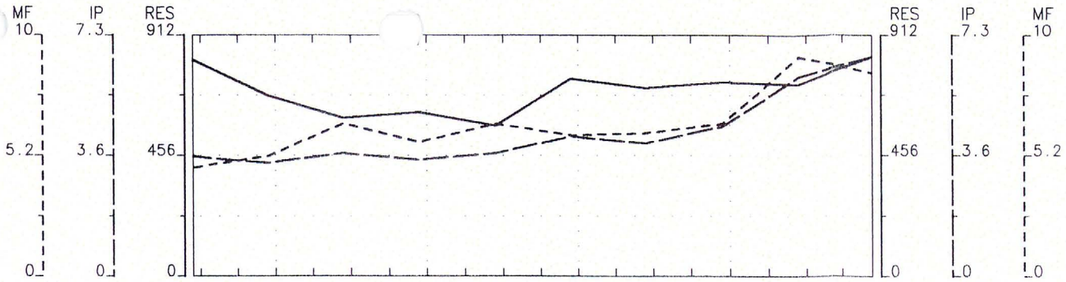
SAMPLE #	NORTHING	EASTING	G24 CU PPM	G24 PB PPM	G24 ZN PPM	G24 AG PPM	CXR AL2O3 %	CXR CAO %	CXR CR2O3 %	CXR FE2O3 %	CXR K2O %	CXR MGO %	CXR MNO %	CXR NA2O %	CXR P2O5 %	CXR SIO2 %	CXR TIO2 %	CXR LOI %	CXR TOTAL %	XRD NB PPM	XRD ZR PPM	XRD Y PPM	XRD SR PPM	XRD RB PPM	G24 BA PPM	G24 BE PPM	G24 BI PPM	G24 CD PPM	G24 CO PPM	G24 MO PPM	G24 NI PPM	G24 V PPM	G24 W PPM
264261	4515.00	6930.00	107.0	16	60	<0.2	10.17	0.04	0.010	1.35	3.06	0.74	0.01	0.12	0.06	81.95	0.30	1.87	99.68	8	81	21	5	44	740	0.5	<2	<0.5	<1	<1	3.0	2	<10
264262	4550.00	6510.00	49.0	54	242	0.2	14.35	0.05	<0.01	7.23	4.55	0.85	0.02	0.14	0.13	68.55	0.44	3.31	99.62	7	112	35	53	62	980	1.0	2	<0.5	<1	2.0	1.0	3	<10
264263	4540.00	6450.00	12.0	2	56	<0.2	11.15	0.04	<0.01	4.46	2.46	2.42	0.06	0.15	0.03	75.00	0.17	3.13	99.07	6	100	17	<5	27	650	0.5	2	<0.5	3.0	<1	2.0	7	<10
264264	6500.00	4725.00	65.0	16	44	<0.2	9.70	0.04	0.030	4.53	2.25	1.63	0.03	0.10	0.11	78.76	0.29	2.66	100.13	5	74	22	5	28	600	0.5	<2	<0.5	2.0	<1	3.0	2	<10
264265	7650.00	4180.00	205.0	2	24	<0.2	10.72	0.03	0.010	2.08	2.60	0.98	<0.01	0.38	0.07	80.92	0.30	2.03	100.12	7	84	21	13	34	310	0.5	<2	<0.5	<1	<1	<1	<1	<10
264266	7420.00	4125.00	143.0	8	38	<0.2	11.52	0.03	0.010	5.10	2.13	2.82	0.04	0.23	0.13	75.25	0.33	2.87	100.46	6	90	24	6	29	380	0.5	<2	<0.5	<1	<1	4.0	2	<10
264267	7430.00	4240.00	55.0	2	794	<0.2	14.29	0.09	0.010	11.14	0.93	8.77	0.15	0.16	0.13	57.59	0.47	5.73	99.46	<5	54	17	6	9	170	0.5	6	<0.5	11.0	<1	22.0	186	10
264268	7720.00	3850.00	9.0	50	48	5.0	9.46	0.03	0.010	0.74	2.44	0.28	<0.01	0.30	0.02	84.92	0.14	1.60	99.94	7	88	19	20	30	390	0.5	<2	<0.5	<1	<1	3.0	1	<10
264269	6580.00	3180.00	11.0	6	26	<0.2	11.36	0.14	<0.01	1.25	2.20	1.50	<0.01	1.15	0.01	79.17	0.18	2.93	99.89	6	109	19	16	25	580	0.5	<2	<0.5	<1	<1	3.0	6	<10
264270	6500.00	3085.00	4.0	2	94	<0.2	11.69	0.13	<0.01	5.40	2.47	1.03	0.10	0.91	0.09	74.26	0.29	3.10	99.47	6	95	29	29	38	610	0.5	4	<0.5	2.0	1.0	2.0	3	<10
264271	6740.00	2780.00	9.0	10	30	<0.2	9.71	0.19	0.010	3.81	0.90	0.37	0.02	2.51	0.02	78.67	0.22	2.60	99.03	6	93	30	32	12	270	<0.5	<2	<0.5	1.0	<1	2.0	3	<10
264272	6125.00	3300.00	396.0	10	62	0.2	10.94	0.01	0.010	3.56	2.56	1.77	<0.01	0.24	0.02	77.40	0.17	2.34	99.02	7	102	17	14	36	220	<0.5	6	<0.5	3.0	<1	<1	11	<10
264273	6650.00	3470.00	165.0	4	62	<0.2	11.10	0.01	<0.01	3.93	2.50	1.46	0.03	0.20	0.02	77.35	0.18	2.25	99.03	7	100	19	5	30	610	<0.5	4	<0.5	4.0	1.0	<1	7	<10
264274	6300.00	3380.00	97.0	6	26	<0.2	9.07	0.01	0.020	2.06	2.17	1.06	<0.01	0.14	0.04	82.52	0.12	1.93	99.14	5	85	19	9	30	300	<0.5	2	<0.5	4.0	1.0	<1	5	<10
264275	0.00	0.00	4.0	8	28	<0.2	10.62	0.75	0.020	2.81	7.47	0.67	0.04	0.58	0.03	74.07	0.24	1.26	98.56	26	310	135	23	104	710	1.0	<2	<0.5	2.0	3.0	4.0	16	<10
264276	6300.00	3370.00	1385.0	<2	84	<0.2	14.61	0.01	<0.01	7.98	2.73	3.45	0.03	0.17	0.09	65.65	0.29	4.02	99.03	7	118	18	10	36	430	<0.5	8	<0.5	7.0	1.0	1.0	32	<10
264277	6050.00	3500.00	118.0	10	42	<0.2	9.17	0.01	0.010	2.89	1.84	0.32	<0.01	0.12	0.04	82.12	0.15	2.56	99.23	5	86	15	9	24	540	0.5	26	<0.5	7.0	1.0	<1	17	<10
264278	6125.00	3480.00	256.0	22	142	1.0	9.75	<0.0	0.010	11.28	0.65	4.41	0.02	0.06	0.05	69.06	0.14	3.69	99.12	8	91	20	<5	5	90	<0.5	10	<0.5	6.0	<1	1.0	12	<10
264279	6450.00	4425.00	270.0	8	176	0.2	8.52	0.01	0.010	11.85	0.55	3.73	0.03	0.09	0.10	70.69	0.13	3.41	99.12	5	73	18	9	7	150	<0.5	8	<0.5	10.0	1.0	<1	12	10
264280	6700.00	4400.00	85.0	8	56	<0.2	12.51	0.01	<0.01	2.41	2.92	0.48	<0.01	0.24	0.04	77.70	0.17	2.82	99.30	7	115	24	62	46	460	0.5	6	<0.5	2.0	<1	2.0	8	<10
264281	6250.00	3785.00	48.0	2	28	<0.2	8.13	<0.0	0.010	3.63	1.32	1.64	<0.01	0.13	0.05	82.51	0.11	2.33	99.86	5	80	13	6	20	150	<0.5	8	<0.5	2.0	<1	1.0	12	<10
264282	4795.00	6705.00	429.0	8	342	0.4	11.07	0.05	<0.01	13.04	0.10	7.74	0.14	0.16	0.05	61.42	0.30	4.96	99.03	<5	78	22	9	<5	40	<0.5	18	<0.5	9.0	3.0	3.0	10	10
264283	6750.00	5570.00	32	4	86	<0.2	13.61	0.35	0.010	10.53	2.77	0.47	0.01	0.70	0.26	66.65	0.53	4.35	100.24	5	70	25	43	36	290	<0.5	<2	<0.5	9	1	1	28	<10
264284	5740.00	6550.00	13	<2	50	<0.2	14.91	0.21	0.010	4.23	1.93	3.56	<0.01	0.23	0.06	69.14	0.34	5.08	99.70	9	127	34	19	23	470	<0.5	6	<0.5	4	1	1	9	<10
264285	6755.00	6060.00	7	<2	42	<0.2	12.88	1.30	0.010	7.93	1.53	3.85	0.03	0.37	0.21	62.66	0.50	8.88	100.15	6	69	23	19	17	260	<0.5	4	<0.5	9	<1	<1	21	<10
264286	6410.00	6900.00	4	4	8	<0.2	10.29	0.02	0.020	0.42	2.13	0.33	<0.01	0.30	0.02	83.98	0.19	1.92	99.62	9	118	26	16	22	530	<0.5	2	<0.5	4	1	1	11	<10
264287	7090.00	5480.00	37	88	246	<0.2	11.13	1.69	0.010	2.53	2.47	0.23	0.06	0.54	0.04	77.06	0.21	3.12	99.09	8	125	31	37	28	300	<0.5	2	3.5	3	1	1	6	<10
264288	7150.00	5090.00	26	4	54	<0.2	11.87	0.12	0.010	2.57	1.05	0.13	<0.01	4.92	0.09	76.81	0.21	1.35	99.13	9	109	29	78	15	190	<0.5	<2	<0.5	2	1	1	6	<10
264289	6735.00	6020.00	>10000	36	322	1	6.99	0.35	0.070	9.45	1.45	0.26	<0.01	0.28	0.42	71.25	0.13	3.94	94.59	<5	76	20	13	18	70	<0.5	<2	<0.5	181	1	1	10	<10
264290	6125.00	3620.00	2320.0	30	40	<0.1	9.21	0.01	<0.01	3.61	1.60	1.09	<0.01	0.10	0.02	80.35	0.13	2.89	99.01	6	84	17	34	20	100	<10	<20	<10	<10	<10	<1	<10	*****
264291	6150.00	3700.00	1455.0	<2	184	<0.2	10.37	<0.01	<0.01	11.24	0.83	4.39	0.01	0.10	0.10	67.45	0.32	4.24	99.05	6	85	25	6	12	120	<0.5	8	<0.5	7.0	<1	1.0	6	10
264292	6260.00	3950.00	25.0	4	42	<0.2	9.37	0.01	<0.01	2.84	2.21	0.65	0.01	0.28	0.03	81.54	0.13	2.18	99.25	5	83	13	14	32	670	<0.5	6	<0.5	1.0	1.0	<1	15	<10
264293	6300.00	230.00	12.0	<2	92	<0.2	11.86	0.12	0.030	10.34	1.83	3.90	0.23	0.10	0.08	65.52	0.29	4.87	99.17	<5	50	9	10	14	360	<0.5	4	<0.5	15.0	<1	25.0	130	10
264294	0.00	0.00	95.0	<2	80	<0.2	13.20	8.22	0.010	9.68	0.93	5.01	0.31	2.95	0.13	51.19	1.22	6.26	99.11	<5	107	28	102	16	210	<0.5	<2	<0.5	39.0	<1	27.0	268	10
264295	6400.00	4100.00	5.0	2	52	<0.2	9.82	0.01	0.010	3.64	2.28	1.58	0.04	0.13	0.04	79.07	0.14	2.59	99.35	6	95	20	5	33	640	0.5	6	<0.5	3.0	<1	1.0	6	<10
264296	6255.00	4625.00	458.0	2	140	<0.2	11.48	0.08	<0.01	5.77	2.76	1.35	0.02	0.12	0.06	74.02	0.19	3.22	99.07	6	105	26	11	35	760	0.5	<2	<0.5	4.0	1.0	<1	6	<10
264297	6500.00	4350.00	13.0	<2	20	<0.2	10.44	0.02	0.010	1.50	2.79	0.74	0.01	0.05	0.10	83.10	0.16	1.87	100.80	7	94	16	<5	39	800	0.5	<2	<0.5	<1	<1	1.0	5	<10
264298	6300.00	4280.00	12.0	<2	80	<0.2	9.73	0.17	0.010	8.86	0.66	5.30	0.13	0.09	0.04	69.28	0.16	4.88	99.31	6	90	24	7	6	210	<0.5	<2	<0.5	9.0	<1	1.0	12	10
264299	6125.00	4550.00	3.0	<2	46	<0.2	11.28	<0.01	<0.01	4.04	2.79	1.73	0.04	0.16	0.06	76.10	0.16	2.89	99.25	6	102	19	5	43	600	0.5	<2	<0.5	2.0	<1	<1	4	<10
264300	6300.00	3200.00	4.0	4	48	<0.2	11.82	0.03	0.010	2.68	2.69	2.73	<0.01	0.27	0.08	76.35	0.18	3.07	99.91	<5	106	25	11	51	290	0.5	2	<0.5	3.0	<1	1.0	6	<10
264301	6630.00	5800.00	58	20	66	<0.2	13.37	0.22	0.010	9.34	0.76	4.09	0.04	0.23	0.15	65.31	0.52	6.34	100.38	6	71	22	27	8	150	<0.5	<2	<0.5	9	1	1	30	<10
264302	6410.00	5420.00	41	4	98	<0.2	11.10	0.08	0.010	4.12	2.06	0.26	0.04	0.44	0.07	78.65	0.21	2.61	99.65	8	97	25	23	28	300	<0.5	<2	<0.5	3	1	1	4	<10
264303	6200.00	5550.00	13	16	118	<0.2	13.01	0.12	0.010	6.18	1.56	0.25	<0.01	1.06	0.14	72.81	0.48	3.90	99.52	8	88	24	63	22	240	<0.5	<2	<0.5	1	1	1	8	<10
264304	6470.00	4630.00	203	2	56	<0.2	10.24	0.03	0.010	4.39	2.27	1.56	0.02	0.09	0.09	77.62	0.30	2.53	99.15	7	86	28	<5	28	700	<0.5	2	<0.5	4	1	2	8	<10
264305	6400.00	4650.00	93	10	62	<0.2	10.61	0.08	0.010	4.10	2.31	1.77	0.02	0.10	0.07	77.42	0.31	2.50	99.30	7	82	29	5	29	650	<0.5	4	<0.5	3	1	2	7	<10
264306	6260.00	5100.00	37	<2	92	<0.2	10.57	0.02	0.010	4.12	2.28	1.34	0.01	0.12	0.13	78.37	0.30	2.75	100.02	7	81	22	10	35	650	<0.5	2	<0.5	3	<1	2	5	<10
264307	6200.00	5160.00	16	<2	16	<0.2	10.58	0.01	0.010	1.00	2.73	0.41	<0.01	0.14	0.01	82.62	0.15	1.92	99.58	7	97	23	11	42	800	<0.5	<2	<0.5	2	1	<1	6	<10
264308	6050.00	4900.00	11	<2	160	<0.2	13.27	0.20	0.040	9.73	1.14	7.99	0.30	0.12	0.09	61.19	0.31	5.41	99.79	<5	53	13	8	11	260	<0.5	<2	0.5	17	<1	31	142	10
264309	6060.00	5240.00	11	<2	36	<0.2	10.95	0.02	0.010	1.85	2.78	0.50	<0.01	0.15	0.02	80.31	0.15	2.42	99.16	7	102	17	7	41	690	<0.5	<2	<0.5	2	<1	<1	6	<10
264310	6250.00	5680.00	36	2	60	<0.2	13.33	0.14	<0.01	7.65	2.21	1.64	0.01	0.42	0.19	69.21	0.46	4.58	99.84	5	78	22	33	24	410	<0.5	<2	<0.5	7	1	1	20	<10
264311	6250.00	5800.00	16	<2	238	<0.2	15.45	0.22	0.010	5.30	1.72	7.15	0.04	0.20	0.30	63.23	0.62	5.88	100.12	7	85	37	13	15	280	<0.5	<2	<0.5	4	1	1	24	<10
264312	6100.00	6000.00	14	36	78	<0.2	12.64	0.10	<0.01	4.44	2.43	0.38	<0.01	0.69	0.06	75.38	0.29	3.38	99.79	7	103	27	41	30	570	<0.5	<2	<0.5	1	2	2	6	<10

COPPER MOUNTAIN 1995
ACNC MAPPING PROGRAM

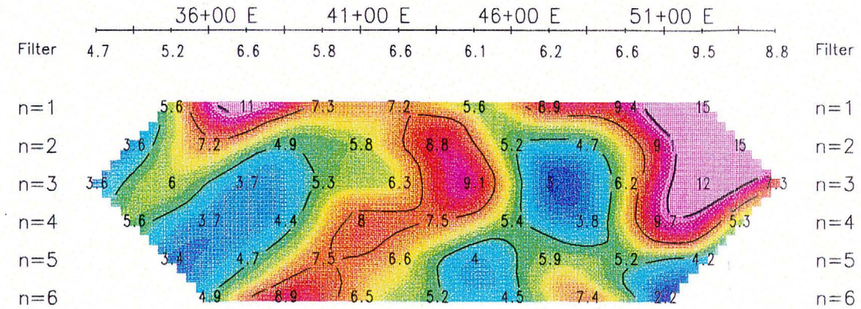
SAMPLE #	NORTHING	EASTING	G24 CU PPM	G24 PB PPM	G24 ZN PPM	G24 AG PPM	CXR AL2O3 %	CXR CAO %	CXR CR2O3 %	CXR FE2O3 %	CXR K2O %	CXR MGO %	CXR MNO %	CXR NA2O %	CXR P2O5 %	CXR SIO2 %	CXR TIO2 %	CXR LOI %	CXR TOTAL %	XRD NB PPM	XRD ZR PPM	XRD Y PPM	XRD SR PPM	XRD RB PPM	G24 BA PPM	G24 BE PPM	G24 BI PPM	G24 CD PPM	G24 CO PPM	G24 MO PPM	G24 NI PPM	G24 V PPM	G24 W PPM
264313	6625.00	5975.00	38	10	12	<0.2	8.95	0.04	0.020	0.60	1.91	0.29	<0.01	0.26	0.04	85.04	0.36	1.80	99.31	6	58	41	12	20	240	<0.5	2	<0.5	1	<1	1	20	<10
264314	7180.00	6140.00	184	<2	114	<0.2	12.97	0.37	<0.01	12.26	1.61	2.49	0.01	0.30	0.28	63.71	0.50	5.55	100.05	5	64	24	17	20	200	<0.5	<2	<0.5	6	1	1	28	<10
264315	0.00	0.00	11	<2	30	<0.2	10.71	0.74	0.020	2.75	7.69	0.66	0.03	0.57	0.03	74.54	0.24	1.22	99.20	24	308	133	22	104	710	0.5	2	<0.5	4	3	5	18	<10
264316	6450.00	7030.00	1005	10	6	<0.2	9.51	0.08	0.020	0.38	1.91	0.26	<0.01	0.25	0.04	85.16	0.35	1.81	99.77	5	56	32	38	19	230	<0.5	18	<0.5	13	<1	2	48	<10
264317	7530.00	6220.00	19	6	56	<0.2	11.92	0.15	0.010	4.87	0.71	3.28	<0.01	0.09	0.10	73.51	0.28	4.79	99.71	8	96	31	23	5	200	<0.5	4	<0.5	3	1	1	8	<10
264318	7480.00	6410.00	>10000	<2	68	<0.2	15.96	0.10	0.040	16.04	0.08	13.57	0.20	<0.01	0.19	43.42	0.56	9.42	99.58	<5	34	13	<5	<5	30	<0.5	<2	<0.5	96	<1	48	253	10
264319	6770.00	6690.00	29	<2	98	<0.2	12.10	0.26	0.020	8.71	1.53	2.87	0.05	0.17	0.21	69.13	0.50	4.15	99.70	8	74	23	7	15	590	<0.5	2	<0.5	9	1	1	18	<10
264320	7130.00	6650.00	11	<2	64	<0.2	13.46	0.34	<0.01	7.47	1.56	3.80	0.03	0.34	0.26	67.30	0.50	4.89	99.95	5	73	22	18	21	280	<0.5	2	<0.5	8	1	2	16	<10
264321	6620.00	6630.00	38	2	16	<0.2	10.65	0.04	0.010	0.47	2.59	0.31	<0.01	0.16	0.03	82.64	0.23	1.90	99.03	7	87	26	25	23	880	<0.5	2	<0.5	8	<1	2	6	<10
264322	7330.00	6700.00	2920	<2	152	<0.2	10.75	0.06	0.010	8.80	0.42	6.80	0.03	0.02	0.03	67.46	0.20	5.26	99.84	7	114	24	5	<5	140	<0.5	<2	<0.5	8	<1	2	9	<10
264323	6750.00	7240.00	79	8	82	<0.2	12.51	0.09	0.010	3.88	2.80	0.67	<0.01	0.23	0.07	76.20	0.31	2.91	99.68	7	108	35	22	37	830	<0.5	<2	<0.5	3	<1	2	6	<10
264324	7000.00	7100.00	82	<2	98	<0.2	11.44	0.18	<0.01	6.43	1.72	1.16	0.03	0.15	0.20	74.52	0.42	3.85	100.10	6	70	22	15	23	460	<0.5	4	<0.5	4	1	1	13	<10
264325	6880.00	7020.00	5980	<2	242	<0.2	21.53	0.13	<0.01	19.75	0.12	12.75	0.06	<0.01	0.14	34.98	0.77	9.60	99.83	7	130	43	<5	<5	30	<0.5	12	<0.5	10	<1	<1	24	10
264326	5710.00	6960.00	391	<2	194	<0.2	12.67	0.22	0.010	4.62	2.15	4.31	0.01	0.15	0.16	71.14	0.45	3.66	99.55	6	78	26	9	19	680	<0.5	<2	<0.5	4	<1	<1	12	<10
264327	6700.00	5400.00	92	18	268	0.8	11.56	0.13	0.010	5.60	1.88	3.36	0.01	0.18	0.11	72.55	0.31	3.65	99.35	6	97	24	10	19	600	<0.5	4	<0.5	4	<1	2	7	<10
264328	5240.00	7410.00	14	<2	60	<0.2	11.73	0.11	0.010	4.88	2.32	1.78	0.02	0.41	0.07	74.20	0.22	3.35	99.10	8	105	28	16	26	800	<0.5	<2	<0.5	6	1	1	6	<10
264329	5500.00	7650.00	14	<2	68	<0.2	12.26	0.07	0.010	4.21	1.92	4.54	0.02	0.16	0.03	72.44	0.22	4.24	100.12	7	133	43	5	23	450	<0.5	<2	<0.5	7	<1	1	9	<10
264330	5310.00	7500.00	5	<2	14	<0.2	11.84	0.04	0.010	2.45	2.03	1.98	<0.01	0.29	0.05	77.78	0.22	2.94	99.63	8	118	29	12	19	790	<0.5	<2	<0.5	3	1	1	8	<10
264331	6625.00	5850.00	2770	1300	5080	3.6	5.58	1.50	0.020	14.75	0.36	3.05	0.06	0.33	0.10	63.00	0.19	10.52	99.46	<5	42	16	9	6	70	<0.5	4	11.5	41	1	3	15	<10
264332	6625.00	6400.00	146	<2	104	<0.2	12.36	0.09	0.010	4.83	1.60	3.44	<0.01	0.19	0.08	73.54	0.33	3.67	100.14	6	87	28	8	20	390	<0.5	6	<0.5	4	1	2	8	<10
264333	6300.00	6580.00	683	<2	306	<0.2	11.68	0.18	0.010	10.23	0.78	6.13	0.05	0.12	0.12	64.82	0.43	5.02	99.57	6	77	29	10	5	220	<0.5	<2	<0.5	6	1	1	10	<10
264334	0.00	0.00	6	2	28	<0.2	10.69	0.76	0.020	2.75	7.70	0.69	0.03	0.57	0.02	74.48	0.24	1.25	99.20	26	314	133	23	108	690	0.5	6	<0.5	4	3	5	18	<10
264335	6480.00	7260.00	20	<2	156	<0.2	15.83	0.21	0.040	14.47	0.89	8.35	0.09	0.16	0.14	52.56	0.52	6.89	100.15	<5	37	14	6	7	300	<0.5	<2	1	21	<1	37	226	10
264336	6485.00	7270.00	10	<2	74	<0.2	12.13	0.22	0.010	5.93	1.65	4.02	0.03	0.17	0.18	71.28	0.38	4.18	100.18	7	76	19	11	21	690	<0.5	<2	<0.5	9	2	6	28	<10
264337	6700.00	6780.00	10	<2	76	<0.2	12.51	0.22	0.010	8.93	1.69	3.08	0.06	0.18	0.16	68.55	0.45	4.28	100.12	8	78	22	19	18	530	<0.5	<2	<0.5	9	2	<1	10	<10
264338	6600.00	6970.00	21	12	166	<0.2	12.36	0.08	<0.01	6.21	1.92	1.50	<0.01	0.26	0.08	72.66	0.29	4.13	99.49	6	102	30	27	22	550	<0.5	<2	<0.5	3	1	1	7	<10
264339	6500.00	7500.00	6	<2	66	<0.2	12.21	0.05	<0.01	4.45	2.44	2.50	0.02	0.17	0.08	73.68	0.23	3.34	99.17	7	122	28	9	28	720	<0.5	4	<0.5	5	<1	1	15	<10
264340	6625.00	7500.00	3050	<2	268	<0.2	22.13	0.22	0.010	24.68	0.07	14.67	0.10	0.12	0.12	27.69	0.48	9.77	100.06	13	196	57	<5	<5	20	<0.5	<2	<0.5	38	<1	11	32	10
264341	6250.00	7900.00	22	<2	68	<0.2	13.02	0.56	0.010	11.41	1.07	5.60	0.08	0.14	0.53	61.17	0.72	5.42	99.73	<5	61	26	7	13	310	<0.5	<2	1	12	<1	<1	43	<10
264342	6175.00	7500.00	210	<2	258	<0.2	17.21	0.19	0.050	16.49	0.18	14.33	0.22	0.08	0.16	42.29	0.59	8.32	100.11	<5	35	14	<5	<5	70	<0.5	<2	0.5	25	<1	48	254	10
264343	5970.00	7180.00	543	<2	90	<0.2	11.37	0.08	0.010	5.63	1.84	2.72	<0.01	0.14	0.06	74.23	0.24	3.53	99.85	8	105	24	5	18	660	<0.5	<2	<0.5	6	<1	<1	25	<10
264344	5750.00	7540.00	14	<2	96	<0.2	11.05	0.21	0.010	6.16	0.87	7.07	0.04	0.07	0.04	68.21	0.20	5.43	99.36	8	106	26	6	8	270	<0.5	<2	<0.5	7	<1	3	9	<10
264345	5925.00	7960.00	13	<2	68	<0.2	14.31	0.51	0.010	12.61	0.89	7.10	0.07	0.13	0.47	56.75	0.74	6.16	99.75	<5	58	23	5	8	170	<0.5	<2	0.5	17	<1	3	44	<10
264346	5925.00	7900.00	7	<2	16	<0.2	12.50	0.13	0.010	1.94	2.30	4.11	<0.01	0.19	0.05	74.80	0.23	3.78	100.04	9	125	33	11	25	570	<0.5	<2	<0.5	6	<1	<1	12	<10
264347	5930.00	7190.00	463	<2	48	0.6	12.24	0.03	0.010	3.05	2.21	1.98	<0.01	0.12	0.04	76.89	0.29	3.10	99.96	8	101	27	103	21	900	<0.5	2	<0.5	8	1	<1	6	<10
264348	5625.00	5260.00	26	20	84	<0.2	13.25	0.05	0.010	5.15	2.41	0.42	<0.01	0.25	0.05	74.61	0.30	3.64	100.14	8	102	32	19	28	710	<0.5	<2	<0.5	1	1	1	4	<10
264349	5600.00	6450.00	95	<2	100	0.2	11.22	0.10	<0.01	4.35	1.63	3.89	0.03	0.17	0.04	73.98	0.21	3.62	99.24	9	116	32	10	15	520	<0.5	2	<0.5	3	1	2	11	<10
264350	5680.00	5820.00	8	<2	84	<0.2	10.67	1.80	0.010	4.95	1.17	1.49	0.05	1.55	0.08	73.95	0.23	4.22	100.17	6	88	24	26	18	170	<0.5	<2	<0.5	4	<1	<1	6	<10
264351	5625.00	5560.00	7	<2	70	<0.2	9.50	0.06	0.010	2.29	0.78	0.20	<0.01	3.22	0.03	82.70	0.16	1.42	100.37	8	103	26	64	15	110	<0.5	<2	<0.5	1	<1	1	5	<10
264352	5750.00	5310.00	8	<2	120	<0.2	9.60	0.09	<0.01	4.66	1.77	2.76	0.04	0.09	0.04	76.93	0.14	3.43	99.55	7	94	19	12	23	530	<0.5	2	<0.5	8	<1	1	10	<10
264353	5500.00	8000.00	7	<2	132	<0.2	10.97	0.32	<0.01	14.68	0.08	7.53	0.03	0.07	0.12	60.05	0.31	5.41	99.57	<5	72	19	<5	<5	20	<0.5	<2	1	13	1	15	29	<10
264354	5480.00	8000.00	8	<2	28	<0.2	11.82	0.11	0.020	3.79	1.82	4.70	0.01	0.14	0.04	73.71	0.21	3.81	100.18	9	135	37	7	17	520	<0.5	<2	<0.5	5	<1	2	9	<10
264355	5250.00	7800.00	7	<2	22	<0.2	11.55	0.11	0.010	1.89	1.79	2.96	<0.01	0.34	0.04	77.26	0.21	3.31	99.47	7	126	41	18	18	530	<0.5	<2	<0.5	3	1	<1	7	<10
264356	5000.00	7600.00	7	<2	54	<0.2	12.17	0.14	0.020	6.28	1.62	3.14	0.01	0.35	0.08	72.01	0.24	3.82	99.88	7	103	27	20	20	620	<0.5	<2	<0.5	7	1	2	9	<10
264357	5060.00	7380.00	48	<2	104	<0.2	11.88	0.11	0.020	8.81	1.47	3.93	0.04	0.22	0.08	68.03	0.23	4.79	99.61	6	104	36	13	16	310	<0.5	<2	0.5	8	1	2	8	<10
264358	5750.00	5425.00	5	<2	132	<0.2	11.46	3.10	0.010	4.57	1.83	0.38	0.06	2.31	0.15	70.04	0.40	4.82	99.13	6	72	23	28	30	220	<0.5	<2	<0.5	3	<1	1	6	<10
264359	5770.00	4950.00	88	<2	48	<0.2	8.66	0.02	0.010	2.84	1.81	1.63	0.03	0.07	0.02	82.41	0.12	2.15	99.77	6	80	14	6	26	690	<0.5	<2	<0.5	3	1	1	6	<10
264360	5750.00	4250.00	34	<2	256	<0.2	15.35	5.81	0.010	9.38	0.34	3.24	0.38	5.45	0.11	51.49	0.55	7.63	99.74	<5	23	14	72	<5	160	<0.5	2	1	24	<1	12	212	10
264361	4280.00	5875.00	11	8	34	<0.2	8.48	0.07	0.020	2.77	1.35	0.39	<0.01	0.61	0.03	83.61	0.21	2.02	99.56	7	78	23	27	21	380	<0.5	<2	<0.5	2	2	5	10	<10
264362	5790.00	5450.00	6	<2	20	<0.2	10.22	<0.01	0.010	1.57	2.68	0.54	<0.01	0.08	0.03	82.31	0.16	2.23	99.83	8	105	18	11	35	830	<0.5	<2	<0.5	2	1	2	8	<10
264363	5800.00	5445.00	16	<2	160	<0.2	14.78	0.31	0.020	19.45	0.26	8.35	0.31	0.08	0.11	47.92	0.54	7.99	100.12	<5	23	14	11	<5	60	<0.5	<2	<0.5	25	1	20	228	10
264364	5600.00	3760.00	12	<2	174	<0.2	16.10	0.31	0.010	17.44	0.67	9.00	0.17	0.10	0.13	46.23	0.71	9.06	99.93	<5	24	12	22	6	330	<0.5	<2	1	31	2	18	275	<10

COPPER MOUNTAIN 1995
ACNC MAPPING PROGRAM

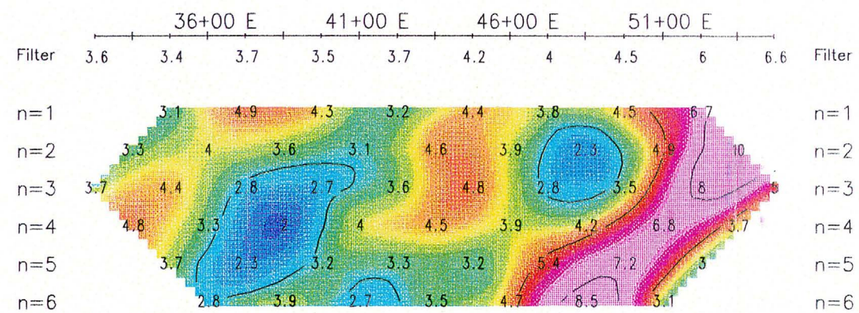
SAMPLE #	NORTHING	EASTING	G24 CU PPM	G24 PB PPM	G24 ZN PPM	G24 AG PPM	CXR AL2O3 %	CXR CAO %	CXR CR2O3 %	CXR FE2O3 %	CXR K2O %	CXR MGO %	CXR MNO %	CXR NA2O %	CXR P2O5 %	CXR SIO2 %	CXR TIO2 %	CXR LOI %	CXR TOTAL %	XRD NB PPM	XRD ZR PPM	XRD Y PPM	XRD SR PPM	XRD RB PPM	G24 BA PPM	G24 BE PPM	G24 BI PPM	G24 CD PPM	G24 CO PPM	G24 MO PPM	G24 NI PPM	G24 V PPM	G24 W PPM
264365	5600.00	3620.00	8	<2	38	<0.2	11.25	0.14	<0.01	2.25	2.94	2.26	0.01	0.09	0.05	77.27	0.16	3.37	99.79	6	104	21	8	41	730	<0.5	2	<0.5	4	<1	<1	10	<10
264366	5720.00	3215.00	8	<2	64	<0.2	9.08	0.04	0.010	8.66	1.05	3.27	0.06	0.10	0.07	73.65	0.22	3.36	99.57	6	81	22	5	16	440	<0.5	<2	<0.5	14	1	3	16	<10
264367	5840.00	3080.00	13	<2	64	<0.2	9.84	0.12	0.010	6.13	1.19	3.83	0.04	0.12	0.10	74.14	0.26	3.74	99.52	7	80	24	12	18	210	<0.5	<2	<0.5	9	1	<1	8	<10
264368	5625.00	2875.00	175	<2	176	<0.2	8.13	0.66	0.030	6.74	0.93	0.35	0.07	0.11	0.08	78.36	0.24	4.19	99.89	6	65	17	21	15	180	<0.5	<2	<0.5	8	1	2	8	<10
264369	5320.00	3160.00	293	<2	88	<0.2	16.67	0.37	<0.01	15.00	1.61	7.69	0.07	0.18	0.25	49.95	0.85	7.14	99.78	<5	40	19	11	17	350	<0.5	<2	0.5	25	4	4	367	<10
264370	5040.00	7750.00	957	<2	320	<0.2	14.68	0.10	<0.01	16.55	1.70	5.43	0.28	0.08	0.16	53.76	0.84	5.63	99.21	<5	47	20	6	23	460	<0.5	<2	0.5	30	<1	6	263	<10
264371	4990.00	6680.00	52	<2	98	<0.2	12.06	0.20	<0.01	3.64	1.75	0.36	<0.01	1.27	0.12	76.45	0.25	3.73	99.83	9	107	25	37	23	230	<0.5	<2	<0.5	4	1	1	8	<10
264372	5000.00	6220.00	10	<2	30	<0.2	7.71	0.02	0.010	2.05	1.39	0.28	<0.01	0.11	0.03	85.96	0.10	2.25	99.91	7	78	15	37	20	550	<0.5	2	<0.5	3	1	2	7	<10
264373	6085.00	5250.00	17	<2	10	<0.2	10.63	0.01	0.010	0.75	2.52	0.44	<0.01	0.16	0.02	83.63	0.14	1.92	100.23	7	93	18	11	39	1100	<0.5	<2	<0.5	2	<1	1	14	<10
264374	0.00	0.00	5	<2	26	<0.2	10.75	0.74	0.020	2.75	7.71	0.67	0.03	0.57	0.03	74.65	0.24	1.26	99.42	25	310	136	24	107	690	0.5	2	<0.5	3	2	6	16	<10
264375	6000.00	5125.00	141	<2	32	<0.2	9.66	0.01	0.010	3.43	2.23	1.27	0.01	0.11	0.04	79.31	0.13	2.62	98.83	7	81	18	5	29	700	<0.5	2	<0.5	4	1	4	8	<10
264376	5245.00	6300.00	3	<2	56	<0.2	11.83	1.27	0.010	2.62	0.73	0.56	<0.01	5.28	0.08	74.67	0.23	1.99	99.27	9	107	38	57	9	120	<0.5	<2	<0.5	4	<1	1	5	<10
264377	5500.00	6290.00	28	18	322	<0.2	13.06	0.09	0.010	6.94	2.14	2.11	0.01	0.27	0.08	70.51	0.30	4.27	99.79	8	106	34	15	27	540	<0.5	2	<0.5	4	1	2	6	<10
264378	6500.00	5400.00	12	<2	80	<0.2	12.72	0.33	0.010	7.69	1.43	4.84	0.05	0.17	0.22	66.90	0.50	5.01	99.87	6	68	23	12	15	430	<0.5	<2	<0.5	6	<1	1	30	<10
264379	5000.00	5600.00	13	<2	112	<0.2	12.94	0.16	0.020	5.28	2.62	2.23	0.10	0.28	0.14	71.49	0.43	3.75	99.44	9	96	29	22	40	770	<0.5	<2	<0.5	6	1	2	7	<10
264380	4975.00	3610.00	262	38	832	1.6	12.92	0.06	0.010	17.67	0.13	9.37	0.24	0.11	0.10	52.42	0.48	5.99	99.50	<5	27	11	7	<5	30	<0.5	<2	0.5	21	1	18	190	<10
264381	5650.00	3500.00	16	<2	440	<0.2	11.29	0.04	<0.01	13.34	0.66	6.44	0.11	0.08	0.08	62.19	0.16	5.31	99.70	7	101	17	<5	8	140	<0.5	<2	0.5	15	<1	4	21	<10
264382	5420.00	6000.00	5	<2	38	<0.2	10.67	0.11	0.020	2.16	1.21	0.42	<0.01	2.74	0.01	79.66	0.19	2.38	99.57	8	116	23	31	21	180	<0.5	<2	<0.5	2	1	2	5	<10
264383	5485.00	5800.00	5	<2	266	<0.2	13.91	0.17	<0.01	19.00	1.00	3.62	0.03	0.14	0.22	55.10	0.54	6.35	100.08	5	78	24	13	13	180	<0.5	<2	<0.5	29	<1	5	15	<10
264384	5500.00	5290.00	15	<2	108	<0.2	18.97	0.42	0.010	11.65	1.03	7.13	0.38	3.92	0.19	49.96	0.79	5.68	100.13	<5	39	18	36	19	590	<0.5	<2	0.5	32	<1	16	262	<10
264385	5250.00	5470.00	11	<2	112	<0.2	12.25	0.28	0.010	5.46	1.28	1.39	0.09	3.78	0.11	71.59	0.34	2.76	99.34	7	93	31	30	16	300	<0.5	<2	<0.5	4	<1	<1	13	<10
264386	5330.00	5250.00	29	<2	268	<0.2	10.97	0.11	0.010	5.52	2.15	3.65	0.10	0.11	0.04	73.12	0.26	3.46	99.50	8	98	28	<5	30	530	<0.5	2	<0.5	4	<1	<1	6	<10
264387	5480.00	3660.00	9	<2	164	<0.2	16.92	0.36	0.020	23.59	0.40	8.74	0.30	0.10	0.14	39.56	0.55	9.23	99.91	<5	23	15	10	5	90	<0.5	<2	0.5	37	2	22	252	<10
264388	5160.00	4230.00	6	<2	32	<0.2	10.60	0.07	0.010	2.40	2.31	0.86	0.01	0.37	0.03	80.78	0.15	2.33	99.92	8	100	17	24	31	690	<0.5	<2	<0.5	6	1	2	12	<10
264389	5005.00	4395.00	28	<2	62	<0.2	16.78	5.60	0.020	8.87	0.13	4.45	0.15	6.06	0.12	50.49	0.65	6.83	100.15	5	28	13	76	<5	90	<0.5	<2	0.5	22	<1	17	266	10
264390	5335.00	4885.00	61	<2	186	<0.2	12.01	0.15	<0.01	5.48	2.46	2.41	0.06	0.16	0.12	72.84	0.33	3.62	99.64	7	86	24	17	39	640	<0.5	<2	<0.5	4	<1	2	13	<10
264391	0.00	0.00	5	<2	26	<0.2	10.68	0.77	0.020	2.77	7.71	0.69	0.03	0.58	0.03	74.47	0.24	1.24	99.23	26	317	135	22	102	690	0.5	<2	<0.5	3	3	6	16	<10



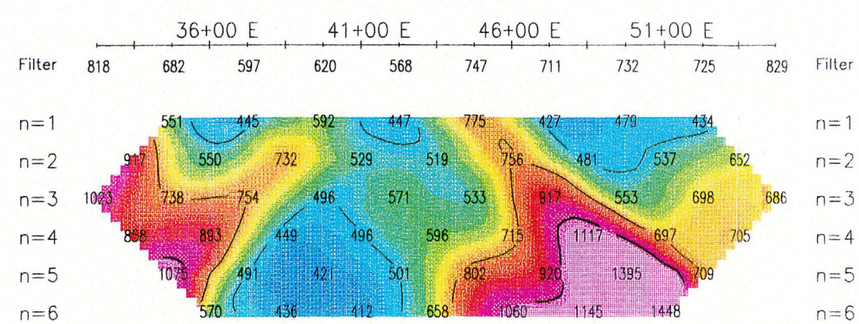
Metal Factor
(IP / Resistivity) *1000



IP
Chargeability, msecs

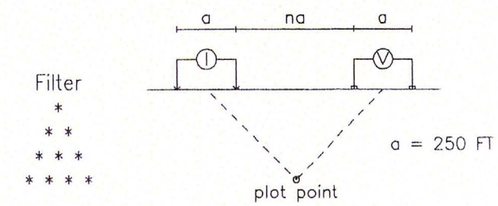


Resistivity
Ohm-meters



Line 9500 N

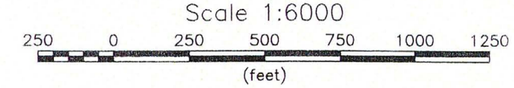
Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, . .

INTERPRETATION

Scale 1:6000

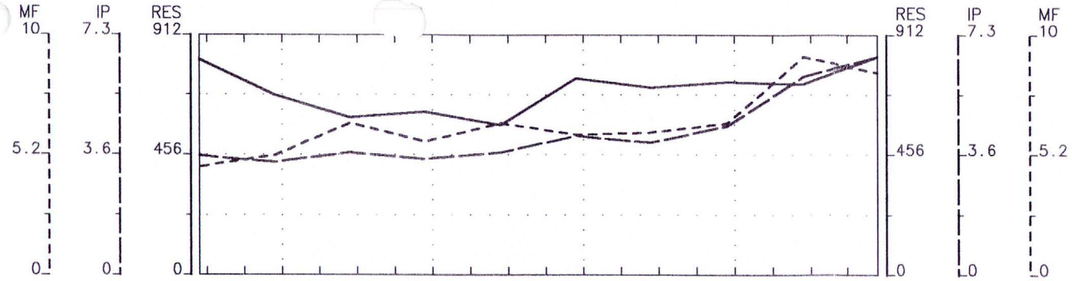


American Copper & Nickel Company

INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

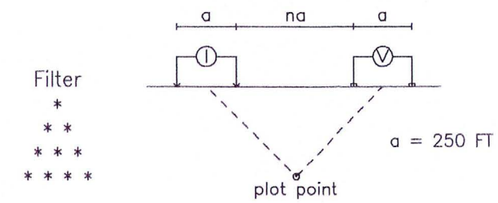
Date: 96/06/18
Interpretation: Garry J. Carlson

Gradient Geophysics



Line 9500 N

Dipole-Dipole Array



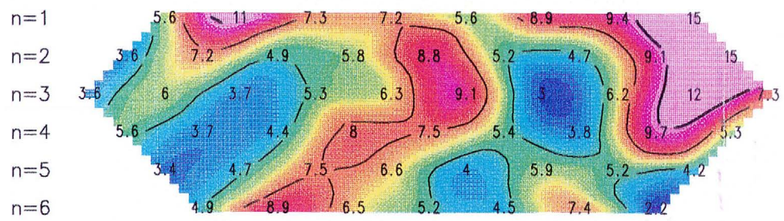
Filter
*
* *
* * *
* * * *

a = 250 FT

Metal Factor
(IP / Resistivity) *1000

36+00 E 41+00 E 46+00 E 51+00 E

Filter 4.7 5.2 6.6 5.8 6.6 6.1 6.2 6.6 9.5 8.8



IP
Chargeability, msecs

36+00 E 41+00 E 46+00 E 51+00 E

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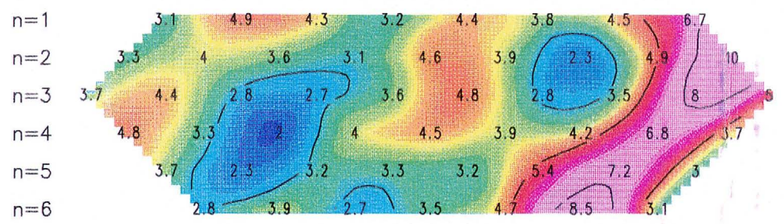

Resistivity
Ohm-meters

36+00 E 41+00 E 46+00 E 51+00 E

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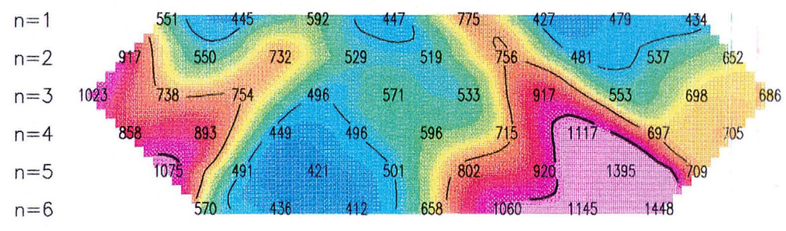


Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, . .

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250
(feet)

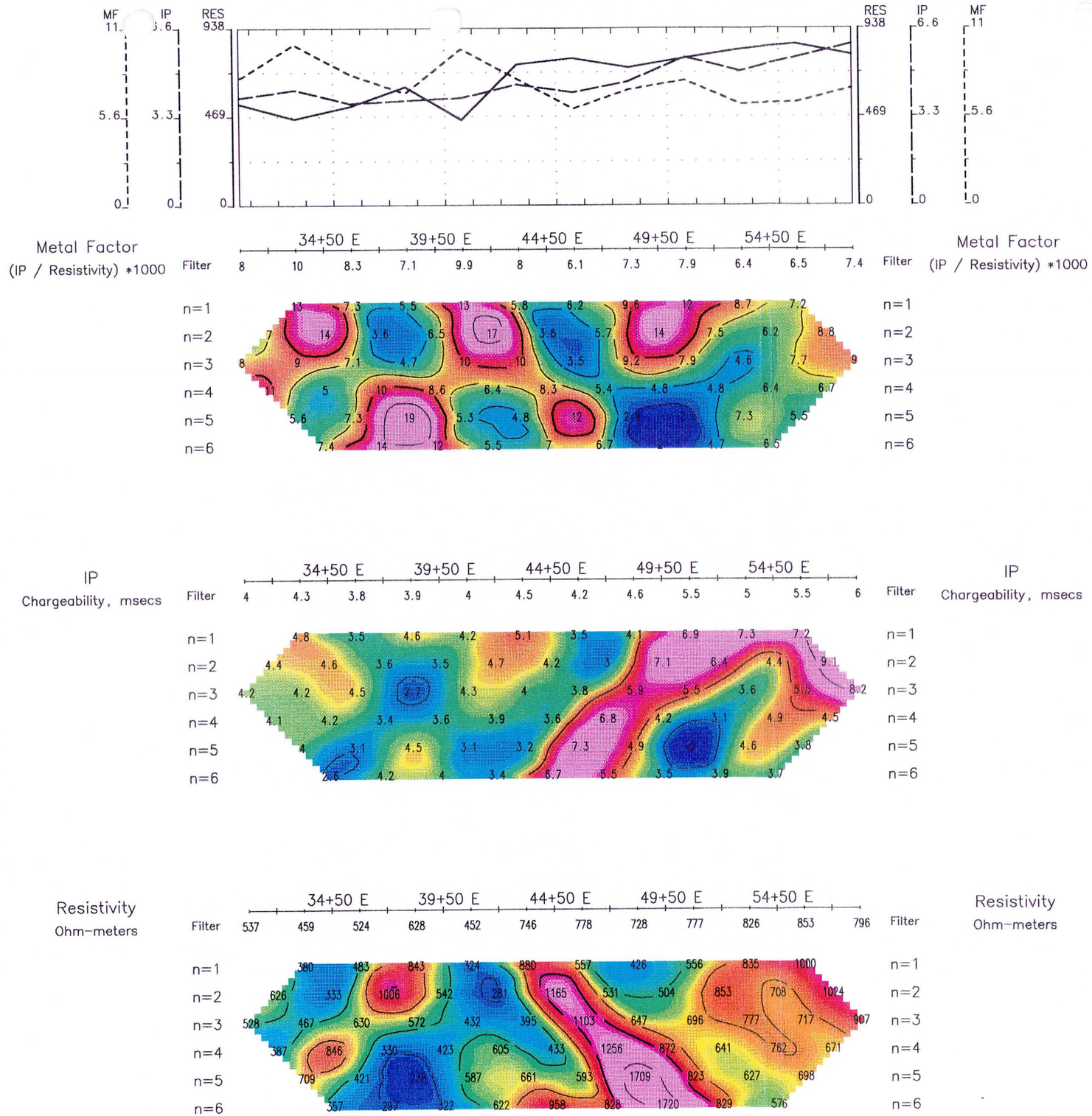
American Copper & Nickel Company

INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

Date: 96/06/18
Interpretation: Garry J. Carlson

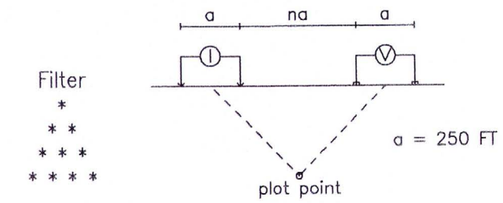
Gradient Geophysics

Geosoft Software for the Earth Sciences



Line 10000 N

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250

(feet)

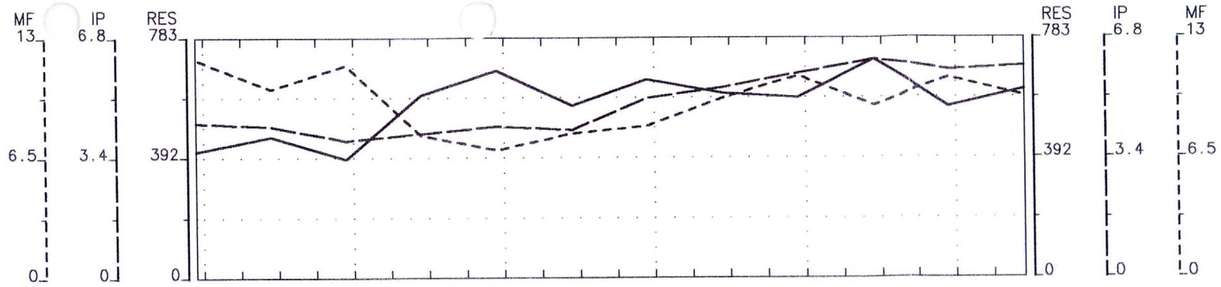
American Copper & Nickel Company

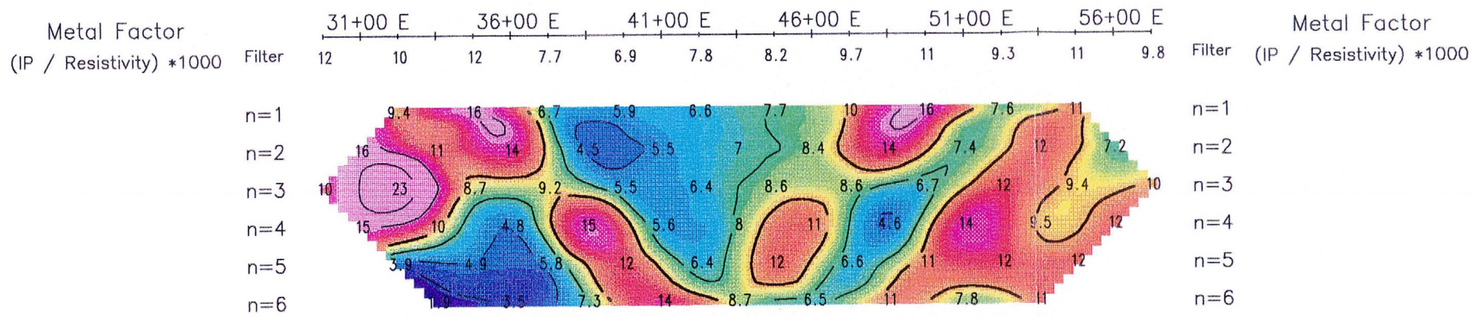
INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

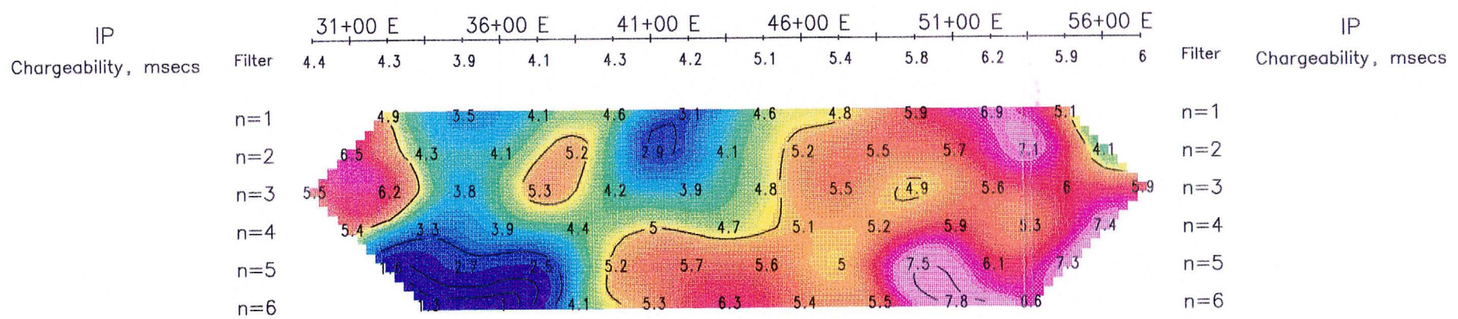
Date: 96/07/12
Interpretation: Garry J. Carlson

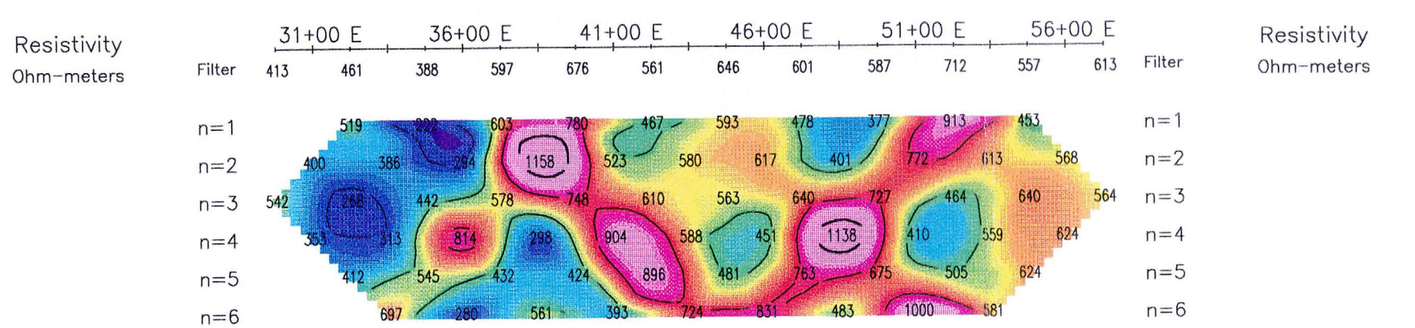
Gradient Geophysics

Geosoft Software for the Earth Sciences

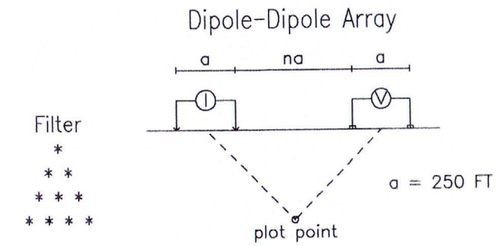








Line 10500 N



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, . .

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250

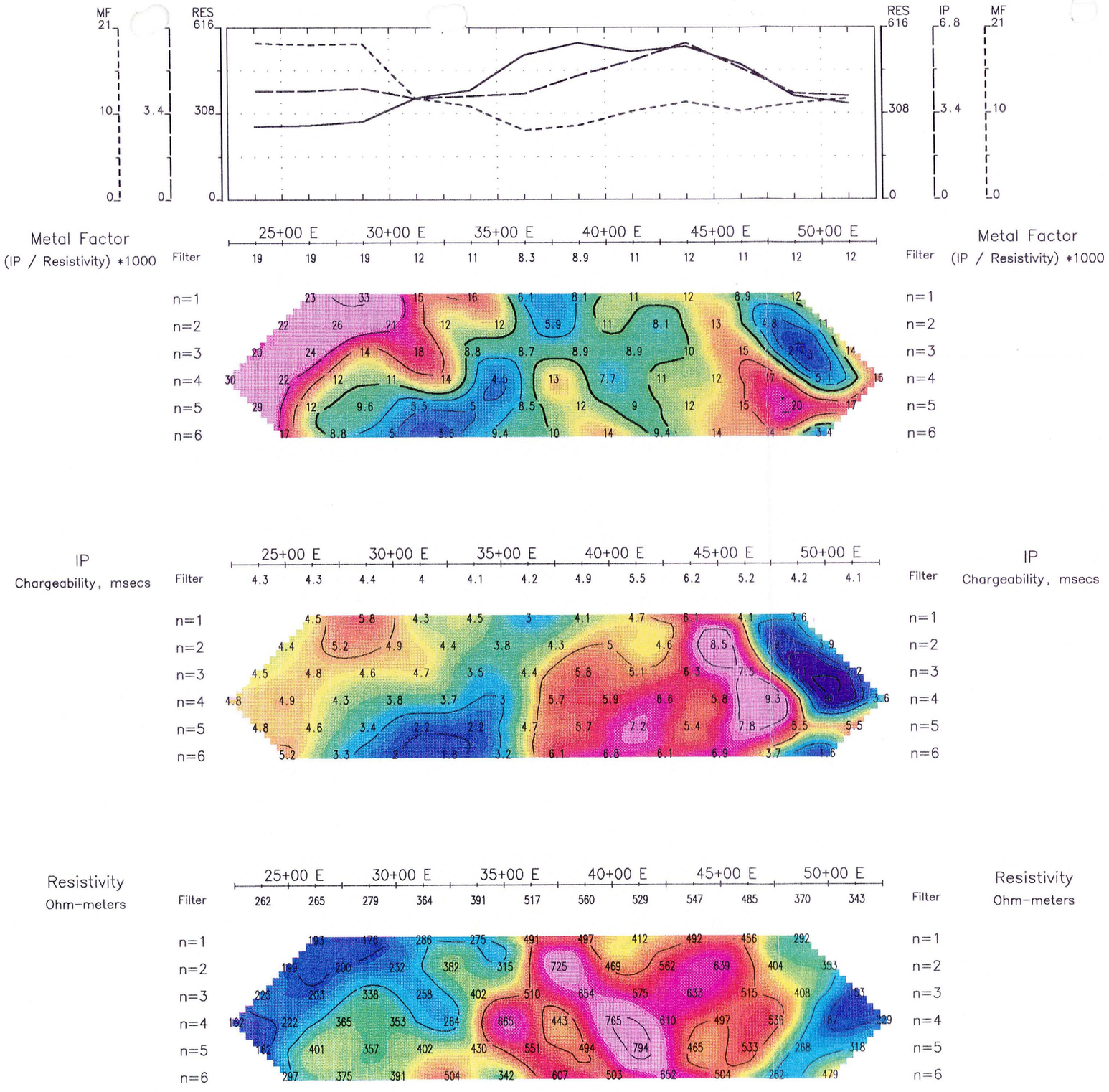
(feet)

American Copper & Nickel Company

INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

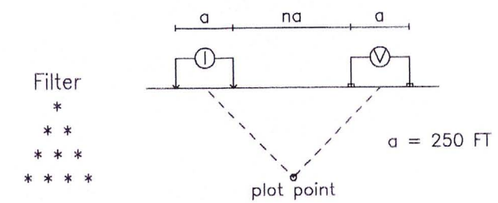
Date: 96/06/18
Interpretation: Garry J Carlson

Gradient Geophysics



Line 11000 N

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Scale 1:6000

250 0 250 500 750 1000 1250

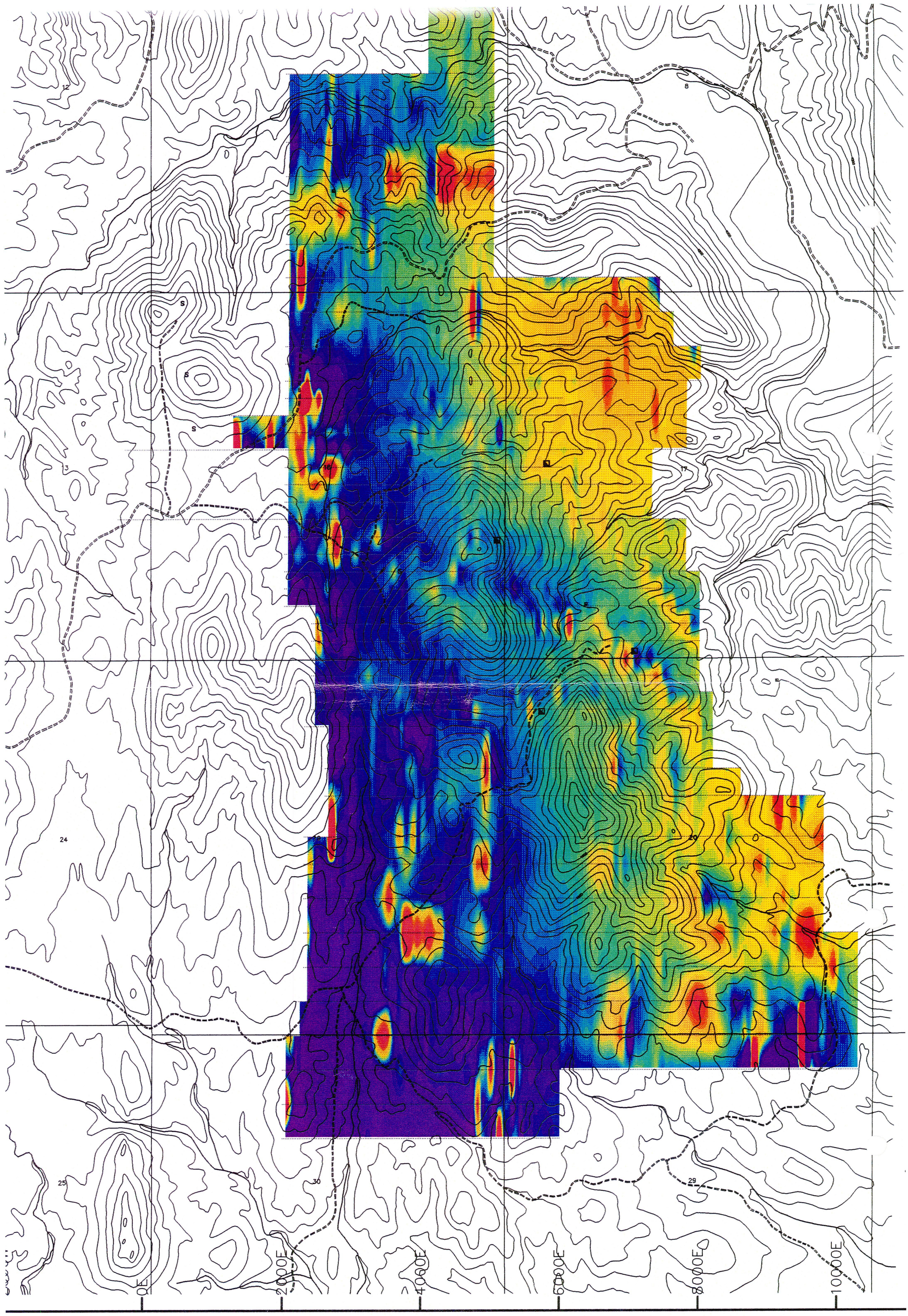
(feet)

American Copper & Nickel Company

INDUCED POLARIZATION SURVEY
COPPER MOUNTAIN PROJECT
YAVAPAI COUNTY, ARIZONA

Date: 96/06/18
Interpretation: Garry J. Carlson

Gradient Geophysics



Ground Magnetic Survey

Copper Mountain/Copper Queen Proje
Yavapai County, Arizona

ACNC

PRINTED: 11-27-2006

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: STONEWALL

ALTERNATE NAMES:
PATENTED CLAIMS MS 4601
LONE STAR
MISSING LINK

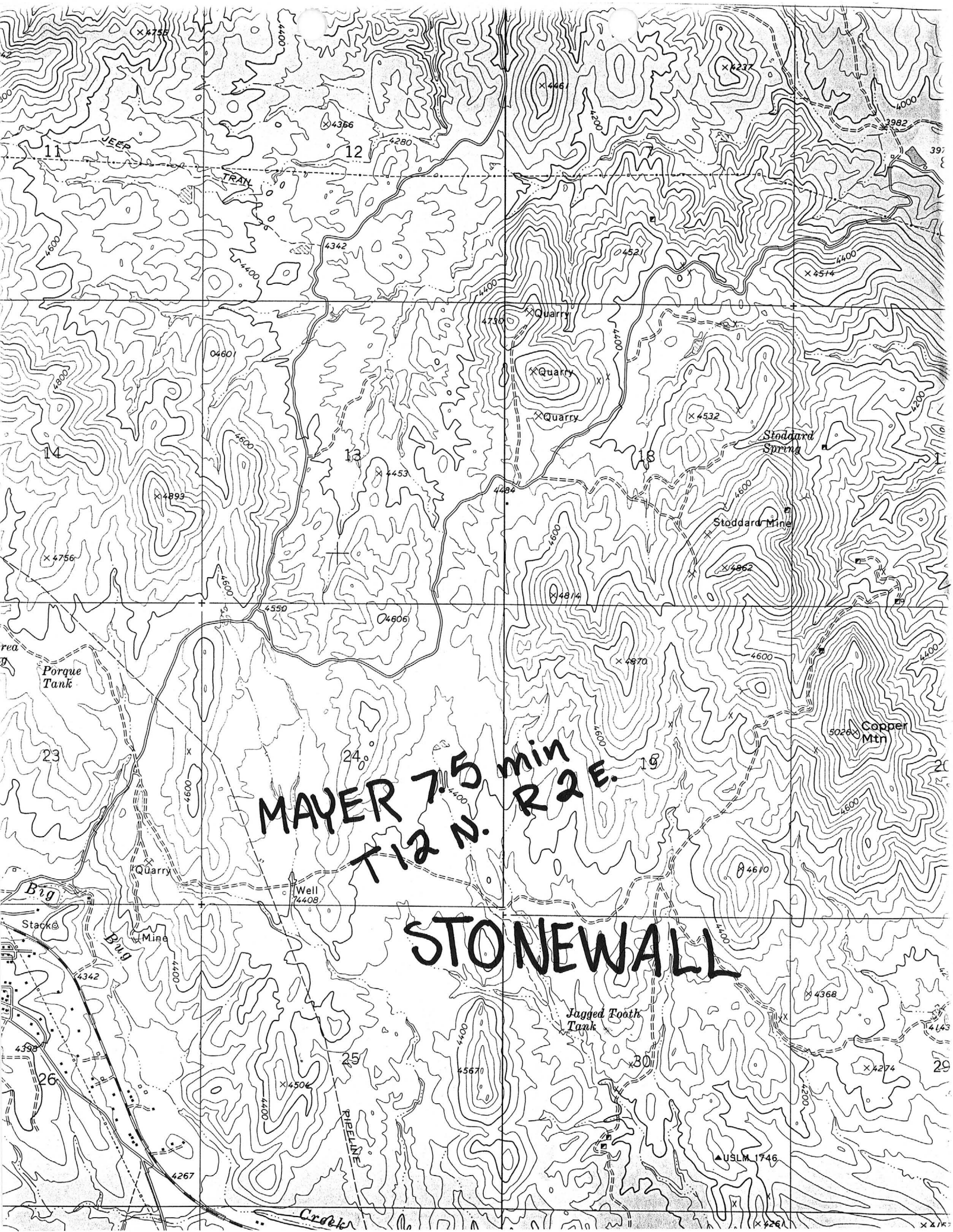
YAVAPAI COUNTY MILS NUMBER: 1015A

LOCATION: TOWNSHIP 12 N RANGE 2 E SECTION 18 QUARTER NE
LATITUDE: N 34DEG 25MIN 40SEC LONGITUDE: W 112DEG 11MIN 07SEC
TOPO MAP NAME: MAYER - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
COPPER OXIDE
GOLD
SILVER
ZINC
GEMSTONE PY IN SCHIST

BIBLIOGRAPHY:
USGS MAYER QUAD
BLM MINING DISTRICT SHEET 45
ADMMR STONEWALL MINE FILE


MAYER 7.5 min
T12 N. R2E.
STONEWALL
JEEP TRAIL
Quarry
Quarry
Quarry
Stoddard Spring
Stoddard Mine
Copper Mtn
Porque Tank
Quarry
Well
Stack
Mine
Big Bug Creek
Jagged Tooth Tank
PIPELINE
USLM 1746
11
12
13
14
18
19
23
24
25
26
29
30

Arizona Department of Mines and Mineral Resources
Verbal Information Summary

Mine: Stonewall
County: Yavapai
Location: T12N, R2E, Sec. 18, 7

Date: February 10, 1998
Engineer: Nyal Niemuth

Information from:
Margaret and Edward Kennedy
905 E. Ranch Road
Tempe, AZ 85284
602-839-1808

Margaret Kennedy reports that she and Edward own the three patented mining claims comprising the Stonewall Mine (f) Yavapai Co. American Copper and Nickel (INCO) dropped their lease on the property last year and have provided them with reports, data, and maps generated from their exploration work. The work covers surrounding areas previously held by unpatented mining claims. The Kennedy's also have data from earlier exploration activity by other companies.

They are interested in selling the claims (surface rights other than those necessary for mining belong to the State Land Department). To facilitate a sale and preserve the data they are willing to loan us their data, reports, and maps so that it may be copied and placed on file at ADMMR.

Copy from Nomady
2/18/94

GORDON E. GUMBLE
6293 Ponderosa Way
Parker, Colorado 80134

July 1, 1986

Mr. and Mrs. Kennedy
905 Ranch Road
Tempe, AZ 85284

Dear Mr. and Mrs. Kennedy:

As promised, find the enclosed sample location map and analytical results. Samples north of the red line on the sketch map have the prefix KEN - those south of the line have the prefix STD. Your trailer is shown with a purple mark and the quartz vein where we first met is sample KEN 11. The sampling of the area shows that interesting, but uneconomic, gold values occur in most quartz veins (major quartz zones are shown in solid black/green). KEN 11 did not have much gold. This fact, coupled with what you told me, strongly suggests small nuggets are scattered randomly through the quartz. The blue lines on the sketch map show the extent of altered (usually just iron stain) rock.

I suspect that making a living from these randomly scattered little nuggets would prove to be very hard work and provide barely adequate income for even one family. Sample KEN 16 is the most encouraging in the whole area from the viewpoint of open pit mining. It is collected from the rocky east bank of your creek, a few hundred feet upstream from the waterfall. I've described this in my official company report, but have no idea whether or not Molycorp, Inc. will follow-up. My last day with them is now July 15 and, as yet, I have not found a new job. I'm sorry I did not find anything more promising on your property. Just because I did not find something does not mean it is not there somewhere!

Best wishes,

Gordon E. Gumble

Gordon E. Gumble

Enclosure

Copy thru Kennedy
2/18/89

/Western Property
Specialists Inc.
1555 Iron Springs Rd., Suite 39
Prescott, Arizona 86301
(602) 445-9354

K. Mastern
Broker

DIRECTORY OF CURRENT IREN/WESTERN PROPERTY SPECIALISTS INC.
MINING, RANCHING, COMMERCIAL, INDUSTRIAL AND ACREAGE
LISTINGS

DECEMBER 1, 1985
VOL. 1, NO. 3

Page 5 cont

COMPILED BY RICHARD J. LUNDIN,
LICENSED REAL ESTATE PROFESSIONAL IN THE STATE OF ARIZONA,
MINING PROPERTY AND MINERAL INDUSTRY INVESTMENT SPECIALIST
AND VICE PRESIDENT-GENERAL MANAGER
IREN/WESTERN PROPERTY SPECIALISTS INC.

YAVAPAI COUNTY, ARIZONA MINING PROPERTIES

I.D. NUMBER	PROPERTY DESCRIPTION

WPS001 Hillside Gold Project-Property consists of 1820 acres of State of Arizona Prospecting Permits in T. 13N, R. 6W G&SRB&M. Gold-silver mineralization is associated with an extensive fracture system in Precambrian granite, granite gneiss, alaskite and diabase. Approximately 9000' of the mineralized strike length of the system is exposed with the extensions of the system concealed by post-mineral volcanic cover. Gold values vary over a 5-50' thickness from .001 to .624 ozs. Au/T. An excellent potential exists for several, bulk-tonnage, gold-silver deposits. A recent, shallow, 6 hole diamond drilling program that did not reach the main mineralized horizon on the property intercepted mineralized fracture systems in hanging wall lithologies. The weighted average of intercepts for five of the holes was 36.7 feet that averaged .021 ozs. Au/T. The property is currently available on a joint venture basis and may be available on lease-option basis. (FOR FURTHER, DETAILED INFORMATION CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS001)

WPS002 Binghampton Mine-The property is an old Copper-Gold producer that has been the target of several major company exploration efforts over the last 20 years. The property consists of 17 patented claims and is located in T. 12 1/2 & 13 N R. 2E G&SRB&M (Recent work has delineated a gold bearing assemmblage of folded and sheared, pyritic-chloritic Precambrian felsic lithologies. Incomplete data indicates that some of the underground workings of the property encountered thick sections of pyritic, felsic material that contain anomalous to near-ore grade gold mineralization. The copper-rich portions of the property were drilled in the 1960's by AMSELCO. From the limited data available, it appears that there exists an excellent potential for a bulk-tonnage, gold-copper deposit. The property is currently available on a sale or lease-option basis with any agreement having to be approved by the Bankruptcy Court. (FOR FURTHER, DETAILED INFORMATION CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS002)

WPS003 Pacific Mine(East)-property is an old Copper-Silver-Gold-Zinc Producer that is located in T. 9N, R. 1W G & SRB&M. The property consists of 7 Patented claims. Recent work on the property has delineated a series of parallel vein systems in altered Precambrian volcanics and sediments. From recent underground and surface sampling efforts that are largely undocumented, it appears that there is the potential for up to 40,000,000 tons of material that may grade up to: 16.1% Cu, 24.4 ozs. Ag/T. and .139 ozs. Au/T. There is a considerable dump on the property that is reported to contain significant base and precious metal values. The property is currently available on a sale or lease-option basis. (FOR FURTHER, DETAILED INFORMATION CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS003)

WPS004 Pacific Mine(West)-Property is an old Copper-Silver-Gold-Zinc producer that is located in T. 9N, R. 1W G&SRB&M. The Property consists of 3 Patented claims. Recent work on the property has delineated a series of parallel vein systems in altered Precambrian volcanics and sediments. From recent underground and surface sampling efforts that are largely undocumented, it appears that there is the potential for up to 40,000,000 tons of material that may grade up to: 16.1% Cu, 24.4 ozs. Ag/T. and .139 ozs. Au/T. The property is currently available on a sale or lease-option basis.(FOR FURTHER, DETAILED INFORMATION CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS004)

WPS005 Borrie Group-Property is an old Gold producer that is located in T. 11N, R. 1E G &SRB&M. The property consists of 183 acres of patented lode claims. Gold values are associated with remobilized quartz vein systems in Precambrian metasediments. The developement potential is virtually unknown. The property is currently available on a sale or lease/option basis. (FOR FURTHER, DETAILED INFORMATION CALL IREN/WPS AND REQUEST SUMMARY WPS005)

WPS006 Defiance Claim-Property consists of a single patented claim (Defiance) that is reported to have had some base and precious metal production and is located adjacent to WPS007 and WPS009 in T. 12N, R. 2E G&SRB&M. The property is located on trend with the Stoddard Mine, an early day gold-copper producer in an area of intense exploration activity by several major mining companies. From the information available, it appears that there is considerable potential for several small tonnage, high grade gold-copper deposits in association with remobilized quartz veins in the Precambrian volcanic units. The property is currently available for purchase or lease-option. (FOR FURTHER DETAILED, INFORMATION CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS006)

WPS007 Halle Ranch Property-Property consists of 730 acres of patented lode claims and deeded lands with mineral rights adjacent to WPS006, WPS008, WPS009, WPS010 & WPS011 in T. 12N, R. 2E G & SRB&M in an area of intense exploration activity by several major mining companies. From the fragmentary information available, it appears that there was some copper-gold production from many of the workings on the property. Recent work in the area by Newmont Exploration Ltd. has confirmed the exhalative nature of the original mineralization. There exists on the property an excellent potential for intermediate size (3-5 Million ton) syngenetic or remobilized gold-copper deposits associated with a proximal volcanic system in the older Precambrian volcanic units. The property is currently available on a sale or lease/option basis. (FOR FURTHER DETAILED INFORMATION CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS007)

WPS008 Stoddard Mine(East)-Property consists of 7 patented lode claims that had some past gold-copper production and is adjacent to WPS007, WPS009, WPS010 & WPS011 in T. 12N, R. 2E G & SRB&M. The property is in an area of intense exploration activity by several major mining companies. From the limited information available it appears that there are several areas within the claim group that have anomalous copper and gold values associated with sulphide facies exhalites. Recent work on the property by Newmont Exploration Ltd. confirmed the exhalative nature of the original mineralization. There exists on the property and excellent potential for intermediate size (3-5 Million ton) syngenetic or remobilized gold-copper deposits associated with a proximal volcanic system in the older Precambrian volcanic units. The property is currently available for sale or lease/option. (FOR FURTHER DETAILED INFORMATION ON THIS PROPERTY CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS008)

WPS009 Stoddard Mine(West)-Property consists of 5 patented lode claims that had considerable past gold-copper production. The property is located adjacent to WPS 006, WPS 007, WPS 008, WPS 009, WPS 010 & WPS 011 in T. 12N, R. 2E G &SRB&M in an area of intense exploration activity by several major mining companies. From the information available, it appears that there are several areas within the old workings that have anomalous to ore grade gold values (.02-2.62 ozs. Au/T.). Recent work on the property by Newmont Exploration Ltd. confirmed the exhalative nature of the original mineralization. There exists on the property an excellent potential for intermediate size (3-5 Million ton) syngenetic or remobilized gold-copper deposits associated with a proximal volcanic system in the older Precambrian volcanic units. The property is currently available on a purchase or lease/option basis. (FOR FURTHER, DETAILED INFORMATION CALL IREN/WPS AND REQUEST SUMMARY WPS009)

WPS013 Standard Extension Placer Group-This property is an old group of unpatented placer claims in T. 12N R. 2E G & SPB&M. There was probably some minor production of placer gold from this property prior to 1900 but the bulk of the property remains unworked and untested. The property is available for sale. (FOR FURTHER, DETAILED INFORMATION, CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS013)

WPS015 Skull Valley Placer Group- This property consists of 700 acres of State of Arizona Prospecting Permits in T. 13N, R. 4W G & SRB&M. There was probably ome production of placer gold from the property in the 1930's but the bulk if the property remains unworked and untested. The property is available for sale or lease. (FOR FURTHER, DETAILED INFORMATION, CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS015)

MOHAVE COUNTY, ARIZONA PROPERTIES

WPS014 Leviathan Mine-This property consists of 7 patented lode claims in T. 17N R. 14W G & SRB&M. The property was an old copper-molybdenum producer during World War I. Recent work on the property has delineated extensive areas of quartz-sericite alteration associated with copper-molybdenum-tungsten mineralization. Reported inferred reserves of molybdnum and copper within the existing workings are: 1-5 Million pounds of molybdenum disulphide and 2-3 million pounds of copper with associated lead, zinc, tungsten, silver and gold credits. There exists an excellent potential for additional, bulk-tonnage, copper-molybdenum-tungsten-gold deposits. The property is available for lease or sale. (FOR FURTHER DETAILED, INFORMATION CALL OR WRITE IREN/WPS AND REQUEST SUMMARY WPS014)

CANADIAN MINING PROPERTIES

WPS017 Barker Creek Placer Group-This property consists of unpatented lode and placer claims in the Dawson Mining District, Yukon Territory, Canada. Prior to 1980, there was an estimated 8,000-10,000 ounces of gold production from this property. Recent testing by the owners indicate that there is the potential for several 1-10,000,000 yard deposits that may average between .035 and .053 ounces/cubic yard ($10.50-$15.90 (U.S.) @ $300//Tr. Oz.). The average of values recovered from the recent testing program was $17.00/cubic yd. The bulk of the property remains undeveloped and untested. The property is available for sale or lease. (FOR FURTHER, DETAILED, INFORMATION CALL IREN/WPS AND REQUEST SUMMARY WPS017)

INFORMATION FROM SOURCES DEEMED RELIABLE BUT IS NOT GUARANTEED BY IREN/WPS AND IS SUBJECT TO CHANGE OR WITHDRAWAL WITHHOUT NOTICE.

ATTACHMENT "C"

MEMORANDUM:

FROM: _____
(NAME)

_____
(ORGANIZATION)

_____
(ADDRESS)

TO: Richard J. Lundin, Vice President & General Manager
IREN/Western Property Specialists Inc.

RE: IREN/Western Property Specialists Inc. Listings & Investment Opportunities

I would appreciate further, detailed information on the following properties or investment opportunities:

Yavapai County, Arizona Mining Properties

[]	WPS001	Hillside Gold Project
[]	WPS002	Binghampton Mine
[]	WPS003	Pacific Mine(East)
[]	WPS004	Pacific Mine(West)
[]	WPS005	Borrie Grp.
[]	WPS006	Defiance Claim
[]	WPS007	Halle Ranch
[]	WPS008	Stoddard Mine(East)
[]	WPS009	Stoddard Mine(West)
[]	WPS010	Lone Star Patented Claim Group
[]	WPS011	Lone Star Unpatented Claim Group
[]	WPS012	Bell Ranch
[]	WPS013	Standard Extension Placer
[]	WPS015	Skull Valley Placer

Mohave Co., Arizona Mining Properties

[]	WPS014	Leviathan Mine

Canadian Mining Properties

[]	WPS017	Barker Creek Placer

I would be best served by offices in [] Tucson [] Prescott

[] I would like the information sent to my attention.

[] I would like the information sent to the following individuals within my organization:_____

_____

_____

[] I would like to receive FREE copies of IREN/Western Property Specialists' Monthly Directory of Current Mining, Ranching, Commercial, Industrial and Acreage Listings and Mineral Industry Investment Opportunities.

Copy from Kennedy
2/28/98

Mr. and Mrs. Kennedy
905 Ranch Road
Tempe, AZ 85284

Dear Mr. and Mrs. Kennedy:

As promised, find the enclosed sample location map and analytical results. Samples north of the red line on the sketch map have the prefix KEN - those south of the line have the prefix STD. Your trailer is shown with a purple mark and the quartz vein where we first met is sample KEN 11. The sampling of the area shows that interesting, but uneconomic, gold values occur in most quartz veins (major quartz zones are shown in solid black/green). KEN 11 did not have much gold. This fact, coupled with what you told me, strongly suggests small nuggets are scattered randomly through the quartz. The blue lines on the sketch map show the extent of altered (usually just iron stain) rock.

I suspect that making a living from these randomly scattered little nuggets would prove to be very hard work and provide barely adequate income for even one family. Sample KEN 16 is the most encouraging in the whole area from the viewpoint of open pit mining. It is collected from the rocky east bank of your creek, a few hundred feet upstream from the waterfall. I've described this in my official company report, but have no idea whether or not Molycorp, Inc. will follow-up. My last day with them is now July 15 and, as yet, I have not found a new job. I'm sorry I did not find anything more promising on your property. Just because I did not find something does not mean it is not there somewhere!

Best wishes,

34,000 PPB = 1 ounce

Bondar-Clegg, Inc.
12980 West Cedar Dr.
Lakewood, Colorado
U.S.A. 80228
Phone: (303) 989-1404
Telex: 45-693

BONDAR-CLEGG

Geochemical Lab Report

PPB = parts per billion PPM = parts per million

Gold Mercury Copper Zinc Arsenic Thallium Molybdenum Antimony Silver Lead

REPORT: 056-0605 PROJECT: NONE LISTED PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Hg PPB	Cu PPM	Zn PPM	As PPM	TL PPM	Mo PPM	Sb PPM	Ag PPM	PB PPM
R2 KEN-01		85	510	>20000	163	446	<1.0	9	8	7.2	26
R2 KEN-02		<5	275	114	192	12	<1.0	3	<5	<0.2	56
R2 KEN-03		<5	215	122	198	88	<1.0	4	<5	<0.2	104
R2 KEN-04		10	490	200	229	207	<1.0	5	<5	<0.2	16
R2 KEN-05		65	70	34	157	41	<1.0	2	<5	0.2	41
R2 KEN-06		15	<30	49	28	138	<1.0	2	<5	<0.2	7
R2 KEN-07		5	20	3300	34	46	<1.0	2	<5	0.5	5
R2 KEN-08		<5	60	90	224	64	<1.0	6	<5	<0.2	5
R2 KEN-09		50	60	47	12	558	<1.0	1	<5	<0.2	11
R2 KEN-10		20	80	5700	144	168	<1.0	8	<5	6.6	8
R2 KEN-11		10	55	210	64	102	<1.0	3	27	0.3	24
R2 KEN-12		20	2700	386	1500	507	<1.0	2	<5	0.7	19
R2 KEN-13		30	2400	498	1900	200	<1.0	4	<5	1.4	770
R2 KEN-14		220	260	97	122	>2000	<1.0	3	16	0.7	77
R2 KEN-15		<5	700	78	297	101	<1.0	3	<5	<0.2	40
R2 KEN-16		320	410	2200	114	>2000	<1.0	6	69	<0.2	142
R2 KEN-17		10	650	8000	120	611	<1.0	5	10	0.5	84
R2 KEN-18		25	335	1269	121	683	<1.0	3	286	0.2	13
R2 KEN-19		280	1500	5400	70	1300	<1.0	2	26	2.2	47
R2 KEN-20		200	390	465	126	1200	<1.0	4	17	4.6	363
R2 STD-01		25	2350	1188	1200	791	<1.0	8	7	1.0	264
R2 STD-02		380	850	225	72	>2000	<1.0	2	165	1.1	28
R2 STD-03		5	150	159	185	72	<1.0	8	<5	<0.2	15
R2 STD-04		130	>5000	173	750	55	<1.0	6	9	8.6	975
R2 STD-05		620	>5000	1900	900	>2000	<1.0	4	45	9.4	680
R2 STD-06		60	950	571	1350	47	<1.0	<1	<5	1.8	218
R2 STD-07		60	50	195	34	515	<1.0	<1	<5	<0.2	9
R2 STD-08		85	1500	15000	276	>2000	<1.0	4	25	5.0	55
R2 STD-09		220	>5000	>20000	243	>2000	<1.0	13	1803	22.0	88
R2 STD-10		150	310	>20000	18	>2000	<1.0	11	40	1.8	41
R2 STD-11		180	140	2500	14	>2000	<1.0	<1	7	0.4	7
R2 STD-12		<5	55	180	16	188	<1.0	<1	<5	<0.2	4
R2 STD-13		<5	50	55	23	42	<1.0	<1	6	<0.2	5
R2 STD-14		50	335	657	750	1900	<1.0	17	37	0.4	43
R2 STD-15		130	>5000	>20000	490	1400	<1.0	38	13	14.0	139
R2 STD-16		20	90	393	35	725	<1.0	23	70	0.6	54
R2 STD-17		10	25	1286	59	110	<1.0	4	12	<0.2	12
R2 STD-18		20	100	3990	124	265	<1.0	8	25	<0.2	9
R2 STD-19		280	3500	>20000	74	>2000	<1.0	8	68	2.6	53
R2 STD-20		<5	40	111	29	14	<1.0	2	<5	<0.2	3

KEN SAMPLE DESCRIPTIONS

KEN 01 Rock chip. Irregular, branching fault (?) zone 2-4 feet thick exposed by several old adits. Rock bleached white and riddled by a stockwork of fractures filled (up to 1" thick) with hematite and limonite. Streaks of green and blue copper oxide common.

KEN 02 Rock chip from creek bank. Zone tens of feet wide parallel to N20E foliation has veins (filled fractures) like KEN 01 (but only about 1/4" thick). No copper oxide, not quite a real stockwork, rare veins/fracs parallel foliation - most cut @ very acute angle. Original rock may be volcanic breccia/conglomerate.

KEN 03 Rock chip. Similar to KEN 02, except a 20 foot thick zone has xenoliths/clasts up to bushel basket size and much more iron stain thruout very green (chlorite) rock. Often see disem. pyrite, but no copper oxide.

KEN 04 Rock chip. Very short adit associated with 4-5' thick quartz zone (fault?).

KEN 05 Rock chip. Similar to KEN 01, except not really a true stockwork of fractures. Zone about 30' thick, no copper oxide.

KEN 06 Rock chip. Jaspery (white quartz with hematite) looking zone flanking rhyolite. A few quartz-limonite veins.

KEN 07 Rock chip. Zone like KEN 06, except on "other" side of rhyolite. More limonite and rare, green copper oxide streaks.

KEN 08 Rock chip. Abrupt onset of very highly iron stained core about 100' west of quartz/rhyolite zone. Sample includes a few quartz-iron veins.

KEN 09 Rock chip. Mangled west wallrock to quartz/rhyolite zone. Sample includes many quartz-iron veins up to 1" thick.

KEN 10 Rock chip. Outcrop in creek near fence. Sample includes northwest striking quartz-iron veins up to 2" thick with minor copper oxide. Zone about 50' wide.

KEN 11 Rock chip. Outcrop in creek next to fence. Many irregular, flat-lying quartz-iron viens up to 1' thick.

KEN 12 Rock chip. More quartz veins like KEN 11, but only up to 4" thick and west of fence and creek about 100 feet.

KEN SAMPLE DESCRIPTIONS
(continued)

KEN 13 Rock chip. Thoroughly mangled area - many silica-sericite zones (thin) with very strong iron stain all around. Actually a stockworks in places. Quartz-iron up to 2" thick common with rare copper oxide.

KEN 14 Rock chip. About a 30' thick zone like KEN 11, except not many quartz-iron veins.

KEN 15 Rock chip. From 0-4' thick iron-stained zone on east edge of rhyolite zone. Rare quartz veins up to 3/4" thick. Original rock some sort of breccia.

KEN 16 Rock chip. Heavy iron stain, especially on all fractures. Irregular silica-sericite zones thruout. Rare copper oxide streaks and rare disem. pyrite in very green (chlorite?) rock.

KEN 17 Rock chip. Open cut (or ripped open old adit?) with green pool in front. Heavily iron and manganese stained fractures for tens of feet in all directions. Main structure (a NNE fault?) is about 5' thick with much copper oxide and rare quartz veins (up to " thick) perpendicular to NNE foliation.

KEN 18 Rock chip. Strong silica-sericite zone parallels quartz/rhyolite sill(?) and has associated quartz-iron veins (never quite makes a good stockwork). Veins up to 4" thick with rare, blue copper oxide.

KEN 19 Rock chip. Quartz vein, 0-1' thick pinches and swells parallel to foliation. Much copper oxide. Several levels (adits). Opposite earth dam.

KEN 20 Rock chip. Shaft with water and big water tank. Zone (of silica-sericite with iron on fractures) that parallels quartz/rhyolite sill(?) and foliation.

Glen
Copy from Kennedy
2/15/98

IN REPLY REFER TO

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE
2400 VALLEY BANK CENTER
PHOENIX, ARIZONA 85073

AR-032164
(940)

February 2, 1979

Ms. Marty Crimboli
11015 East Apache Trail
Mesa, Arizona 85207

Dear Ms. Crimboli:

Attached are copies of two letters that describe the details of Mr. Ray Kennedy's ownership of the mineral rights on land near Mayer, Arizona.

The US patent (or deed) to the three lode mining claims--Lone Star, Missing Link, and Stonewall--conveyed only the mineral estate. The surface estate had been previously transferred by the United States to the Arizona State Land Department.

Mr. Kennedy, as present owner of the Lone Star, Missing Link, and Stonewall lode mining claims, does not own land; he only has the mineral rights or mineral estate located on the land. Unless Mr. Kennedy can show that there is a deposit of valuable mineral on the land in sufficient quantity and quality to warrant mining, the mineral estate is probably of little value.

Sincerely yours,

Glendon E. Collins

Glendon E. Collins
Chief, Division of Technical Services

attachments: 2
memo of 1-24-78
memo of 1-23-77

AR-032164
(940)

January 24, 1978

Mr. Ray Kennedy
Box 602
Mayer, Arizona 86333

Dear Mr. Kennedy:

I am writing as a followup to my December 23, 1977 letter to you, copy attached, involving your mining claims near Mayer, Arizona and the question which you raised with us about the ownership of the surface estate on these three lode mining claims. In my December 23rd letter, I promised to obtain the case files on the 1950 land exchange patent issued to the State Land Department and the 1963 mineral patent issued to your predecessor in interest, Homer L. Wright, for the Lone Star, Missing Link and Stonewall lode mining claims; and to review the files and let you know if they contain additional information that might have a bearing on the question of surface estate ownership.

I have obtained the files from the Federal Records Center and the Archives, and will hold them in this office for the next sixty days if you want to come in and review them. I have reviewed the two files and it appears to me that the mineral patent was intended to convey only the mineral estate plus the right to use as much of the surface as was necessary for mining purposes. I emphasize, however, that this represents only an opinion, not a determination, of the ownership of the surface as stated in my December 23rd letter. The United States no longer has any interest in the land included with these three lode claims, and does not have the authority to make a determination regarding surface ownership.

The following excerpts and information from the two case files are the basis for my opinion regarding the ownership of the surface estate:

1. The May 19, 1948 BLM Field Examiner's report on the State Exchange application contained the following statement regarding the lands in Township 12 N., R. 2 E.:

"The Half-Moon mining claim is situated in the SE¼SW¼ Sec. 7. There are other tunnels and open cuts on the NE¼NE¼, N½NW¼ Sec. 18. Mr. Frank Upton, of Mayer, Arizona, stated that his wife owned a mining claim on the NE¼NE¼ Sec. 18, but that he would not do any assessment work to hold the claim and that he was willing for the State to obtain the surface. The Half-Moon mine was worked out many years ago. No location certificate was found posted on the ground on any of the selected lands in this Township".

Frank Upton located the Lone Star, Missing Link and Stonewall lode mining claims in 1947. His wife, Laura R. Upton, conveyed these three claims to Homer L. Wright in 1961 who subsequently obtained the mineral patent in 1963.

2. Prior to issuance of the State Exchange patent the United States published in the Prescott Courier during July and August 1949 a notice allowing all persons claiming the selected land to file a protest. A copy of the publication notice is attached. No protests were filed by Mr. Upton or any others.

3. The State Exchange Patent in 1950 conveyed the surface to the State Land Department, "reserving also to the United States all minerals in the lands so granted together with the right to prospect for, mine and remove same..."

4. The August 1, 1963 mineral report on the Homer L. Wright mineral patent application prepared by the BLM Field Examiner contained the following statements:

"Land Office records show that the lands covered by these claims were patented to the State of Arizona on January 24, 1950, Patent No. 1128034, under Section 8 of the Act of June 28, 1934 (Taylor Grazing Act) and that all minerals were reserved to the United States."

"This application therefore pertains only to the mineral rights and, if approved, will convey only the right to use so much of the surface as is necessary for the working of the mines."

5. The September 13, 1963 mineral patent on the Lone Star, Missing Link and Stonewall lode mining claims contained the following reservation:

"As to those portions of the above described premises lying within Sections 7, 8, 17, and 18, said Township and Range, which have been patented under Section 8 of

the Act of June 28, 1934 (48 Stat. 1272), as amended by the Act of June 26, 1936 (49 Stat. 1976), subject to a reservation of the minerals to the United States together with the right to prospect for, mine and remove the same, the grantee hereunder shall have the right to enter upon and occupy only so much of the surface as may be required for all purposes incident to the prospecting for, mining and removal of the minerals granted by this patent."

6. A news release issued by BLM in 1963 at the time the mineral patent was granted, as illustrated by the attached excerpts from the Phoenix Gazette and the Pay Dirt Magazine, announced that the patent conveyed the minerals only, plus the right to use so much of the surface as is necessary for working of the mines.

In summary, it appears to me that the people that worked on the State exchange and mineral patent applications, including Frank Upton and Homer L. Wright, intended and/or realized that the State exchange patent conveyed the surface estate to the State Land Department and that the mineral patent conveyed the mineral estate plus the right to use so much of the surface as was needed for mining purposes.

We will be happy to let you review these files. I will retain them in this office for another sixty days before returning them to the Federal Records Center and the Archives.

Sincerely,

. Collins

Glendon E. Collins,
Chief, Division of Technical Services

cc
Attachments

cc - Mr. Andrew L. Bettwy
State Land Commissioner
1624 West Adams Street
Phoenix, AZ 85007

bcc - Mr. Ray Kennedy
8206 East 4th Avenue
Mesa, AZ 85208

bcc - Mr. Don Deming
9333 East Apache Trail, Suite C
Mesa, AZ 85208

bcc - Mr. Fritz Goreham
Field Solicitor's Office
2080 Valley Bank Center
Phoenix, AZ 85073

940:GECollins:mcp 1/24/78

BOREHOLE LOG

BOREHOLE	: 83662		DATE PRINTED: 04/25/97
PROJECT	: Copper Mountain		
PROPERTY NAME	:		
MINE	:		
COUNTRY	: U. S. A.	NORTHING	: 10900.00
PROV/STATE	: Arizona	EASTING	: 4050.00
NTS/QUADRANGLE	:	ELEVATION	: 4350.00
TWP/COUNTY	: Yavapai	BOREHOLE BEARING	:
SEC. T. R.	:	INCLINATION	:
CLAIM NAME	:	HOLE LENGTH	: 822.00
GRID NAME	:	ATTITUDE TEST METHOD	: Eastman Single Shot
UTM COORDINATES	:		
ANOMALY #	:	LOGGED BY	: David Oliver
		LOGGING STARTED	:
LEVEL	: Surface	LOGGING COMPLETED	:
HEADING	:	DRILLED BY	: Boart Longyear
SECTION	:	DRILL TYPE	:
BASELINE AZIMUTH	:	CORE SIZE	: NQ
		HOLE SIZE	:
ASSAYED FOR	:	STARTED	: 9/6/96
		COMPLETED	: 9/23/96

COMMENTS:**
****

DEVIATION RECORDS

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0.00	73.50	-50.00	100.00	73.50	-47.50	200.00	73.50	-46.00
300.00	74.50	-44.50	400.00	76.50	-43.50	500.00	78.00	-43.00
600.00	78.50	-42.00	700.00	80.50	-41.00	800.00	81.50	-40.00

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
0.00	3.00	OVERBURDEN Dirt.	0.00	3.00	NS	-	-	-	-
3.00	17.10	ANDESITE Brown-green. Oxn. Foln mod 45. 2 b/ft. Ands. Fairly cg. Plag phyric. Mod-abundant lim on frac & foln. Mod-strong oxn. Minor siln.	3.00	17.10	NS	-	-	-	-
17.10	24.80	DACITE Brown. Oxn. Foln mod 40. Lim vn xx. 2 b/ft. Dac-rdct. Largely aphyric. Mod	17.10	24.80	NS	-	-	-	-

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		oxn, lim vnlts in foln & frac. Mod MnOx tuff?							
24.80	32.10	RHYODACITE Green. Foln mod 40. 2 b/ft. Rdct. Frgl. Aphyric. Minor diss & vnlt sulphide. Fresh looking. Assr min tr py.	24.80	32.10	NS	-	-	-	-
32.10	32.60	QUARTZ VEIN White. Qtz vn w/ rdct inclusion.	32.10	32.60	NS	-	-	-	-
32.60	34.00	RHYODACITE Green. Foln mod 40. As 24.8-32.1ft. Assr min tr py.	32.60	34.00	NS	-	-	-	-
34.00	38.10	RHYODACITE Brown. Oxn. Foln mod 40. Lim vn xx. 3 b/ft. Rdct. Frgl. Strong oxn, webby Lim vnlts. Strong MnOx.	34.00	38.10	NS	-	-	-	-
38.10	41.40	RHYODACITE Green-brown. Oxn & sern. Foln mod 45. 1 b/ft. Rdct. Aphyric. Frgl. Wk oxn, wk sern. Blotchy oxn w/ minor lim vnlts.	38.10	41.40	NS	-	-	-	-
41.40	52.80	RHYODACITE Brown. Oxn. Foln mod 45. Lim vn xx. 3 b/ft. Rdct. Pervassive mod oxn. Minor siln. Mod-abundant lim vnlts. Minor MnOx.	41.40	52.80	NS	-	-	-	-
52.80	54.00	GOUGE Red. Oxn. Foln mod 50. Lim vn xx. xx b/ft. Gouge & chop of rdct w/ lim. Strong oxn.	52.80	54.00	NS	-	-	-	-
54.00	62.10	RHYODACITE Brown. Oxn. Foln mod 45. Lim vn xx. 3 b/ft. As 41.4-52.8ft.	54.00	62.10	NS	-	-	-	-
62.10	69.80	RHYODACITE White. Sern. Foln mod 40. Rdct. V strong ser altn. V uniform fg white ser altd rdct.	62.10	69.80	NS	-	-	-	-
69.80	92.80	RHYODACITE							

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		Pink. Siln, sern, oxn. Foln wk 40. Lim vn xx. 2 b/ft. Rdct. Mod siln & sern. Strong oxn. Abundant lim vnlts. Mod MnOx. Minor gossanous qtz vnlts. Thin gouge zone @ 86.5ft. Possible ox sulphide rich unit.	69.80	76.50	NS	-	-	-	-
			76.50	86.50	FX546332	16	130	2	<0.005
			86.50	92.80	NS	-	-	-	-
92.80	93.40	GOUGE							
		Red. Oxn. xx b/ft. Limonitic clay gouge.	92.80	93.40	NS	-	-	-	-
93.40	97.70	ANDESITE							
		Pink. Oxn. Qtz vn xx. Possible dike. Non foltd. V strong oxn. Coarse minor qtz vnlts. Minor diss oxidized py cubes. Assr min tr py.	93.40	97.70	NS	-	-	-	-
97.70	99.30	BASALT							
		Red. Oxn. Amygdaloidal. Bslt? V strong pervassive lim altn. Possible contact aureole w/ above dike.	97.70	99.30	NS	-	-	-	-
99.30	109.80	RHYODACITE							
		Brown. Siln & oxn. Lim vn xx. 3 b/ft. Rdct. Strong siln & oxn. Abundant lim vnlts. Prob frgl. Minor oxidized py cubes- diss gouge @ 102.5ft. Minor MnOx. Assr min tr py.	99.30	109.80	NS	-	-	-	-
109.80	141.60	RHYODACITE							
		Green-brown. Oxn. Foln wk 35. Qtz & lim vnlts xx. 2 b/ft. Rdct. Plag phyric. blotchy zones of mod oxn. Minor sern. Mod-abundant webby lim vnlts. Diss py. Minor siln. Assr min tr py.	109.80	141.60	NS	-	-	-	-
141.60	144.90	RHYODACITE							
		Red. Siln & oxn. Foln wk 35. Lim vn xx. 3 b/ft. As 99.3-109.8ft. Assr min tr py.	141.60	144.90	NS	-	-	-	-
144.90	159.40	RHYODACITE							
		Green-brown. Oxn. Foln wk 35. Lim vn xx. As 109.8-141.6ft. Assr min tr py.	144.90	159.40	NS	-	-	-	-
159.40	165.00	RHYODACITE							
		Gray-green. Foln wk 30. Lim & qtz	159.40	165.00	NS	-	-	-	-

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		vnlts xx. Rdct. Aphyric. Frgl. Minor qtz & minor lim vnlts. Diss py. Minor sern. Assr min .5% py.							
165.00	167.00	RHYODACITE							
		Light green-white. Sern. Foln wk 40. Rdct. Aphyric. Mod-strong ser altn. Diss py & blue Cu sx, v minor vnlts. Assr min; 1% py, .5% CcCo.	165.00	167.00	FX546333	9	80	12	<0.005
167.00	190.40	RHYODACITE							
		Gray-green. Sern. Foln wk 35. Qtz vn xx. 1 b/ft. Rdct. Aphyric. Frgl. Mod irregular qtz vnlts, some w/ py. Diss py. Wk-mod sern. Assr min: .5% py, tr cp.	167.00	190.40	NS	-	-	-	-
190.40	198.20	DACITE							
		Gray-green. Sern & oxn. Foln wk 35. Qtz & lim vnlts xx. 2 b/ft. Dac-rdct. Plag phyric. Mod sern & siln. Irregular lim vnlts. Vnlt & diss py. Assr min tr py.	190.40 192.80	192.80 203.50	NS NS	- -	- -	- -	- -
198.20	203.50	DACITE							
		Green-brown. Oxn & sern. Foln wk 30. Lim vn xx. 3 b/ft. Dac-rdct. Minor sern & siln. Abundant lim vnlts, foln paraliel & x-c.							
203.50	207.70	RHYOLITE							
		Light green. Siln & sern. Foln mod 30. rhy. Slcfd. Mod sern. Very minor qtz eyes, some flattened. Diss py poss other sx- v fg. Partly frgl. Assr min tr py.	203.50	207.70	NS	-	-	-	-
207.70	221.80	RHYOLITE							
		Tan-brown. Oxn, siln, sern. Foln mod 35-40. Lim vn xx. Rhy. Partly frgl. Minor plag & qtz phyric. Diss py. Gouge @ 220ft. Scattered zones w/ abundant irregular lim vnlts. Assr min .5% py.	207.70	221.80	NS	-	-	-	-
221.80	227.60	RHYOLITE							
		Light green. Sern & siln. Foln mod 40.	221.80	227.60	NS	-	-	-	-

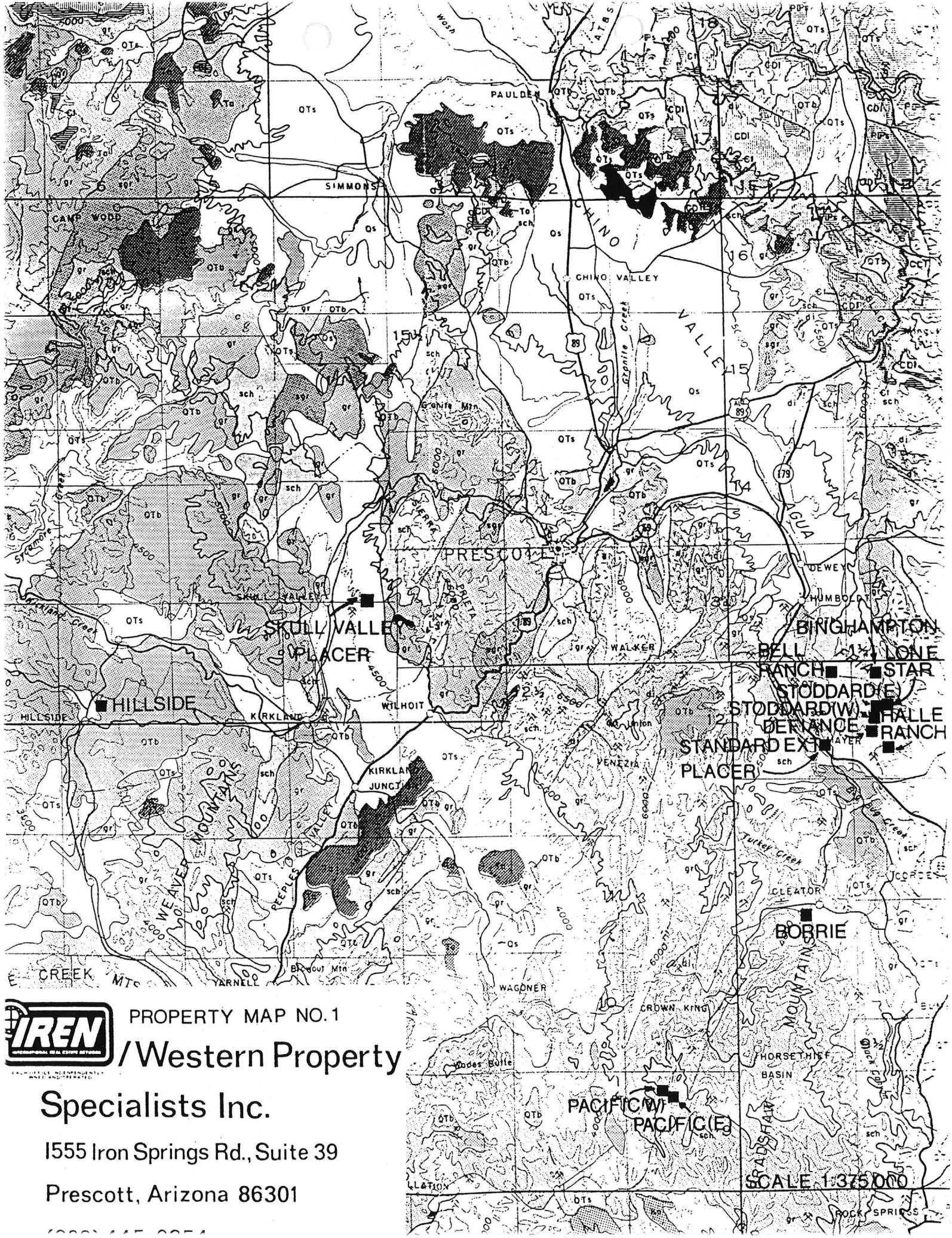
FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		As 203.5-207.5ft. Assr min tr py.							
227.60	235.60	RHYOLITE							
		Tan-brown. Siln, oxn & sern. Foln mod 40. Lim vn xx. As 207.7-221.8ft. Gouge @ 234.3ft. Assr min tr py.	227.60	235.60	NS	-	-	-	-
235.60	247.70	RHYOLITE							
		Light green. Sern & siln. Foln mod 40. Lim vn xx. As 203.5-207.5ft w/ lesser siln & more abundant sern. Minor scattered irregular lim vnlts. Assr min .5% py.	235.60	247.70	NS	-	-	-	-
247.70	253.00	RHYOLITE							
		Light Green. Siln & sern. Foln mod 40. Rhy frgl. Minor qtz eyes, mod siln & sern. Diss sulphides. frags to 4cm. Minor sx vnlts. Assr min; tr py, tr cp, tr sph.	247.70	253.00	FX546334	10	132	6	<0.005
253.00	258.00	RHYOLITE							
		Light green. Siln & sern. Foln mod 40. As 247.7-253ft. Assr min; tr py, tr cp, tr sph.	253.00	258.00	FX546336	<1	84	8	<0.005
258.00	263.00	RHYOLITE							
		Light green. Siln & sern. Foln mod 35. Assr min; tr py, tr cp, tr sph.	258.00	263.00	FX546337	10	120	8	<0.005
263.00	268.00	RHYOLITE							
		Light green. Siln & sern. Foln mod 35. As 247.7-253ft. Minor blue CuSx. Assr min; .5% py, .5% cp, .5% sph, tr CuSx.	263.00	268.00	FX546338	4	106	6	<0.005
268.00	272.80	RHYOLITE							
		Light green. Siln & sern. Foln mod 40. Lim vn xx. As 263-268ft. Minor lim vnlts. Assr min; .5% py, .5% cp, .5% sph, tr CuSx.	268.00	272.80	FX546339	1	82	2	<0.005
272.80	310.00	RHYOLITE							
		Light green. Siln & sern. Foln wk 35. Lim vn xx. As 247.7-253ft. Minor lim vnlts. Assr min tr py.	272.80	310.00	NS	-	-	-	-
310.00	310.70	GOUGE							

copy Harry Kennedy 8/05/95

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		White. CA 45. Rhy, qtz vn, clay gouge.	310.00	310.70	NS	-	-	-	-
310.70	311.80	QUARTZ VEIN White. CA 55. Qtz vn, w/ epid & minor py vnlts. Assr min .5% py.	310.70	311.80	NS	-	-	-	-
311.80	336.40	RHYOLITE Light green. Sern & siln. Foln mod 40. Qtz vn xx. Rhy. Partly frgl. Minor qtz eyes. Mod-strong siln & sern. Diss py. High strain. Minor irregular qtz vnlts. Assr min tr py.	311.80	336.40	NS	-	-	-	-
336.40	345.60	GOUGE Red-white. Clay & oxn. gouge & chop. Rhy, lim clay, red chert, qtz vns. Mod-strong oxn diss py. Assr min .5% py.	336.40	345.60	NS	-	-	-	-
345.60	346.30	QUARTZ VEIN White. Qtz vn. Minor sern. Minor vnlt py. Assr min .5% py.	345.60	346.30	NS	-	-	-	-
346.30	357.00	RHYOLITE Light green. Siln & sern. Foln mod 45. Rhy frgl, later tect bx. Plag & wkly qtz phyric. Minor hem, Mn? Pink siln. Diss py. Assr min tr py.	346.30	357.00	NS	-	-	-	-
357.00	361.30	JASPEROID Light green-pink. Siln, Foln wk 55. Silica replaced rhy. Abundant pink hem, Mn? siln. Parthy tect bx. Tr diss py. Slcfd fault zone? Assr min tr py.	357.00	361.30	NS	-	-	-	-
361.30	403.00	RHYOLITE Light green. Siln & sern. foln mid 55. Qtz vn xx. As 311.8-336.4ft. Assr min tr py.	361.30	403.00	NS	-	-	-	-
403.00	405.70	RHYOLITE Light green. Siln. Foln mod 40. Qtz vn xx. Rhy. Qtz & plag phyric. V strong siln, minor sern. Black, white & red silica. Minor ribbon qtz vnlts. Diss py & other Sx. Assr min; .5% py, tr cp, tr sph.	403.00	405.70	FX546340	65	100	8	<0.005

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
405.70	412.00	RHYOLITE							
		Light green. Sern & siln. Foln mod 55. As 311.8-336.4ft. Assr min tr py.	405.70	412.00	NS	-	-	-	-
412.00	422.70	BRECCIA							
		Light green. Siln & sern. Foln wk 55.	412.00	414.90	NS	-	-	-	-
		qtz vn xx. Rhy silicification bx.	414.90	418.80	FX546341	<1	154	2	<0.005
		Variable siln of mtrx & frgl (hyct?) rhy. V strong siln, minor sern. Diss Sx. Sample FX546341. More abundant Sx, about 1.5-2% total Sx. Assr min; .5% py, tr cp, tr sph.	418.80	422.70	NS	-	-	-	-
422.70	452.00	RHYOLITE							
		Light green. Sern & siln. Foln wk 50. As 311.8-336.4ft. Gouge @ 439.5, 443.5 & 445ft. Assr min tr py.	422.70	452.00	NS	-	-	-	-
452.00	454.20	HORNFELS							
		Gray. Siln & tour. Foln strong 50. Qtz vn xx. Rhy. Contact altn zone w/ thin lamp. Dike. Siln tourmaline? px. Webby fg qtz vnlts. Diss py. Assr min .5% py.	452.00	454.20	NS	-	-	-	-
454.20	456.50	LAMPROPHYRE							
		Dark gray. CA 50. Lamprophyre. Fg. Minor sanidine & px phenos. Minor small granitic xenoliths.	454.20	456.50	NS	-	-	-	-
456.50	457.50	HORNFELS							
		Gray. Siln & tour. Foln strong 55. Qtz vn xx. As 452-454.2ft. Assr min tr py.	456.50	457.50	NS	-	-	-	-
457.50	468.50	RHYOLITE							
		Light green. Sern & siln. Foln mod 50. As 311.8-336.4ft.	457.50	468.50	NS	-	-	-	-
468.50	473.90	RHYOLITE							
		Light green. Sern & siln. Foln mod 50. Rhy. Qtz & plag phyric. frgl. Mod siln & sern. Diss & vnlt Sx. Assr min; .5% py, tr sph.	468.50	473.90	FX546342	5	146	28	<0.005
473.90	477.40	RHYOLITE							
		Light green. Siln & sern. Foln mod 55. Strong vns xx. Rhy as 486.5-373.5ft	473.90	477.40	FX546343	42	1735	1155	<0.005

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		w/ more abundant sx vnlts about foln parallel. Assr min; .5% py, .5% cp, 1% sph, 1% gal.							
477.40	483.50	RHYOLITE Light green-gray. Siln & sern. Foln mod 45. Rhy as 468.5-473.5ft w/ minor siln bx zones. Assr min; .5% py, tr sph, tr gal.	477.40	483.50	FX546344	9	346	48	<0.005
483.50	489.70	RHYOLITE Light green. Siln & sern. Foln mod 55-70. Qtz vn 50. Rhy as 468.5-473.5ft. Highly tectonized. Minor black siln. Assr min tr py, tr sph.	483.50	489.70	FX546345	12	366	32	0.01
489.70	492.20	MYLONITE Foln strong 50. Qtz & feld vn 60. 3 b/ft. Mylonite. Qtz & plag phyric rhy w/ sx vnlts. Mod qtz & plag vnlts. Assr min; 1% py, .5% cp.	489.70	492.20	FX546346	10	276	24	0.015
492.20	494.50	BRECCIA Light gray. Siln. Rhy, siln bx . Vnlt & clotty sx. Clotty sx intersection of bx. Assr min; 1% py, tr cp, 1% sph.	492.20	494.50	FX546347	81	3010	310	0.205
494.50	499.60	RHYOLITE Light gray. Siln & sern. Foln strong 55. Qtz & feld vn 55. As 468.5-473.5ft. Highly tectonized. Deformed sx vnlts. Minor tour. Irregular qtz feld vnlts. Minor barite. Assr min; .5% py, tr cp, tr sph.	494.50	499.60	FX546348	11	268	16	0.02
499.60	502.10	RHYOLITE Light green. Siln & sern. Foln mod 60. Qtz vn 55. Rhy qtz & plag phyric w/ mod siln & sern. Assr min tr diss py.	499.60	502.10	NS	-	-	-	-
502.10	508.40	GOUGE Light green. Foln mod 60. xx b/ft. Rhy as above, Gouge & chop.	502.10	508.40	NS	-	-	-	-
508.40	529.20	RHYOLITE Light green. Siln & sern. Foln mod 55. Feld vn 55. Rhy. Wkly plag phyric.	508.40	529.20	NS	-	-	-	-



PROPERTY MAP NO. 1

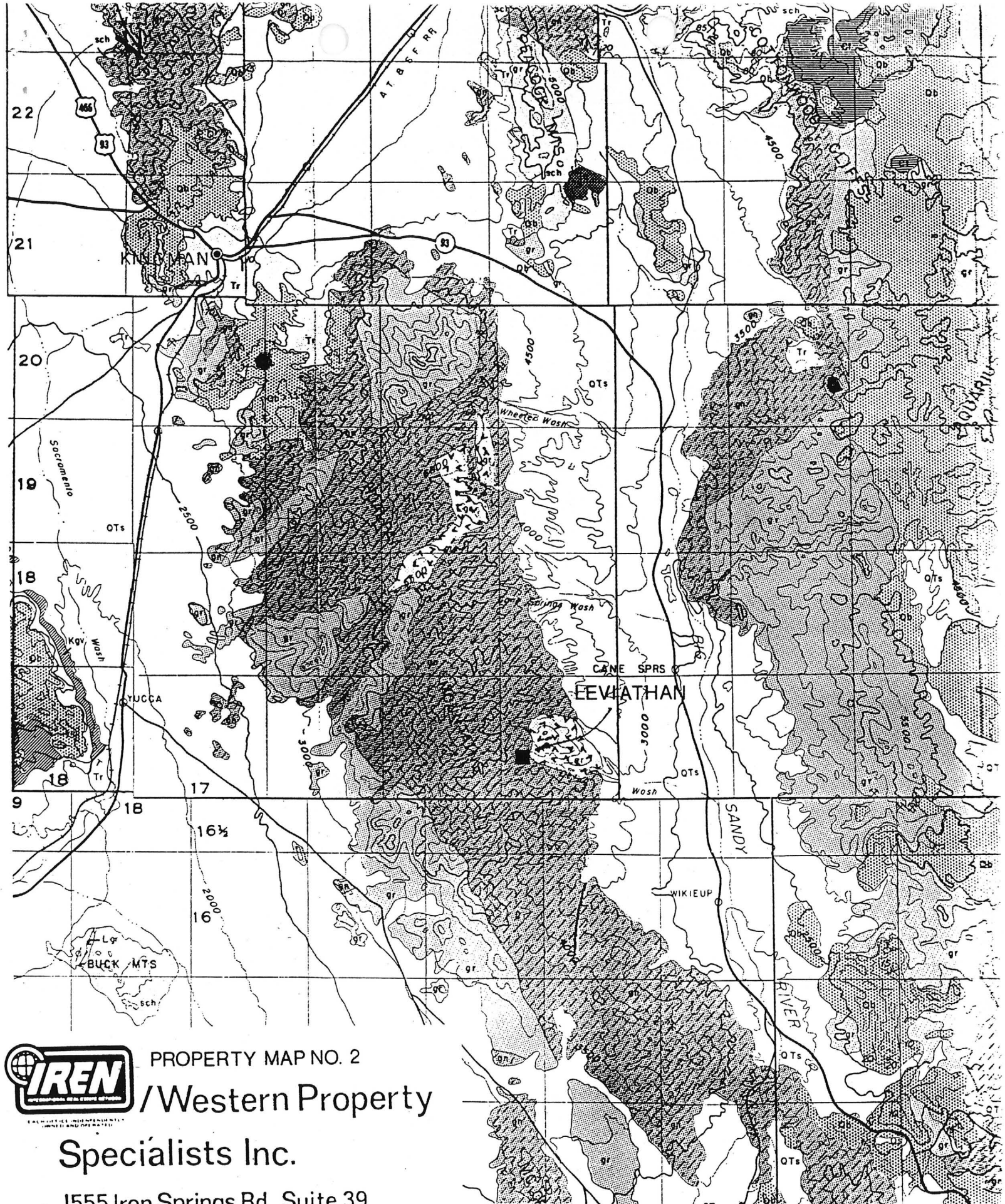
/ Western Property

Specialists Inc.

1555 Iron Springs Rd., Suite 39

Prescott, Arizona 86301

(602) 445-8254



PROPERTY MAP NO. 2

IREN

/Western Property

Specialists Inc.

1555 Iron Springs Rd., Suite 39

Prescott, Arizona 86301

(602) 445-9354

ØMAC SYSTEMS

CRAIG R. McGHAN

Assayers - Refiners
Buyers of Gold - Silver-
Precious Metals & Concentrates

521 E. BROADWAY RD.
MESA, ARIZONA 85204

602-962-5999

Copy from Kennedy 2/18/88

```
*******************
* O M A C  S Y S T E M S *
***************************
    * 521 E BROADWAY RD *
    *  MESA, AZ 85204   *
    *   602-962-5999    *
    *******************
```

A S S A Y R E P O R T

CLIENT: EDWARD KENNEDY
905 E RANCH RD
TEMPE, AZ 85284

PHONE: 839-1808

TYPE OF ASSAY: CORRECTED FIRE ASSAY FOR GOLD & SILVER

ASSAY RESULTS

CONTROL #	SAMPLE/LOT NUMBER	GOLD	SILVER	COPPER	OTHER
82084-3	ORACLE SULFIDE ORE	0.03	0.75		

NOTE: GOLD, SILVER & PLATINUM VALUES ARE IN TROY OZ PER TON

WE SINCERELY APPRECIATE YOUR BUSINESS !!

SIGNED: Craig McGhan DATE: 11 Aug 1984

CRAIG R. MCGHAN
ASSAYER

Copy for Kennedy 3/10/98

IN REPLY REFER TO

3833
A MC 23806 et al
(943-GEC)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE
2400 VALLEY BANK CENTER
PHOENIX, ARIZONA 85073
(602) 261-4774

December 7, 1982

Mrs. Margaret Kennedy
905 E. Ranch Road
Tempe, AZ 85284

Dear Mrs. Kennedy:

This is to confirm the information which we gave you on December 1, 1982 during your visit to this office regarding the mineral rights owned by the Estate of Ray Kennedy on land near Mayer, Arizona.

Mr. Kennedy did not own land. He owned the mineral estate beneath land that is owned by the State of Arizona. The United States patent or deed to the three mining claims which he owned - the Lone Star, Missing Link, and Stonewall claims - conveyed only the mineral estate. The surface estate had been previously transferred by the United States to the Arizona State Land Department. The owner of the three claims has the right to the minerals and the right to use as much of the surface as is necessary for mining purposes only.

In addition to these three patented claims, Mr. Kennedy also owned 10 unpatented mining claims which surrounded the patented claims. These claims are the Golden Lode, Lone Star 1-4, Stonewall No. 1, Blue Star, Missing Link, Lucky Star and North Star lode claims. Most of the land covered by these 10 unpatented mining claims is owned by the State of Arizona, and the mining claims affect only the U.S.-owned mineral estate. Annual assessment work of at least $100 per claim must be done to maintain title to these 10 unpatented mining claims.

In summary, Mr. Kennedy did not own the land; he only had the mineral rights or the mineral estate in the land. Unless there is a deposit of valuable mineral on the land in sufficient quantity and quality to warrant mining, the mineral estate is probably of little value.

Sincerely,

Glendon E. Collins

Glendon E. Collins
Chief, Division of Operations

IRON KING ASSAY OFFICE

ASSAY CERTIFICATE

BOX 247 — PHONE 632-7410
HUMBOLDT, ARIZONA 86329

REGISTERED ASSAYER
CERTIFICATE NO.
2978
WALTER G.
STATLER
Date Signed.....
ARIZONA, U.S.A.

ASSAY MADE FOR

REF. NO.	DESCRIPTION	oz/ton Au	oz/ton Ag		% Fe	% Pb	% Zn	% Cu
	Kennedy Sample	0.040	0.28					

CHARGES _____

ASSAYER _____

Copper Queen

Bondar-Clegg, Inc.
12980 West Cedar Dr.
Lakewood, Colorado
U.S.A. 80228
Phone: (303) 989-1404
Telex: 45-693

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 054-0659

PROJECT: NONE LISTED

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB	As PPM	Hg PPB	Sb PPM	NOTES
RA 33690		8	8	28	<0.2	5	3	35	4	
RA 33691		100	19	1730	0.3	225	183	90	<2	
RA 33692		105	20	321	0.3	15	21	45	<2	
RA 33693		710	35	1440	0.2	5	168	90	<2	
RA 33694		273	13	3730	<0.2	25	15	50	<2	
RA 33695		660	303	1330	12.0	4480 >	1000	1400	60	
RA 33696		1190	61	5850 >	50.0	2340	19 >	5000	<2	
RA 33697		6500	20	2220	0.6	300	8	500	2	
RA 33698		196	11	440	0.3	5	16	90	<2	
RA 33699		14400	9050 >	20000 >	50.0	2130 >	1000 >	5000	46	
RA 337		384	5600	18700	18.0	1865	360 >	5000	7	
RA 33701		276	173	7400	13.0	190	355	2500	8	
RA 33702		139	19	247	0.3	<5	14	85	<2	
RA 33703		10	9	86	<0.2	<5	4	50	3	
RA 33704		8	10	15	<0.2	5	7	45	<2	
RA 33705		9	12	17	<0.2	<5	11	35	4	
RA 33706		34	24	304	<0.2	<5	28	170	4	
RA 33707		36	16	125	<0.2	10	58	700	8	
RA 33708		255	6700	275	9.5	1780 >	1000	5000	210	
RA 33709		100	7400	980	13.0	2330 >	1000 >	5000	205	
RA 33710		465	790	555	15.0	580 >	1000	1600	33	
RA 33711		1410	29	99	1.0	8045	405	190	39	
RA 33712		1400	52	253	7.4	2025	87	200	10	
RA 33713		45	111	69	0.9	710	21	170	24	
RA 33714		171	885	272	7.7	2940	110	3300	95	
RA 33715	- BELL	89	6300	1180	9.9	1645 >	1000	260	85	
RA 33716		237	470	865	7.0	810 >	1000	450	10	
RA 33717		247	357	154	1.9	385 >	1000	3150	41	
RA 33718		131	45	196	1.7	85	615	2200	11	
RA 33719	- BINGHAMPTON	8550	40	166	3.1	40	265	3750	205	
RA 33720		1480	430	63	18.0	7890	455	600	19	
RA 33721		189	8	137	1.4	35	7	60	3	
RA 33722		1180	27	134	5.7	210	60	300	2	
RA 33723		1330	4150	475	20.0	515	325	1650	29	
RA 33724		2330	16	170	1.3	220	30	300	<2	
RA 33725		243	44	495	1.1	410	11	30	3	
RA 33726		71	37	610	7.5	10	6	35	5	
RA 33727		38	102	665	0.4	1320	19	60	4	
RA 33728		94	234	620	0.5	1700	83	45	6	
RA 33729		85	23	96	<0.2	15	205	50	<2	

Copper Queen

1984 ARIZONA PRECAMBRIAN WORKSHOP
ASSAY SAMPLES

33690	(O)	Copper Chief mine area; felsic, silicic fragmental unit
91	(O)	Copper Chief mine area; Flat Fault outcrop; silicified, hematitic zone
92	(O)	Copper Chief mine area; (old ore-roast site); rhyodacite
93	(O)	Copper Chief mine area; chloritized rhyodacite
94	(O)	Copper Chief mine area; (open cut); gossan, siliceous
95	(O)	Wonderful mine; alt mafic rock
96	(O)	UV pit, surface level near ramp; iron fm., pyritic massive sulfide
97	(O)	UV pit, surface level near ramp; massive Cleopatra fm, pyrite alt
98	(O)	UV pit, ramp down into pit; chl. Cleopatra fm
99	(F)	UV pit, bottom of pit; bedded pyritic massive sulfide
33700	(O)	UV pit, bottom of pit; bedded pyritic massive sulfide
01	(O)	UV pit, base of N high wall in pit; Cleopatra Fm inlier in m.s.
02	(O)	Deception Canyon; Deception "Rhyolite", chloritic
03	(O)	Deception Canyon; Cleopatra Rhyolite
04	(O)	Deception Canyon (near canyon bottom); hematitic jasper betw Cleopatra and Deception
05	(O)	Deception Canyon; blister dome rhyolite above Cleopatra in transition zone to Grapevine Gulch
06	(O)	Iron King mine; schistose rock
07	(O)	Iron King mine; limonitic schist w/scat sulfides
08	(O)	Iron King mine; (near #5 shaft); sil., lim rock near ore zone (SIF?)
09	(O)	Iron King mine; (@ #5 shaft); SIF (weak), silicified
10	(O)	Iron King mine; (s of #5 shaft); ox. SIF, bedded
11	(O)	Huron mine; purplish hydrozincite and brown gossan
12	(D)	Huron mine; pyritic "ore"
13	(O)	Boggs mine; alt. foliated rhyolite
14	(O)	Boggs mine; alt. qtz-eye rhyolite
15	(O)	Bell property (Aguafria); altered, foliated rhyolite
16	(O)	Bell property (Aguafria); sericitized, foliated rhyolite, some gossan
17	(O)	Copper Queen mine; pyritic, silicic rhyolite
18	(O)	Copper Queen-Binghampton area; limonitic, alt. rhyolite, foliated
19	(O)	Binghampton mine (upper stoped area); green chloritic rhyolite, foliated
33720	(O)	Blue Bell discovery outcrop; hematitic, silicic, fragmental sinter or chert
21	(O)	Blue Bell; silicic fragmental rhyolite
22	(O)	Blue Bell; alt rhyolite and sulfide zone @ contact w/mafics
23	(O)	Blue Bell; alt rhyolite (?)
24	(O)	Orizaba mine; possible SIF, some bx, siliceous gossan
25	(O)	Silver Cross mine; alt mafic rock
26	(O)	Silver Cross mine; rhyolite (sericite schist)
27	(O)	Phoenix mine; clay alt bx (pipe?)
28	(O)	Phoenix mine; bx in rhyolite
29	(O)	Pikes Peak Property; carbonate iron fm
30	(O)	Pikes Peak Property; BIF, thinly laminated

Copper Queen

copy from Hannaby 2/18/88

Dr.
orado
) 989-1404
.693

BONDAR-

BOND

Miscellaneous data for other calcic Cu-Zn massive sulfide systems

REPORT: 154-0870

SAMPLE NUMBER	ELEMENT UNITS	As PPM	Hg PPB	Tl PPM	Ba PPM	Sb PPM	NOTES
RA BE-1		> 1000	> 5000	8.5	30	116	
RA BG-1		255	> 5000	5.5	50	<2	
RA BR-1			280	7.5	260	2	
RA BR-2			> 5000	2.5	290	5	
RA CQ-1		> 1000	> 5000	2.0	30	14	
RA KC-1		350	850	3.0	30	3	
RA KC-2		65	265	5.5	60	<2	
RA KC-3		230	915	5.0	30	<2	
RA KG-4		235	2150	32.5	40	14	
RA ST-1			425	3.0	50	<2	

REPORT: 154-0870

SAMPLE NUMBER	ELEMENT UNITS	F PPM	NOTES
RA BE-1		645	Belgian Mine, Yav. Co., AZ
RA BG-1		260	Binghampton Mine, " , "
RA BR-1		905	Bell Prospect, Yav. Co., AZ
RA BR-2		240	
RA CQ-1		465	Copper Queen, Yav. Co., AZ
RA KC-1		<20	Kidd Creek, Canada
RA KC-2		275	
RA KC-3		<20	
RA KG-4		65	
RA ST-1		2900	Stoddard Area, Yav. Co., AZ

Sample Descriptions

BE-1 bedded massive pyrite with 10% granular silica.

BG-1 massive chalcopyrite stringer(?) ore with massive black chlorite; 45 vol % chalcopyrite; trace calcite.

BR-1 Carbonaceous chert with 1 vol. % Chalcopyrite and 18 vol % pyrrhotite; crenulated; Au = 1.9 ppm.

BR-2 typical bedded sulfide ore in finely laminated qtz-ser. schist; 1 vol. % cpy, 3 vol % sphalerite; 8 vol. % pyrrhotite.

CQ-1 Exhalite. 20 vol % pyrite, 10 vol % cpy, matrix is finely bedded green chert.

KC-1 massive medium-grained chalcopyrite ore with quartz veinlets.

KC-2 massive chalcopyrite stringer ore with 50 vol% sulfides and 1-3" quartz veins.

KC-3 massive medium-grained, bedded sphalerite ore; 80 vol. % sph., 20 vol. % pyrite

KC-4 massive pyrite, carbonaceous with 70 vol. % sulfides

ST-1 Stringer mineralization. Massive black chlorite w/cpy veinlets 10 vol % sulfides. pyrite?

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Included Maps:

Map 1. - Geologic Map, portion of Yavapai County, Arizona

Map 2. - Claim Map, Lone Star Claims.

Map 3. - Geologic Sketch, portion of Lone Star claims.

INTRODUCTION

At the request of Mr. Sherwood B. Owens, Tucson, Arizona, the writer examined the Lone Star group of claims in Yavapai County, Arizona, located approximately four airline miles northeast of Mayer, Arizona, a small community on State Route 69 about 60 miles north of Phoenix.

CONCLUSIONS

As a result of the geologic conditions observed on the ground and the writers geological knowledge of this district, the following conclusions are forwarded:

(1) Copper mineralization, as both oxide and sulphide minerals, are exposed in the area of development and mapped by the writer,
(2) Such mineralization occurs as two distinct, separate modes--(a) lenticular lenses paralleling to some degree the laminations of silicified, iron stained zones in the schist, the common rock type of the district and (b) as disseminated sulphides in a silicified, strongly metamorphosed schist (?) or possibly a diorite porphyry, not commonly exposed in the district, and
(3) With evidence of such geological conditions, two exploratory targets and potential exist.

PROPERTY, LOCATION & ACCESSIBILITY

The Lone Star property consists of three patented claims (M.S. 4601), eight unpatented claims, four of which are less than the normal 600 foot width and one fraction (filling in between two groups of patented claims. (See Map 2)

These claims lie in Sections 7, 8, 17 and 18 of T. 12 N., R. 2 E. of G. & S. R. B. & M. in Yavapai County about 4 miles north east of Mayer Arizona. Travel to the property from Phoenix is north on Intrastate Highway 17 and State Route 69 to Cordes Junction and then following State Route 69 to Mayer. At Mayer, just south of the Motel-Restaurant on the highway, a county maintained ranchers road bears eastward towards the "U" Cross Ranch. This road is not a good wet weather road but travel to the property (about 4 miles) on this road--bearing to the right at all "Ys"--is possible by automobile. Entrance to the patented claims is through a "locked" gate, --the three patented claims being almost completely fenced.

FACILITIES

A small house trailer and two small buildings exist near

the inclined shaft. There is electric power on the property (at the buildings) and during the winter months the small wash which traverses the three patented claims more or less down the middle of the side lines, does run a small stream of water which dries up during summer. A small spring about the center of the Lone Star claim does "seep" water all year long. The incline shaft near the wash on the Stonewall claim also makes some water.

REGIONAL GEOLOGY & MINERALIZATION

For the most part, the regional picture is one of schist, granite and diorite porphyry, all of pre-cambrian age. The nearest exposure of Quaternary basalt is about one mile to the southeast and there only sparsely evidenced.

The general regional trend of the schist is N. 10° to 30° E. with local strike and dips to the east and west of this trend. For the most part, the dips are very steep to the east and west as well as being vertical.

The Mayer area is one of strong copper mineralization as evidenced by the presence of many early day deep underground mines such as the Blue Bell, DeSoto, Stoddard, Binghamton and more recently the Iron King mine which shut down just last year. All these mines had similar structural control for their mineralization--namely the schistosity, silicification in certain zones and the lenticular shapes both horizontally and vertically with high grade "eyes" of 5, 6 to 8% copper. The Blue Bell mine--not completely mined--still has "good ore" at the 1500 foot level (according to historical notes from the famous Colvocoresses' files.) The Iron King mine had mineral to 3000 feet.

It can be observed on Map 1 that the DeSoto, Blue Bell, Stoddard, the Lone Star and the Binghamton are all on the "general" trend of the schistosity and even more striking, all in a "narrow band" (assumed to be the same) because the writer is familiar with the N. 25-30°E. strike at DeSoto and the N. 20-25°E. strike at the Silver Bell as well as the N. 15°E. strike at the Stoddard, the N. 10-15°E. strike at the Lone Star and the N. 5-10°E. strike at the Binghamton.

The copper mineralization at these mines occurs as chalcopyrite, bornite and some chalcocite with a fair amount of pyrite. The oxidation zone (copper oxides) depth varies in each mine. Oxide copper was evidenced on the 500 level of the Blue Bell mine.

LOCAL GEOLOGY & MINERALIZATION

The local geology and mineralization is not much different than the regional picture. Local variations of the schist

strike and dip and small mineralized quartz fissure zones are in evidence on the property. The hills on both sides of the main wash traversing the three patented claims are made up of light, tan and brown schist with varying degrees of weathering making the schist quite soft and it forms much soil. Ridges, or prominent outcrops, are most generally silicified schist zones, quartz fissures and what might be termed a jasperoid, - mostly silica. This silicification is of course, more resistant to weathering. The silicified schist and quartz fissures are, most generally, mineralized with copper oxides. Weathering, however, may have removed the mineralization evidence in some instances as regard the silicified schist zones.

The silicification of the schist and the accompanying copper mineralization is the same pattern as at the other "oldie" mines previously mentioned and shown on Map 1. There is one such large prominent silicified schist zone on this property with a trend length of 700 to 800 feet and 70 to 100 feet wide. This zone not only shows strong silicification but also strong iron oxide of dark brown to red, dispersed copper oxides usually as malachite and azurite as well as a strong fracture pattern.

Development of this zone is very limited by "old" workings of open stopes (pretty well gleamed), underground drifts, etc and more recently by a shallow pit across part of the zones' width near the crest of the hill. It is thought that this silicified zone will not "deviate" from the regional mineralization pattern and should thus host lenticular bodies of copper sulphides the dimensions of which might be 50 to 70 feet long, 10 to 30 feet wide and 100 to 150 foot heights. A suspected grade could be 5% up to 8% copper. Such suspected "lenses" might be on the hanging wall, footwall or in between and in echelon both vertically and horizontally.

The above described zone is an excellent target all along its trend. The pattern of mineralization discribed above is also common to the old mines DeSoto, Blue Bell and Stoddard, thus, not a thought of imagination.

The vertical extent of the steep dipping schist in the district is not known but the Blue Bell and Iron King mines had demonstrated depths in excess of 1500 feet. The rocks (schist) on the slopes in the area mapped by the writer are usually light, tan to brown in color. However, the "main wash" traversing the patented claims, exposes in places in its floor, a gray-green rock which is both massive and schisty in character. The same rock is also exposed in the small wash near the southeast corner of the Lone Star patented claim and again in the large pit near the "main wash" and the middle of the east side line of the Missing Link patented claim.

The importance of this rock is that it appears to be significantly mineralized with pyrite and copper sulphide such that

it can not be dismissed nor ignored. Two samples were taken of this material and the results were encouraging. (See paragraph on Sampling)

Although limitedly exposed, the writer is of the opinion that an un-comformity may exist between the gray-green, massive, schisty rock type and the overlying light, tan to brown schist. The contact appears to be at and on the present floor of the main wash and its "small tributary". Soil, creek gravel and rock talus "hide" this contact but the "large pit" in the main wash helps support the thought of two different rock types--the "underlain and the "overlain". None-the-less, the presence of pyrite and copper sulphide in this gray-green rock indicates a "second" potential target which must definitely be investigated by core drilling.

One core drill hole near the large pit in the main wash was drilled in a N. 82°E. direction at -70°. The core was saved but there is no record of the geology or footage. The core was found in some wooden core trays, covered with ground or soil, some core was found scattered on the ground. The writer did observe pyrite and chalcopyrite as disseminations and in veinlets in all the core which consisted of the gray-green rock, tenatively now classified as a diorite--perhaps of porphyrytic texture. It is reported the hole reached a depth of 150 feet.

The same rock is also exposed in the large pit near the main wash and also shows mineralization.

SAMPLING

Four character samples were taken and their locations are shown on Map 3. The discriptions and results of these samples are as follows:

Sample	Discription	% Cu.	Oz. Au	Oz. Ag
"A"	Chip sample across 25 ft. of shallow face in new pit in silicified schist zone showing copper oxides	0.71	Tr.	0.20
"B"	Chip sample, 10 feet long, east wall of large pit from face to fissure. Chalcanthite, malachite, and copper sulphides	3.03	0.01	0.25
"C"	Chip sample, 15 ft. across main wash floor-approx. 200 ft downstream from large pit and 200 ft. up stream from "water fall" in main wash. (gray-green rock)	0.60	Tr.	0.15
"D"	Composite sample of all core found near drill hole located near large pit in main wash. (gray-green rock)	0.80	Tr.	0.15

TARGET POTENTIALS

Since possible potentials in both targets are very limited defined or identified using the existing evidence, it is most difficult to forward or forecast tonnage and grade figures of a meaningful nature. At best they would be "guesses"

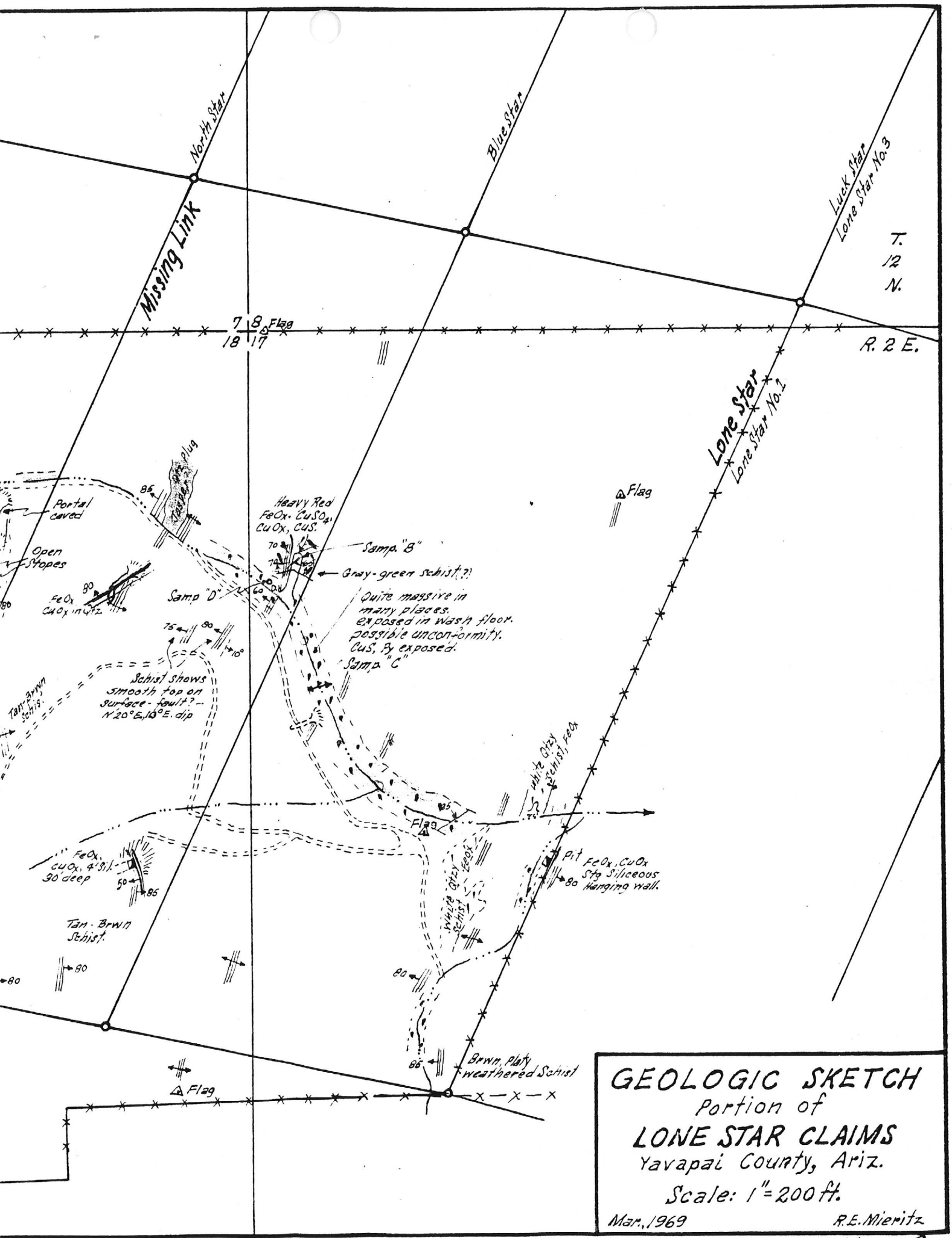
The larger potential, ofcourse, is the gray-green rock (diorite porphyry ?). In this instance there is 600 feet exposed in the "main wash", 350 feet exposed in the "tributary wash" and 150 feet deep in the drill hole. Area-wise, this could approximate 18,000 tons per foot of depth. Any extension of length and breadth in the area would, ofcourse, increase the tons per foot of depth.

It is thought that both targets can produce substantial potentials worthy of production in the near future. One of low tonnage but high grade, the other of great tonnage but of low grade, one an underground operation, the other a possible open pit.

Respectfully submitted,

R. E. Mieritz,
Mining Consultant
Phoenix, Arizona

March 13, 1969

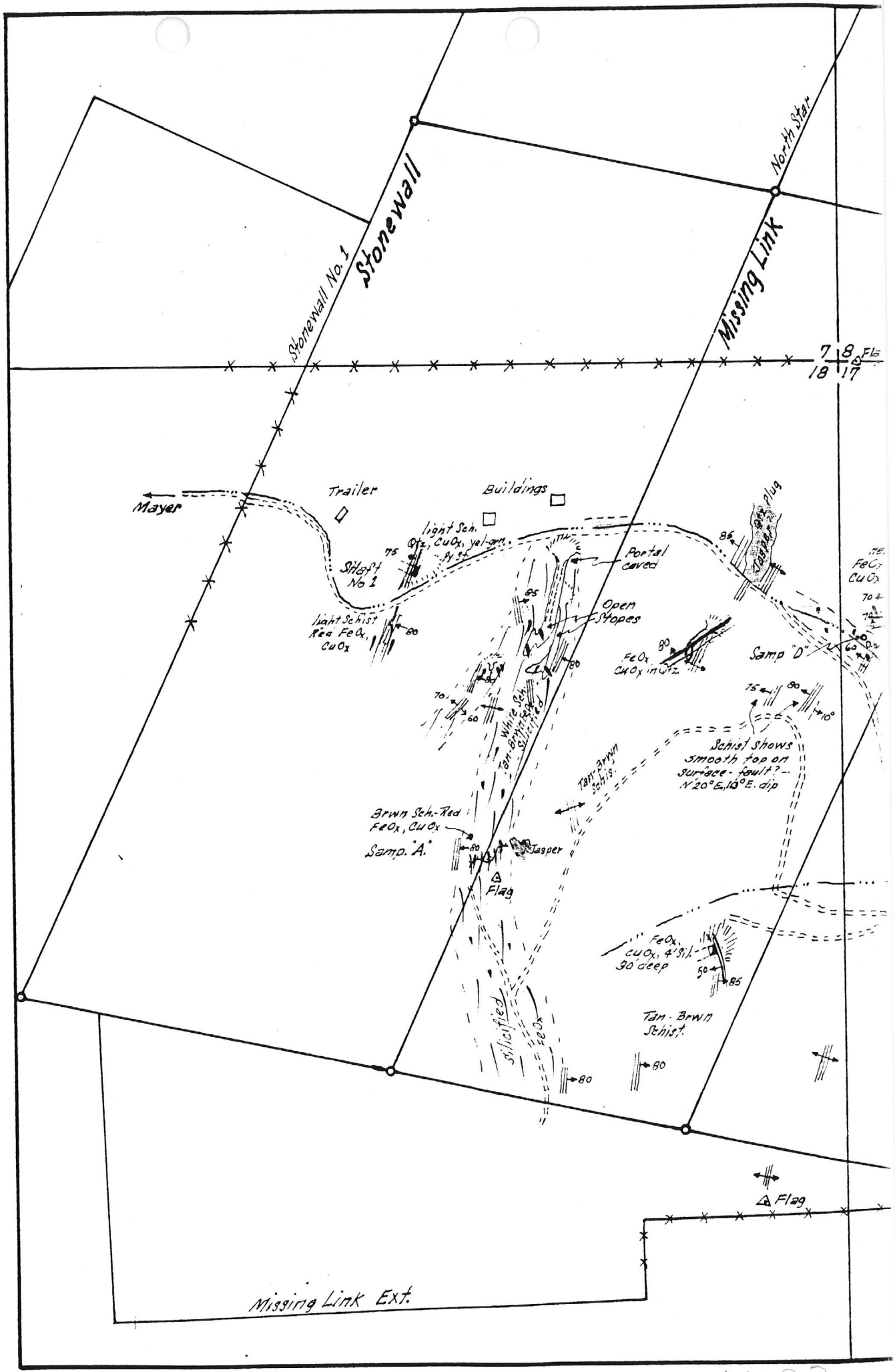


GEOLOGIC SKETCH
Portion of
LONE STAR CLAIMS
Yavapai County, Ariz.

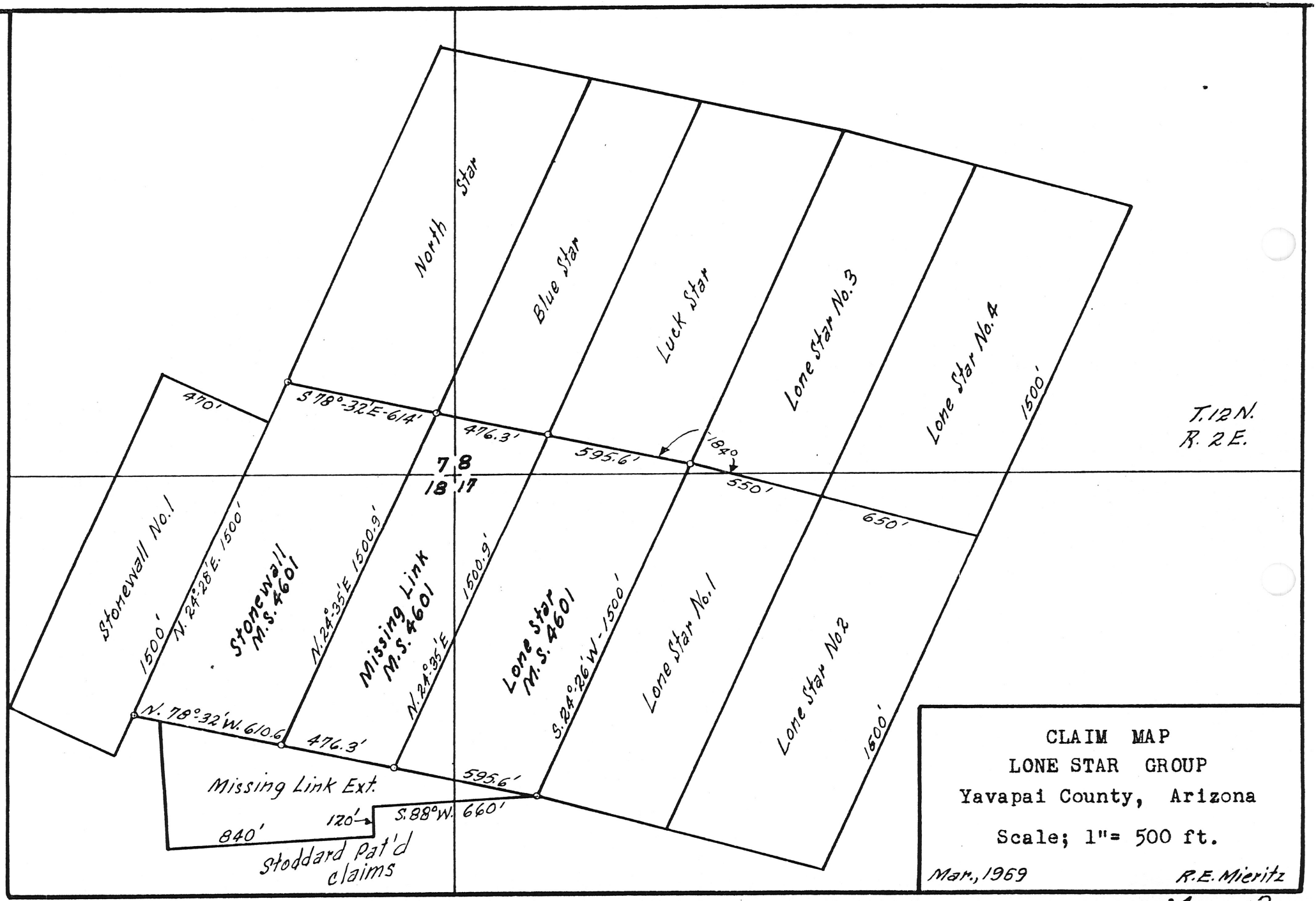
Scale: 1" = 200 ft.

Mar., 1969 R.E. Mieritz

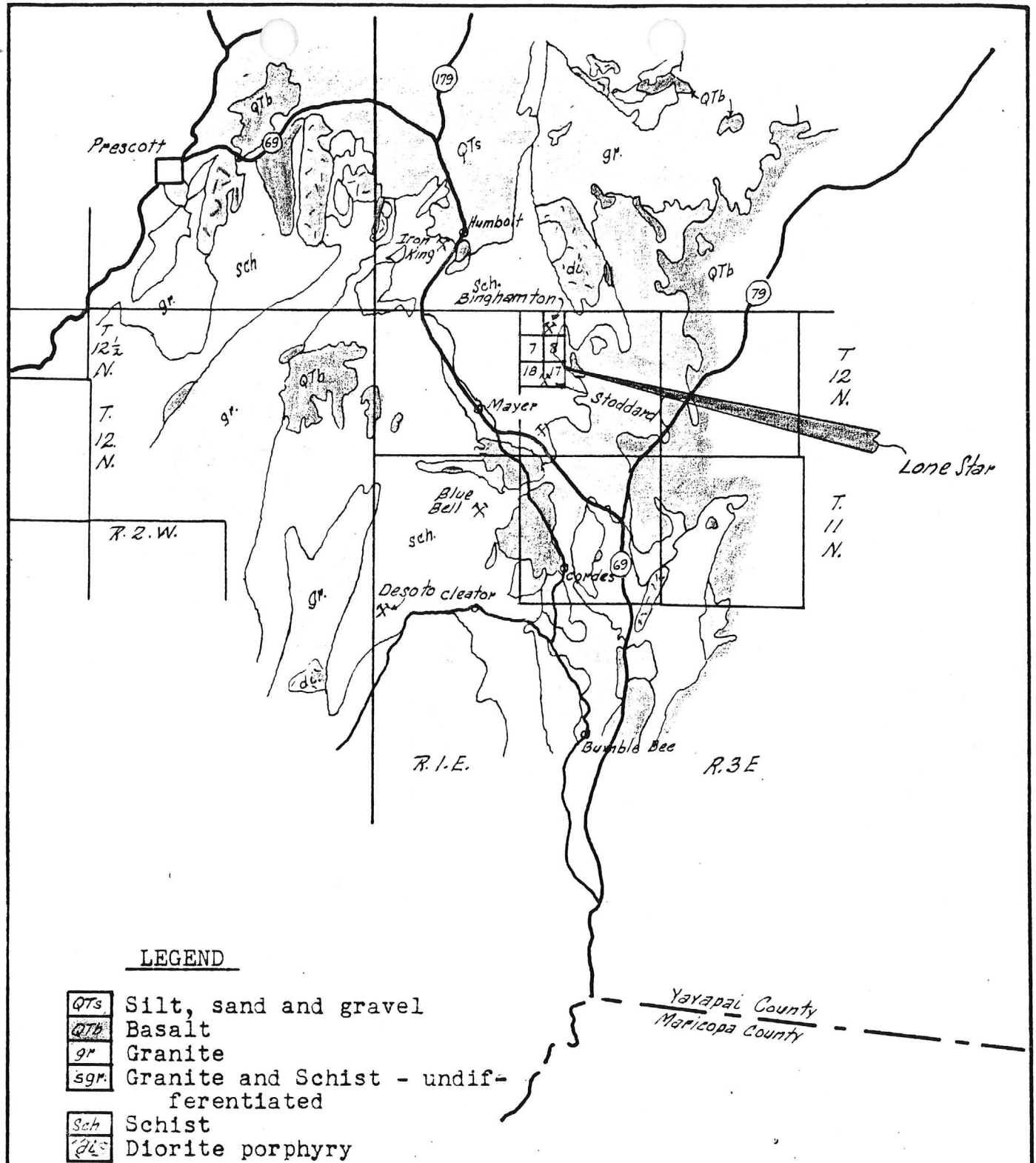
Map 3


Stonewall
Stonewall No. 1
Missing Link
North Star
7 8
18 17
Mayer
Trailer
Buildings
light Sch.
Qtz, CuOx, yel-grn
Pyrite
Shaft No 2
light Schist
Red FeOx,
CuOx
Portal
caved
Open
Stopes
Jasper
Plug
FeOx
CuOx
Samp "D"
FeOx
CuOx in Qtz
White Sch.
Tan-Brown
Silicified
Tan-Brown
Schist
Schist shows
smooth top on
surface - fault? --
N 20° E, 10° E. dip
Brwn Sch.-Red
FeOx, CuOx
Samp. "A"
Jasper
Flag
FeOx,
CuOx, 4' sill
30' deep
Tan - Brwn
Schist
Silicified
FeOx
Flag
Missing Link Ext.

Map 3


North Star
Blue Star
Luck Star
Lone Star No. 3
Lone Star No. 4
1500'
T. 12 N.
R. 2 E.
470'
S 78°-32'E-614'
476.3'
595.6'
1840
550'
650'
7 8
18 17
Stonewall No. 1
1500'
N. 24°-28'E. 1500'
Stonewall M.S. 4601
N. 24°-35'E 1500.9'
Missing Link M.S. 4601
1500.9'
N. 24°-35'E
Lone Star M.S. 4601
S. 24°-26'W - 1500'
Lone Star No. 1
Lone Star No 2
1600'
N. 78°-32'W. 610.6
476.3'
595.6'
Missing Link Ext.
120'
S. 88°W. 660'
840'
Stoddard Pat'd claims
CLAIM MAP
LONE STAR GROUP
Yavapai County, Arizona
Scale; 1"= 500 ft.
Mar., 1969
R.E. Mieritz

Map 2



LEGEND

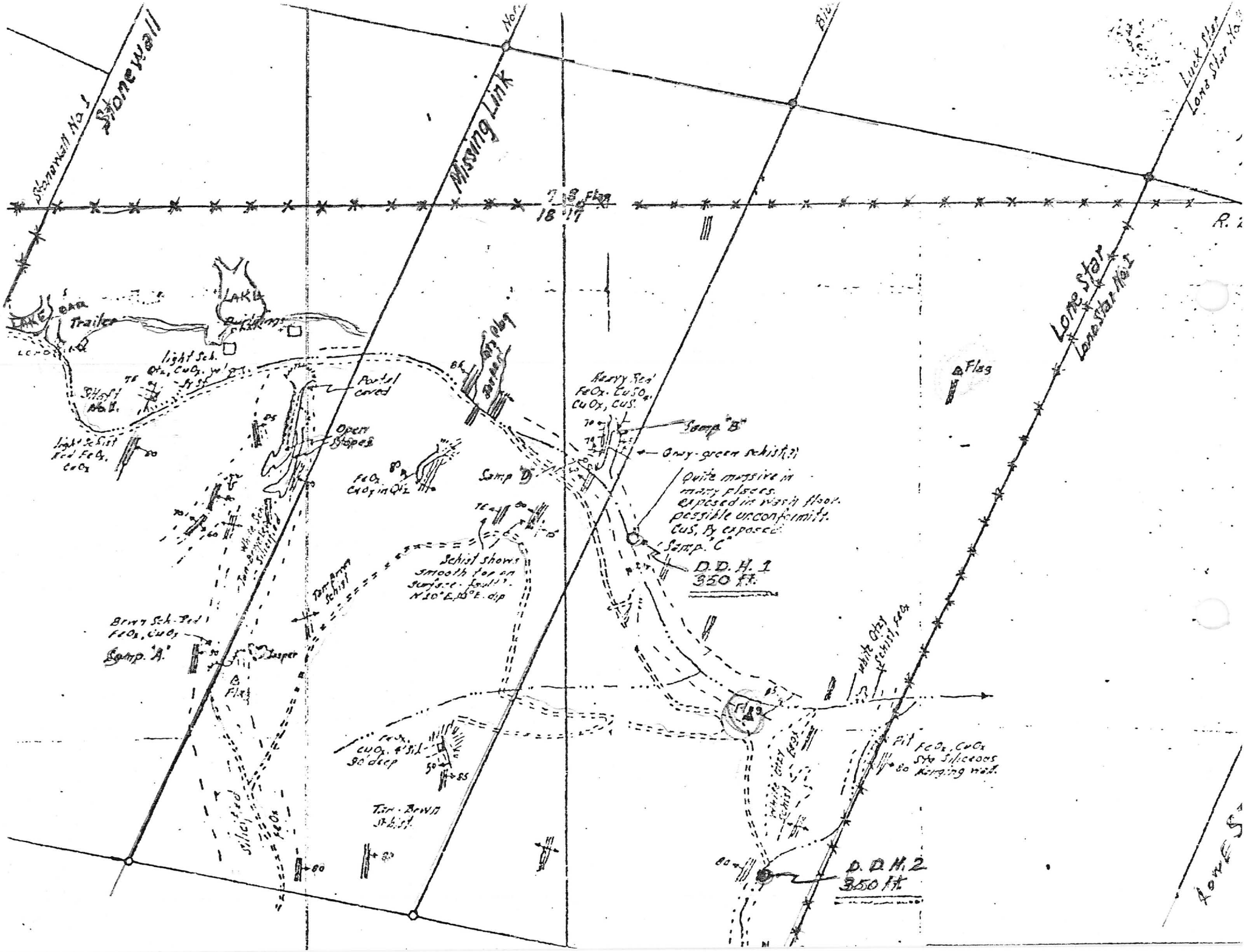
QTs	Silt, sand and gravel
QTb	Basalt
gr	Granite
sgr.	Granite and Schist - undifferentiated
Sch	Schist
di	Diorite porphyry

GEOLOGIC MAP
Portion of
Yavapai County, Arizona

Scale: 1" = 6 miles

Feb., 1969 R.E. Mieritz

Map 1


Stonewall
Stonewall No. 1
Missing Link
Lone Star
Lone Star No. 1
Lucky Star
Lone Star No. 2
Lake
Trailer
Lake
Shaft No. 1
Light Sch.
Qtz, CuOx, Py
Light & Sist
Red FeOx
CuOx
Portal
cored
Open
Stopes
FeOx
CuOx in Qtz
Samp "D"
Schist shows
smooth for an
surface. fault
N 30° E, 15° E. dip
Brown Sch. Red
FeOx, CuOx
Samp. "A"
Jasper
Flag
Tan-Brown
Schist
Tan Brown
Schist
Silicified
FeOx
Tan - Brown
Schist
Heavy Red
FeOx, CuSO4,
CuOx, CuS.
Samp "B"
Gray-green schist(?)
Quite massive in
many places.
exposed in wash floor.
possible unconformity.
CuS, By exposed
Samp. "C"
D.D.H. 1
350 ft.
Flag
White Gray
Schist, FeOx
White Gray
Schist
Pit FeOx, CuOx
Sta Siliceous
Retaining wall.
D.D.H. 2
350 ft.
Flag

Form 4-802
(November 1962)

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1963 AUG 16 AM 10:05

PHOENIX, ARIZONA

Serial Number

AR-032164

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Phoenix District Office

State Arizona

MINERAL REPORT

Application for Mineral Patent

of

Homer L. Wright

for the

Stonewall, Missing Link, and Lone Star
Lode Mining Claims

(Title)

LANDS INVOLVED

Yavapai County, Arizona
Gila and Salt River Meridian
T. 12 N., R. 2 E.
56.584 acres
in
Section 7 - SE¼
8 - SW¼
17 - NW¼
18 - NE¼

AUGUST 1, 1963

(Date)

By

AUG 5 1963

Donald F. Reed
Valuation Engineer (Mining)

Approved

District Manager

GPO 855-483

Orig: LO
cc: PDO(T&R)
cc: PDO(M)
cc: USGS
bks

Record Data:

On December 14, 1962, Homer L. Wright, P. O. Box 173, Mayer, Arizona, filed Application for Patent for the Stonewall, Missing Link and Lone Star lode mining claims, containing 56.584 acres and situate in Agua Fria Mining District, and covering portions of the SE¼ section 7, SW¼ section 8, NW¼ section 17, and NE¼ section 18, T. 12 N., R. 2 E., G&SRM, in Yavapai County, Arizona.

Land Office records show that the lands covered by these claims were patented to the State of Arizona on January 24, 1950, Patent No. 1128034, under Section 8 of the Act of June 28, 1934 (Taylor Grazing Act) and that all minerals were reserved to the United States.

This application therefore pertains only to the mineral rights and, if approved, will convey only the right to use so much of the surface as is necessary for the working of the mines.

Field examination was made July 8, 1963. The examiner was accompanied upon the examination by the applicant, Homer L. Wright.

All three claims were located on July 1, 1947, by Frank W. Upton. Upon his death, and through proper Probate Court proceedings, his widow Laura R. Upton became the sole owner of the claims. She transferred them to Homer L. Wright by deed on March 1, 1961.

Said Homer L. Wright filed amended locations on all three claims September 30, 1962.

Location, Accessibility, Identification:

The claims are situated about four miles (airline) northeast of the town of Mayer and the Black Canyon Highway. A branch line of the A.T.& S.F. Railway formerly ran through Mayer but has been abandoned. Its southerly terminal is now at Humboldt, eight miles north of Mayer. A good graded, but unsurfaced, road runs from Mayer to the claims.

They are in a mineralized belt or zone which is approximately one mile wide and three and one-half miles long, and which extends from the Binghampton Mine in section 6, south across sections 7, 8, 17, 18, and into 19 and 20, to Copper Mountain, in which are found seven copper mines mentioned and briefly described in Bulletin 782 of the U.S. Geological Survey, Ore Deposits of the Jerome and Bradshaw Mountains Quadrangles, Arizona, by Waldemar Lindgren, 1926. The seven mines, starting on the north, are the Binghampton Mine (producer of 150,000 tons of 3% copper, 2 ounces silver per ton); the Copper Queen

Mine (100 ton mill in 1922); Half Moon Mine, one mile south of the Binghampton; Stoddard Mine (had smelter, considerable production); Hall Mine (shipped ore) is half mile southwest of Stoddard; Big Bug Mine is 2000 feet due north of Copper Mountain (toward Stoddard); and the Robertson claim on summit of Copper Mountain.

The Wright claims adjoin the north line of the Stoddard claims and are therefore almost in the middle of this belt, with properties which have records of production on both sides of them.

The claims were identified from the mineral survey corners and the section corner common to sections 7, 8, 17 and 18.

Topography, Climate, Vegetation:

The claims are situated on gently sloping, bare or brushy hills between the Agua Fria River on the east and Big Bug Creek on the west. Elevations range from 4200 to 4500 feet above sea level. The claims lie across a draw which drains north and northeast into the Agua Fria River.

Temperatures range from 4° to 106° with an average mean of 60.8° and working conditions are good the year around.

There is no timber. The ridges and slopes are rather sparsely covered with brush, mostly scrub oak, with grasses and cacti.

Geology and Mineralization:

The country rock is chloritic schist with lenses of quartzite; also, in places, cherty bands and some schistose quartz porphyry. The general strike of the schistosity is about N. 10° W. The ore deposits of the region are considered to be Precambrian in age and to have been formed long before the development of the Precambrian peneplain upon which the Paleozoic beds were laid down. A great thickness--in places probably many thousand feet--was eroded before the present outcrops were exposed to daylight.

The most valuable deposits of the region are the pyritic copper deposits. These have produced far more than all the other deposits put together. They are replacement deposits in the schist and contain pyrite, chalcopyrite, sphalerite, arsenopyrite, and tetrahedrite or tennantite in a gangue of quartz, dolomite, ankerite, and sericite. The form of the deposits is tabular, lenticular or more or less rudely cylindrical. In the Stoddard area the deposits consist of thin overlapping tabular lenses which follow the schistosity.

Throughout the area the water level is irregular, ranging from 80 to 400 feet below the surface except in valleys with permanent water. It is generally small in quantity and much of it is distributed in pockets. With the irregular water level and scant supply, the limit between oxidized and primary ore is usually indefinite. As a result, the zone of secondary enrichment is usually very thin or not present at all. The oxidized zone may be from 100 to 400 feet thick and may be rich in gold and silver. Residual sulphides may be found close to the surface, and oxidation may reach below water level. Chalcocite, covellite and argentite (secondary sulphides of copper and silver) may be found high up in the oxidized zone wherever some primary sulphides are preserved. The underlying primary ore is usually much lower in grade than the oxidized ore.

Conditions of erosion, climate and water level have not been favorable for the development of a zone of secondary enrichment. Erosion has followed too close on the heels of disintegration and descending solutions. Chalcocite may be found at any place above the water level where fresh primary sulphides remain and does, in fact, appear at the very top of Copper Mountain (immediately south of the Wright claims) in silicified schist, although oxidized ore occurs much lower down.

The mineralization on the Wright claims is characteristic of the district. Mixed oxides, carbonates and secondary sulphides of copper are found in the outcrops of the schist. In general, the mineralized veins follow the schistosity, bearing N. 20° to 35° E. The dip is nearly 90° but is variable.

These claims <u>may</u> be located on the extension of the old Stoddard Mine vein.

Mineral showings on each of the claims are briefly described below.

<u>Stonewall claim</u>:

A vein in the schist 8" to 18" in width was exposed in the Discovery #1 shaft. It was highly mineralized, showing copper carbonates, oxides and secondary sulphides (chalcocite and bornite). The applicant reported that it ran 0.40 ounces gold (value $14.00) and 7.6 ounces silver (value $9.80) per ton, in addition to the copper. No sample was taken, since the very apparent copper content was sufficient to constitute discovery.

Another showing was found in improvement #4, a tunnel. The vein in this working was 16" to 24" in width and showed high grade copper values.

Missing Link claim:

Discovery tunnel #1 is 21 feet long and follows a 12" vein which contains good copper carbonates, oxides and secondary sulphides. Said to contain good gold and silver values as well. Not sampled.

In #2 shaft, the vein was 3 to 4 feet wide and also contained good copper carbonates.

Similar showings were found in improvements #3, 4, 5, and 6.

Lone Star claim:

A mineralized stringer or shoot, highly mineralized with copper carbonates and oxides, is found in the tunnel (improvement #2). It is reported to carry gold values also.

A vein which is 40 to 50 feet wide is exposed in the bottom of the wash near the eastern sideline of the claim. Mineralization in the form of copper carbonates and sulphides (chalcocite and bornite) is found in several places within this vein.

As is characteristic of the district, the mineralization follows the schistosity. The strike is approximately N.29° E. and the dip nearly vertical.

Development:

The applicant is the legal successor in interest to the original locator of the claims and as such may claim all of the improvements made by him thereon. The mineral survey lists and describes improvements as follows:

9 shafts	-	total depth 178 feet
7 tunnels	-	total length 373 feet
10 open cuts	-	total length 213 feet
1 trench	-	total length 37 feet

The total value of the above improvements is $8605. The value of improvements on each claim is:

Stonewall claim - - - - -	$4990
Missing Link claim - - - -	2360
Lone Star claim - - - - -	1255

These improvements were checked and found to be as described. The value of work done on each of the claims exceeds the $500 requirement for patent.

Conclusions:

The showings on all three claims are considered to be such as would justify a prudent man in expending time and money on the claims. Their geographic and geologic proximity and relationship to proven properties in the district make it highly probable that further exploration and development might open a profitable mine.

More than the required $500 worth of improvements have been made on each of the claims.

Recommendations:

The applicant having complied with the requirements of the law as to mineral discovery and improvement work, it is recommended that, all else being in order, the application be approved, the claims clear listed for patent, and patent issue.

Donald F. Reed
Valuation Engineer (Mining)

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		Partly frgl. Late webby dark qtz vnlts. Mod siln & sern. One, 2cm thick, coarse pink-flesh color feld vnlts.							
529.20	536.20	RHYOLITE							
		Light green-pink. Siln. Foln mod 60. Rhy, qtz phyric. Mod-strong siln. Some siln is hematitic. Tectonized.	529.20	536.20	NS	-	-	-	-
536.20	546.80	RHYOLITE							
		Light green. Sern, siln, & feld. Foln mod 60. Rhy. Siln & sern. Secondary feld growth. Blotchy areas of pink feld. Minor py vnlts. Assr min; tr py.	536.20	546.80	NS	-	-	-	-
546.80	548.10	GOUGE							
		Gray. Clay. Rhy? gouge. Strong clay development.	546.80	548.10	NS	-	-	-	-
548.10	551.00	RHYOLITE							
		Gray-green. Siln. Foln wk 55. Strong slcfd rhy.	548.10	551.00	NS	-	-	-	-
551.00	551.40	GOUGE							
		White. Clay. As 546.8-548.1ft.	551.00	551.40	NS	-	-	-	-
551.40	556.80	RHYOLITE							
		Buff. Siln. Foln mod 55. Qtz & feld vn xx. Rhy. Qtz phyric. Very strong siln. Some hem siln. Irregualr webby, qtz tour? vnlts. Assr min; tr py.	551.40	556.80	NS	-	-	-	-
556.80	568.30	RHYOLITE							
		Buff. Siln & sern. Foln mod 50. Qtz, py, feld vns xx. Rhy. Wl plag & qtz phyric. Mod siln & sern. Vnlts of qtz, plag. Minor webby qtz px vnlts. Assr min; tr py.	556.80	568.30	NS	-	-	-	-
568.30	569.00	GOUGE							
		Black. xx b/ft. Qtz, rhy, hrfl chop.	568.30	569.00	NS	-	-	-	-
569.00	575.00	HORNFELS							
		Light gray. Hrfls, px, gar altn. Foln mod 60. Qtz, py vn xx. Hrfls rhy. Very abundant webby qtz, px?, py vnlts. Mod, small (1mm) rose colored garnets. Still recognizable as rhy.	569.00	575.00	FX546349	3	206	4	0.005

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		Blotchy & vnlt py. Assr min; .5% py.							
575.00	582.80	HORNFELS							
		Green-black. Px, chlr, qtz, gar altn. Foln wk 60. Px, qtz vns xx. Hrfl. Not recognizable as rhy. Very abundant px? & qtz vnlts, w/ minoar gar. Vnlt & blotchy py. High angle vnlt network. Non-mtc. Assr min; 2.5% py.	575.00	582.80	FX546350	9	172	12	<0.005
582.80	588.70	HORNFELS							
		Light-dark gray. Px & gar altn. Foln wk 55. Px & qtz vns xx. Hrfl. Parts recognizable as rhy, parts not. Abundant high angle px. Qtz sx vnlt network. Clotty & vnlt py. Non-mtc. Minor gar. Assr min 2% py.	582.80	588.70	FX546351	2	166	10	<0.005
588.70	598.70	HORNFELS							
		Light gray. Px altn. Foln wk 60. Px & qtz vn xx. As 569-575ft. Assr min 2% py.	588.70	598.70	FX546352	5	156	6	0.01
598.70	610.20	RHYOLITE							
		Buff. Siln & sern. Foln wk 50. Qtz & px vns xx. As 556.8-568.3ft. Assr min tr py.	598.70	610.20	NS	-	-	-	-
610.20	619.40	RHYOLITE							
		Light green. Siln. Foln mod 50. Qtz vn xx. As 551.4-556.8ft. Assr min tr py.	610.20	619.40	NS	-	-	-	-
619.40	620.50	HORNFELS							
		Dark green. Px & chlr altn. Foln wk 50. As 582.8-588.7ft. Assr min tr py.	619.40	620.50	NS	-	-	-	-
620.50	621.30	GOUGE							
		Brown. xx b/ft. Lamprophyre & hrfl rhy mix.	620.50	621.30	NS	-	-	-	-
621.30	621.70	LAMPROPHYRE							
		Dark brown. Lamp. Px phenos, sanidine phenos. Grtc xenoliths. Fg matrix.	621.30	621.70	NS	-	-	-	-
621.70	622.10	GOUGE							
		Gray. Clay. xx b/ft. Clay rich gouge.	621.70	622.10	NS	-	-	-	-
622.10	623.50	LAMPROPHYRE							

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		Dark brown. As 621.3-621.7ft.	622.10	623.50	NS	-	-	-	-
623.50	630.30	GOUGE Gray. Clay. Foln mod 50. xx/ft. Chop & goug. Dominantly hrfl rhy. Variably variolithic lamp. Sanidine, px, mt, phenos. Feld, Feldspathoid varioles. Mod mtc 636-641ft. Grtc xenoliths.	623.50	630.30	NS	-	-	-	-
630.30	641.60	LAMPROPHYRE Variably variolitic lamp. Sanidine, px, mt, phenos. Feld, feldspathoid varioles. Mod mtc 636-641ft. Grtc xenoliths.	630.30	641.60	NS	-	-	-	-
641.60	673.10	HORNFELS Gray. Px, gar, adular altn. Foln mod 45. Qtz & ands vn 55. Hrfl. Mod-strong altn of rhy. Mostly as 582.8-588.7ft. At 660.8ft adularia vnlt w/ gal. At 668ft opalescent white to pink to black qtz vnlt. Minor ser, minor epid. Assr min; .5% py, tr gal.	641.60	673.10	NS	-	-	-	-
673.10	674.60	GOUGE Gray-brown. Clay. xx b/ft. Gouge hrfl & lamp.	673.10	674.60	NS	-	-	-	-
674.60	678.60	HORNFELS Gray. Px & epid altn. Foln mod 50. As 641.6-673.1ft.	674.60	678.60	NS	-	-	-	-
678.60	681.60	GOUGE Gray-brown. Clay. xx b/ft. Gouge hrfl & lamp.	678.60	681.60	NS	-	-	-	-
681.60	684.50	HORNFELS Gray. Foln wk 50. Qtz & adularia vns 40. Hrfl. Spotted. Qtz & adularia vnlt.	681.60	684.50	NS	-	-	-	-
684.50	688.50	RHYOLITE Pink. Siln & oxn. Foln wk 50. Lim vn xx. Rhy? Dac? Strong siln. Mod-strong oxn. Webby lim vnlts. Cubic lim pits.	684.50	688.50	NS	-	-	-	-
688.50	690.70	GOUGE Red. Clay. Oxidized chop & gouge.	688.50	690.70	NS	-	-	-	-

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
690.70	696.90	DACITE Pink. Oxn. Foln wk 45. Lim vn xx. Dac. Siln. Abundant webby lim vnlts. Minor qtz vnlts. Cubic lim pits.	690.70	696.90	NS	-	-	-	-
696.90	701.70	DACITE Light green. Sern & sulf. Foln wk 50. Qtz & ser vnlts xx. Dac. Wk plag phyric. Fairly massive & uniform. Irregular qtz vnlts. Py w/ vnlts & in clots w/ some large xls. Minor lim along some vnlts. Mod siln sern. Assr min; 2% py, tr sph.	696.90	701.70	FX546353	61	270	6	<0.005
701.70	705.70	DACITE Light green. Siln & sern altn. Foln wk 40. Qtz vn 60, lim vn xx. 2 b/ft. As 696.9-701.7ft. Assr .5% py.	701.70	705.70	FX546354	19	144	12	<0.005
705.70	710.50	DACITE Light green. Siln & sern altn. Foln wk 45. Qtz vn 65, lim vn xx. As 696.9-701.7ft. Assr min; 2% py, tr sph.	705.70	710.50	FX546356	51	240	16	<0.005
710.50	710.90	QUARTZ VEIN White. CA 65. Qtz vn w/ chlr & saome dac. Assr tr py.	710.50	715.30	FX546357	56	106	8	<0.005
710.90	715.30	DACITE Light green Siln & sern altn. Foln wk 40. Qtz vn 70, lim vn xx. As 696.9-701.7ft. Assr min; 1% py, .5% sph.							
715.30	720.00	DACITE Light green. Foln 10 & 40. Qtz vn 40, lim vn xx. Assr min; 2% py, .5% sph, .5% aspy.	715.30	720.00	FX546358	121	158	16	<0.005
720.00	724.80	DACITE Light green. Siln & sern altn. Foln wk 40-60. Qtz vn 40. As 606.9-701.7ft. Minor honey sph. Assr min; 4% py, tr py, 1% sph, tr aspy.	720.00	724.80	FX546359	862	252	82	<0.005
724.80	726.80	DACITE Light green. Siln & sern altn. Foln wk 40. Qtz vn 40. As 696.9-701.7ft.	724.80	726.80	FX546360	21	86	4	<0.005

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
		Assr min; 1% py, tr sph, tr aspy.							
726.80	731.70	DACITE Green. Siln altn. Foln wk 40. Qtz vn xx. Dac. Fairly fresh. Minor siln. Mod plag phyric. Clotty & vnlt sulphide. Mod irregular qtz vnlts. Assr min; 1.5% py, .5% sph, tr aspy.	726.80	731.70	FX546361	35	74	6	<0.005
731.70	734.00	DACITE Green. Siln altn. Foln wk 50. Qtz vn xx. As 726.8-731.7ft. w/ more abundant siln. Assr min; 5% py tr sph, tr aspy.	731.70	734.00	FX546362	130	70	14	<0.005
734.00	748.50	DACITE Green. Siln & sern altn. Foln wk 50. Qtz vn xx. Dac, fairly fresh. Wk siln & sern altn. Mid irregular qtz vnlts. Clotty & vnlt sulphide. Uniform. Assr .5% py.	734.00	748.50	NS	-	-	-	-
748.50	750.40	DACITE Light green. Siln & sern altn. Foln wk 45. Qtz vn 45. Dac, mod siln & sern altn. Clotty & vnlt py. Minor qtz vnlt. Minor plag phyric. assr 3% py.	748.50	756.50	FX546363	136	230	114	<0.005
750.40	751.20	QUARTZ VEIN White. CA 65. Qtz vn w/ sern & flesh colored epidote.							
751.20	756.50	DACITE Light green. Siln & sern altn. Foln wk 60. qtz vn 60. As 748.5-750.4. Assr 3% py.							
756.50	762.40	DACITE Gray-green. Siln altn. Foln wk 60. Qtz vn xx. Dac. Wkly plag phyric. Mod qtz vnlts. Assr min; 4% py, tr sph, tr gal.	756.50	762.40	FX546364	290	62	30	<0.005
762.40	776.00	ANDESITE Dark green. Foln wk 45. Ands, uniform, massive, minor amygs, w/ chlr & py. Clotty py both foln parallel & not. Fairly fresh. Assr 1.5% py.	762.40	776.00	NS	-	-	-	-

FROM Ft	TO Ft	DESCRIPTION	FROM Ft	TO Ft	SAMPLE#	Cu PPM	Zn PPM	Pb PPM	Au PPB
776.00	822.00	ANDESITE Green. Sern altn. Foln wk 45. Qtz vn xx. Ands, pervasive wk sern. Blotchy patches of stronger sern. Massive & uniform. Minor amygs, irregular qtz vnlt some webby. Clotty & vnlt py, minor fragmental looking zones. Some young webby py vnlts. Assr tr-1% py. EOH.							
			776.00	822.00	NS	-	-	-	-

Stonewall

A

GEOLOGIC

and

EXPLORATION POSSIBILITY

REPORT

on the

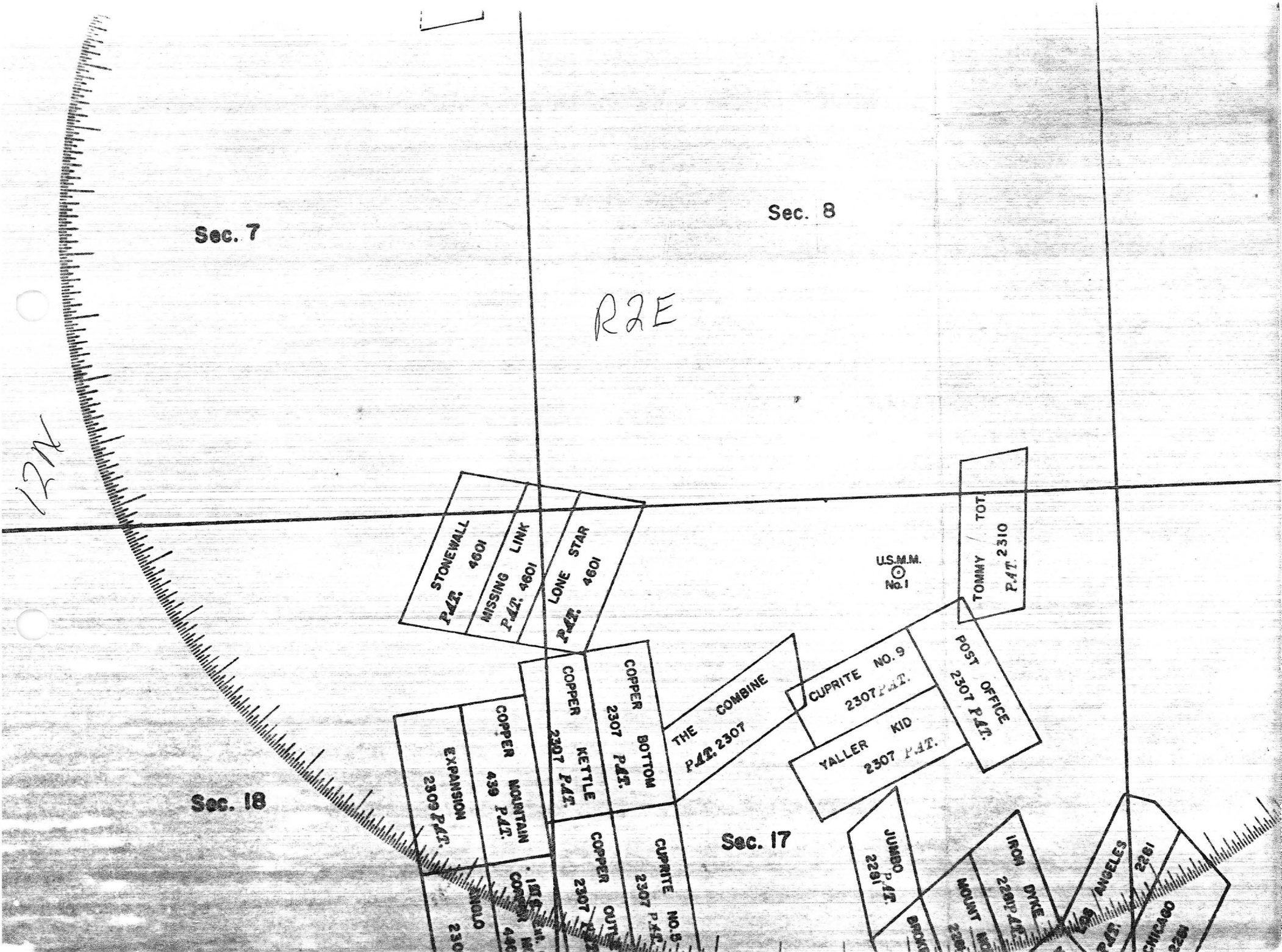
LONE STAR CLAIMS

Yavapai County, Arizona

by

R. E. Mieritz
Mining Consultant
Phoenix, Arizona

March 13, 1969


Sec. 7
Sec. 8
R2E
T21N
Sec. 18
Sec. 17
STONEWALL PAT. 4601
MISSING LINK PAT. 4601
LONE STAR PAT. 4601
U.S.M.M. No. 1
TOMMY / TOT PAT. 2310
COPPER BOTTOM 2307 PAT.
COPPER KETTLE 2307 PAT.
THE COMBINE PAT. 2307
CUPRITE NO. 9 2307 PAT.
YALLER KID 2307 PAT.
POST OFFICE 2307 PAT.
EXPANSION 2309 PAT.
COPPER MOUNTAIN 439 PAT.
COPPER CUTTER 2307
CUPRITE NO. 5 2307 PAT.
JUMBO PAT. 2261
IRON DYKE 2261 PAT.
MOUNT MOUNTAIN
LOS ANGELES 2261
CHICAGO 2261

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE
2400 VALLEY BANK CENTER
PHOENIX, ARIZONA 85073

IN REPLY REFER TO

AR 032164 (940)

December 23, 1977

Mr. Ray Kennedy
Box 602
Mayer, Arizona 86333

Dear Mr. Kennedy:

I am writing in regard to the problem involving your mining claims near Mayer, Arizona, that you discussed with me and with Mr. Irvin McLuty of the State Land Department in your visits to our offices last week. I am sending a copy of this letter and attachments to State Land Commissioner Andrew L. Bettwy to describe for them the problem as we see it and to assure that Department, as well as yourself, that we will do what we can to help resolve the problem.

In summary, the situation is this. The United States has issued patents to both the State and your predecessor in interest, Homer L. Wright, for the same parcel of land. The State's patent conveyed only the surface estate, and reserved the mineral estate to the United States. Mr. Wright received a mineral patent to three (3) lode mining claims. The chain of events is as follows:

1. 1947 - the Lone Star, Missing Link and Stonewall lode mining claims were located on public lands in sections 7, 8, 17, and 18, T. 12 N., R. 2 E., GSR Mer., Arizona.

2. January 24, 1950 - exchange patent issued to the State Land Department for the surface estate on the public lands in sections 7, 8, 17, and 18, T. 12 N., R. 2 E., GSR Mer., Arizona, including the lands covered by the unpatented Lone Star, Missing Link and Stonewall lode mining claims. The patent to the State included the reservation to the United States of "all minerals in the lands so granted, together with the right to prospect for, mine and remove same..."

3. 1962 - Mineral Survey 4601, approved November 8, 1962, on the Stonewall, Missing Link and Lone Star lodes.

4. September 13, 1963 - mineral patent issued to Homer L. Wright for the Lone Star, Missing Link and Stonewall lode mining claims. The patent was subject to several stipulations including "As to those portions of the above described premises lying within sections 7, 8, 17, and 18, said Township and Range, which have been patented under Section 8 of the Act of June 28, 1934 (48 Stat. 1272), as amended by the Act of June 26, 1936 (49 Stat. 1976), subject to a reservation of the minerals to the United States together with the right to prospect for, mine and remove the same, the grantee hereunder shall have the right to enter upon and occupy only so much of the surface as may be required for all purposes incident to the prospecting for, mining and removal of the minerals granted by this patent."

Attached are copies of the two (2) patents, the mineral survey plat, and our master title plat.

You ask who owns the surface of the three (3) mining claims, you as the successor in interest, or the State Land Department. We do not have the authority to make this determination, and quite frankly, do not know who owns the surface. It can be argued that the State Land Department got title to the surface prior to the issuance of the mineral patent. On the other hand, the three (3) lode mining claims were reportedly located in 1947 prior to the patent to the State, and the mineral patent might be considered confirmation of the title which Mr. Wright acquired on the date of location of the claims. The United States no longer has any interest in this land, having conveyed both the surface and the mineral estates. It appears to us that this may be a matter that would have to be settled by the Courts, unless some agreement can be reached between you and the State Land Department.

I have requested the case files on the mineral application and State exchange application to see what information they contain about knowledge of the existence of the unpatented mining claims at the time the State exchange patent was issued. This may have some bearing on a decision that would provide an equitable solution to this problem. It may be several months or more before we can get the State exchange case file which has been sent to the Archives in Washington, D. C.

In summary, it appears to me that this is a matter that you will have to attempt to resolve with the State Land Department. We will provide whatever additional information we can as soon as we can get it.

During your visit to this office, you also mentioned that you have a number of other unpatented mining claims surrounding the three (3) patented claims in these same sections. You explained that these unpatented mining claims were located in 1927 and you want to acquire mineral patents on them. I would recommend that before you invest substantial time and money in surveying the claims, you may want to get a resolution on the surface ownership issue and an expert evaluation of the mineral discoveries. In many instances, we find that valid mining claims which go to mineral patent are surrounded by a halo of other unpatented mining claims located to protect the operating mine from encroachment by others. Generally, the miners patented what they could get and retain the "buffer zone claims" in an unpatented status. If the surrounding claims did not warrant mineral patents in the 1940's, they probably have an even poorer chance of qualifying for mineral patent under today's economic conditions.

Sincerely yours,

Glendon E. Collins

Glendon E. Collins
Chief, Division of Technical Services

Enclosures

cc:
Andrew L. Bettwy
State Land Commissioner
(w/encl.)

RECEIVED
DEC 27 1977
STATE LAND DEPT.
1880