CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 01/15/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CONGRESS PORPHYRY COPPER

ALTERNATE NAMES:

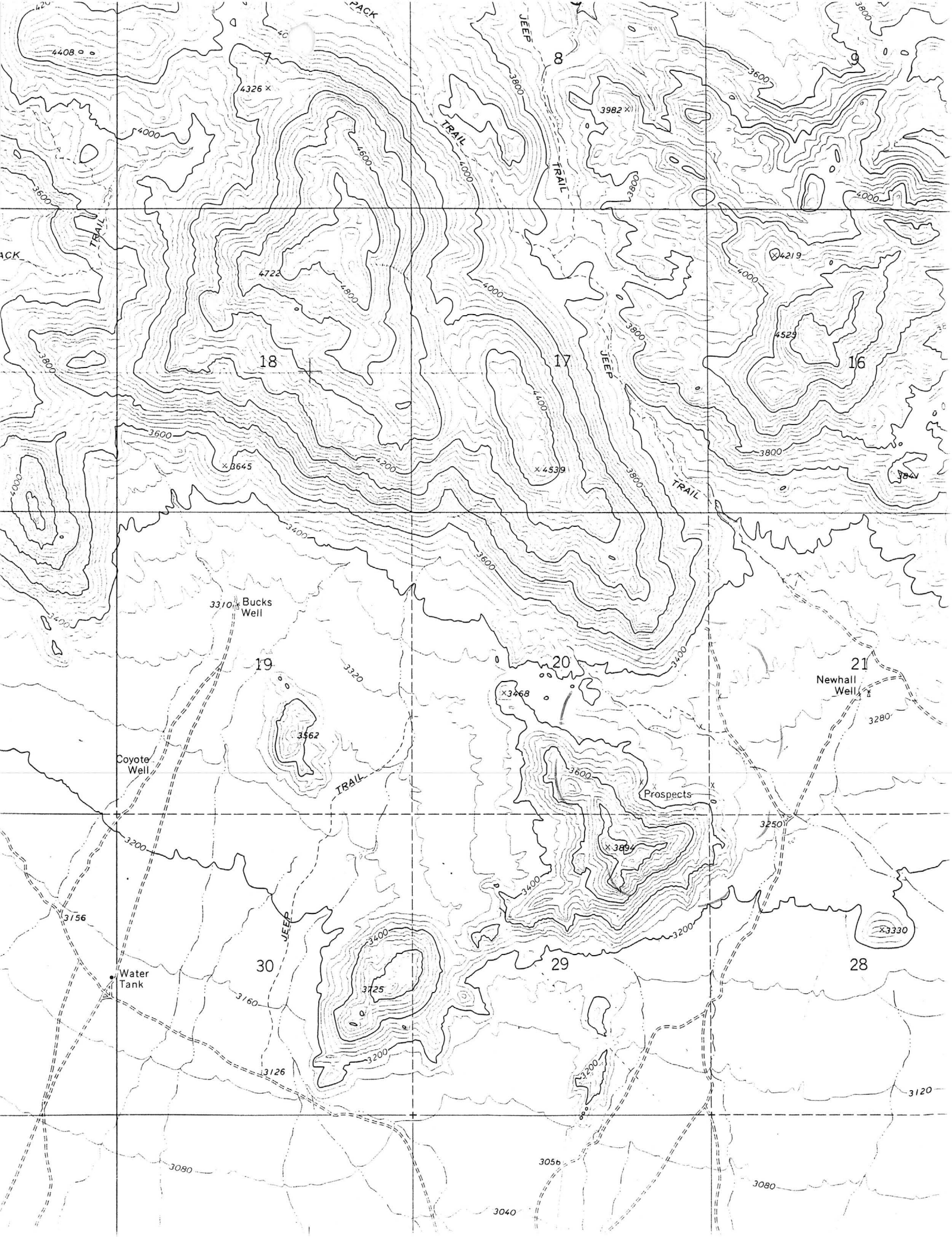
YAVAPAI COUNTY MILS NUMBER: 296

LOCATION: TOWNSHIP 10 N RANGE 6 W SECTION 20 QUARTER SE
LATITUDE: N 34DEG 11MIN 15SEC LONGITUDE: W 112DEG 53MIN 37SEC
TOPO MAP NAME: O'NEILL PASS - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
- COPPER OXIDE
- COPPER SULFIDE
- MOLYBDENUM
- SILVER

BIBLIOGRAPHY:
- USGS O'NEILL PASS QUAD
- ADMMR CONGRESS PORPHYRY COPPER FILE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Newhall Well
3280
3562
Coyote Well
Prospects
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Water Tank
3725
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3080
3056
3040

Date Printed: 09/16/97

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION SUMMARY

Information from: **Rich Lundin**

Company:

Address: 383 Venus Drive
City, State ZIP: Prescott, Arizona 86301-1256
Phone: 520-778-6222

MINE: **Congress Porphyry Copper**

ADMMR Mine File: Congress Porphyry Copper
County: **Yavapai**
AzMILS Number: **296**

SUMMARY

Rich Lundin provided the ADMMR with the opportunity to copy a data file on the Congress Porphyry Copper deposit [Yavapai AZMILS 296] for the Department's files. The copies cover 90 pages of sample data, geologic reports, and responses from submittals. The pages are numbered L1 of 90 through L90 of 90 with pages 89 and 90 blank. Four pages are color copies of colored originals.

Ken A. Phillips, Chief Engineer Date: September 16, 1997

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: AMERICAN COPPER & NICKEL CO.

1040 SANDRETTO DR.
PRESCOTT, ARIZONA
86301

A972182

Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

CERTIFICATE A9721829

(DRP) - AMERICAN COPPER & NICKEL CO.

Project: 303682
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 1-MAY-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0

Congress BP

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geologic materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project Statement required by Nevada State Law NRS 519

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: AMERICAN COPPER & NICKEL CO.

1040 SANDRETTO DR.
PRESCOTT, ARIZONA
86301

Project : 303682
Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

Certificate Date: 01-MAY-97
Invoice No. : I9721829
P.O. Number :
Account : DRP

CERTIFICATE OF ANALYSIS A9721829

SAMPLE	PREP CODE		Cu %									
RX339532	244	--	1.16									

CERTIFICATION: Hart Bichler

7 20/90

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: AMERICAN COPPER & NICKEL CO.

1040 SANDRETTO DR.
PRESCOTT, ARIZONA
86301

A972122

Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

CERTIFICATE A9721225

(DRP) - AMERICAN COPPER & NICKEL CO.

Project: 303682
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 27-APR-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	20	Geochem ring to approx 150 mesh
226	2	0-3 Kg crush and split
234	18	0-7 Kg splitting charge
229	20	ICP - AQ Digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
99	20	Au ppm : Fuse 30 g sample	FA-AAS	0.005	10.0
1800	20	Au g/tonne: calculation	CALCULATION	0.01	50
2118	20	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2120	20	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2123	20	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2128	20	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2131	20	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2136	20	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2140	20	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	20	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2149	20	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Congress BP

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geologic materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project Statement required by Nevada State Law NRS 519

7 3 8/90

Chemex Labs, Inc.

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994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: AMERICAN COPPER & NICKEL CO.

1040 SANDRETTO DR.
PRESCOTT, ARIZONA
86301

Project : 303682
Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

Certificate Date: 26-APR-9
Invoice No. : I9721225
P.O. Number :
Account :DRP

* PLEASE NOTE

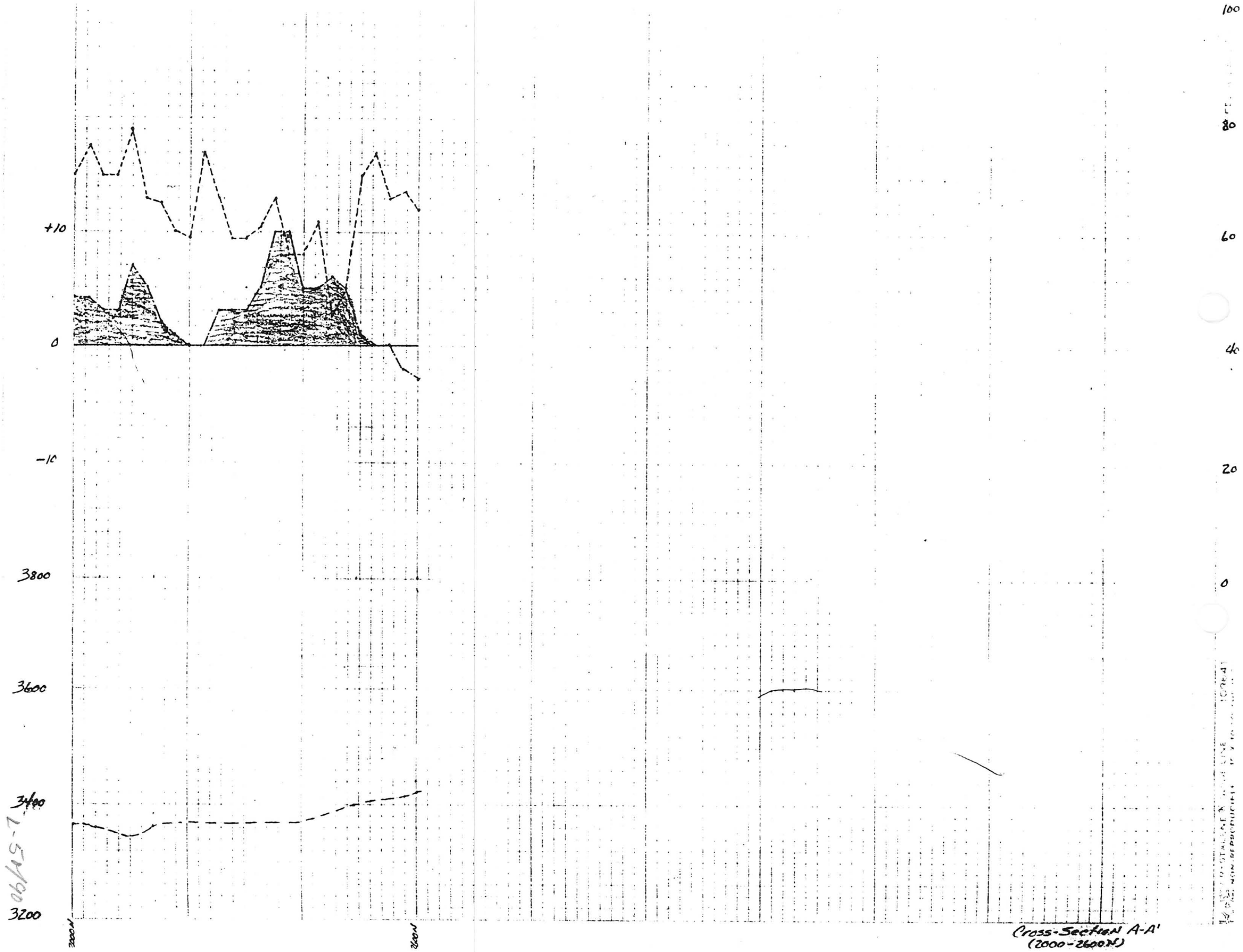
CERTIFICATE OF ANALYSIS A9721225

SAMPLE	PREP CODE		Au ppm FA+AA	Au g/t calc.	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm			
RX339523	205	226	0.005	< 0.01	< 0.2	14	< 2	58	< 1	< 1	6	4	28			
RX339524	205	226	0.025	0.03	< 0.2	32	< 2	169	< 1	1	34	10	38			
RX339525	205	234	0.015	0.01	< 0.2	14	< 2	79	< 1	2	10	6	48			
RX339526	205	234	0.015	0.01	0.2	38	< 2	262	< 1	2	16	20	44			
RX339527	205	234	0.020	0.02	5.8	554	< 2	6080	3	< 1	100	216	292			
RX339528	205	234	0.010	0.01	0.2	48	< 2	224	< 1	1	10	32	48			
RX339529	205	234	0.060	0.06	0.2	72	< 2	477	< 1	1	10	32	112			
RX339530	205	234	0.055	0.05	3.6	538	< 2	2410	2	1	84	218	172			
RX339531	205	234	0.050	0.05	3.2	608	< 2	7170	1	2	104	156	250			
RX339532	205	234	0.070	0.07	4.8	756	Intf*	>10000	2	1	208	170	340			
RX339533	205	234	0.030	0.03	2.2	368	< 2	704	1	< 1	148	144	50			
RX339534	205	234	0.055	0.05	3.0	690	< 2	5350	3	< 1	82	288	300			
RX339535	205	234	0.035	0.04	3.0	650	< 2	5560	3	< 1	180	186	318			
RX339536	205	234	0.040	0.04	3.8	780	2	4040	3	< 1	296	204	296			
RX339537	205	234	0.085	0.09	5.2	904	2	7370	3	< 1	252	196	338			
RX339538	205	234	0.020	0.02	5.4	492	< 2	6180	3	< 1	90	202	276			
RX339539	205	234	0.025	0.03	6.2	590	< 2	6410	3	< 1	106	216	296			
RX339540	205	234	0.050	0.05	3.2	782	< 2	4600	2	< 1	102	178	302			
RX339541	205	234	0.010	0.01	1.0	250	< 2	1200	1	1	14	80	128			
RX339542	205	234	0.015	0.01	5.6	1330	< 2	3950	6	< 1	12	436	572			

CERTIFICATION: Hart Bichler

* INTERFERENCES: Cu on Bi

7 4 8/90



Cross-Section A-A'
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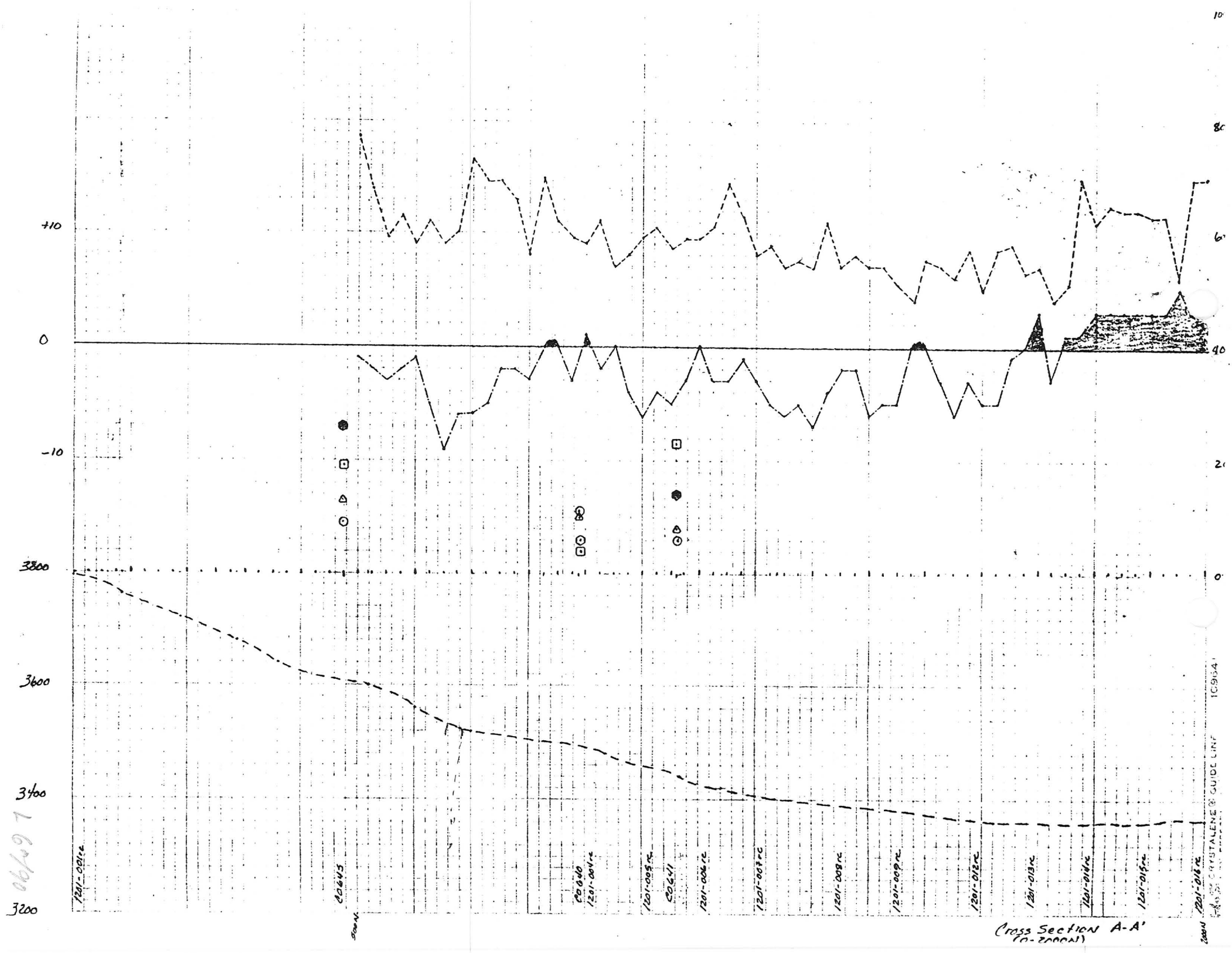
L-5/90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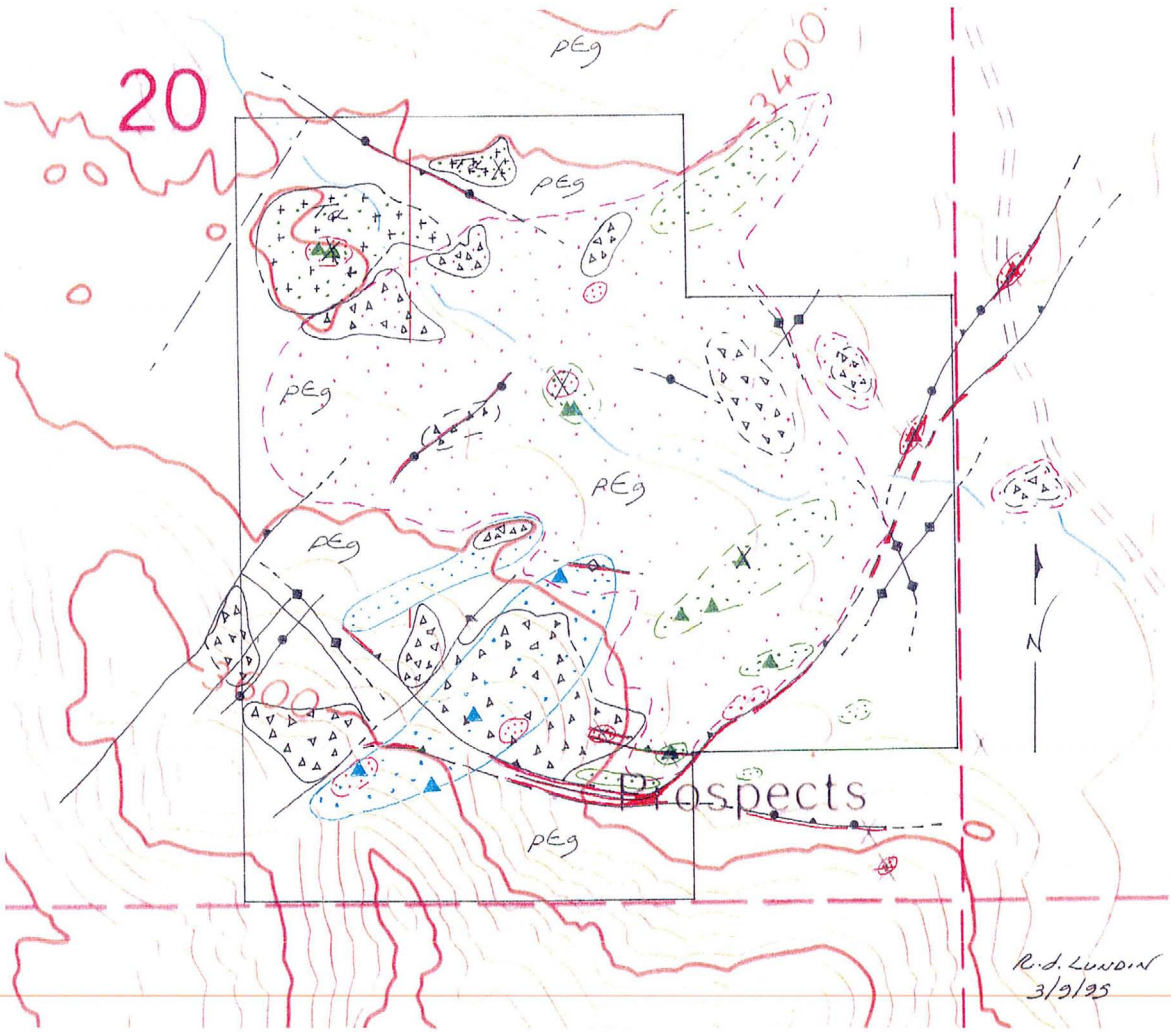


FIGURE 1: GENERALIZED GEOLOGICAL, GEOCHEMICAL AND ALTERATION MAP OF THE CBP GRP., SECTION 20, TWP. 10N, R. 6W YAVAPAI COUNTY, ARIZONA

SCALE: 1"= 500'

Property Boundary
Breccia Pipes

LEGEND:
Fault Systems
Prospects

VLF-EM Anomaly

GEOLOGY:
Precambrian:
pEg — Granite, Granite Gneiss
Aplites/Quartz Veins
Tertiary:
Lamprophyre, Mafic dikes
Quartz/Carbonate Veins

ALTERATION:
Quartz-sericite

GEOCHEMISTRY:
AU: >.01 PPM
>.10 PPM
CU: >100 PPM
>1000 PPM
MO: >10 PPM
>100 PPM

L 70/90

phelps dodge Mining Company
Exploration Group
P.O. Box 50427, Tucson, AZ 85703-1427
1810 West Grant Road, Suite 103, Tucson, AZ 85745
Telephone: (602) 792-4981 Telecopier (602) 882-9461

August 17, 1992

Mr. Thorny Rogers
559 W. Tam-O-Shanter Dr.
Phoenix, Arizona 85023

RE: Congress Porphyry Copper Submittal, Yavapai County, Arizona - 244

Dear Thorny:

As we discussed over the phone, it does not appear that the Congress property has the size potential needed for further consideration by Phelps Dodge. Included is the data generated from my examination of the prospect and reports provided in the original submittal package.

Please feel free to give me a call if you need additional information or would like to discuss the results further. Thank you for submitting your property to Phelps Dodge.

Very truly yours,

Randal O. White/cc

Randal O. White
Senior Geologist

ROW:row

L 80/90

Inelpa Dodge

PD44/92

Q244AZ
O'Neill Pass Congress
244-10-6-
ROW

20-1a

SPL DATE: 7-7-92

This represents a porphyry that originally contained plagioclase and hornblende as well as needle-like apatite. Probably it was a basic rock. It has been silicified with large clear quartz grains forming in the matrix and paste-like sericite replacing the former plagioclase.

20-1b

This is the same rock as above and again with strong quartz growth in the matrix and development of sericite at the expense of plagioclase. Acicular apatite remains as a common accessory and some hornblende is incorporated in quartz as protected inclusions.

20-2a

This is a basic rock that may well be the silicified material seen in the samples above. Here it is replaced mostly by calcite and pennine with some quartz forming in the matrix. Large apatite crystals are common and represent a primary mineral. Oxidized chalcopyrite is abundant here.

20-2b

This is probably the same rock as the three samples described above but here plagioclase is mostly fresh and apatite can seen to have formed during late magmatic times, not as a result of hydrothermal events. Mafites are replaced by pennine, calcite, and accessory Fe/Ti-oxides. The original rock was a diabase.

20-3a

This appears to represent a granitic gneiss composed of quartz, microcline, and plagioclase; the latter mineral is dusted with synmetamorphic muscovite. Traces of pyrite seen in the rock appear to be compatible with the metamorphic event.

L 9/6/90

20-3b

The same granitic gneiss as above but here with muscovite more strongly developed from plagioclase. Microcline is fresh and quartz remains strained as a result of the metamorphic event. Traces of pyrite seem synmetamorphic in age.

20-3c

A granitic gneiss texturally somewhat different than the two samples above and composed of plagioclase, microcline, quartz, and muscovite. Where muscovite has developed from plagioclase there may be oxidized pyrite cubes.

21-1a

This is a granitic gneiss composed of quartz, microcline, plagioclase, and muscovite. The latter mineral has formed largely at the expense of plagioclase during the metamorphism.

21-1b

This is a granitic gneiss composed of microcline, quartz, plagioclase, and muscovite which has developed in the plagioclase. Epidote is also present as an alteration product of mafites and plagioclase and it may mantle the occasional synmetamorphic pyrite grains that were seen.

20-4

This rock is a greisen composed of quartz and muscovite with accessory pennine, apatite, and rutile. The nature of the protolith is unclear for its textures have been blotted out. Chrysocolla invades and replaces muscovite in many places.

20-5a

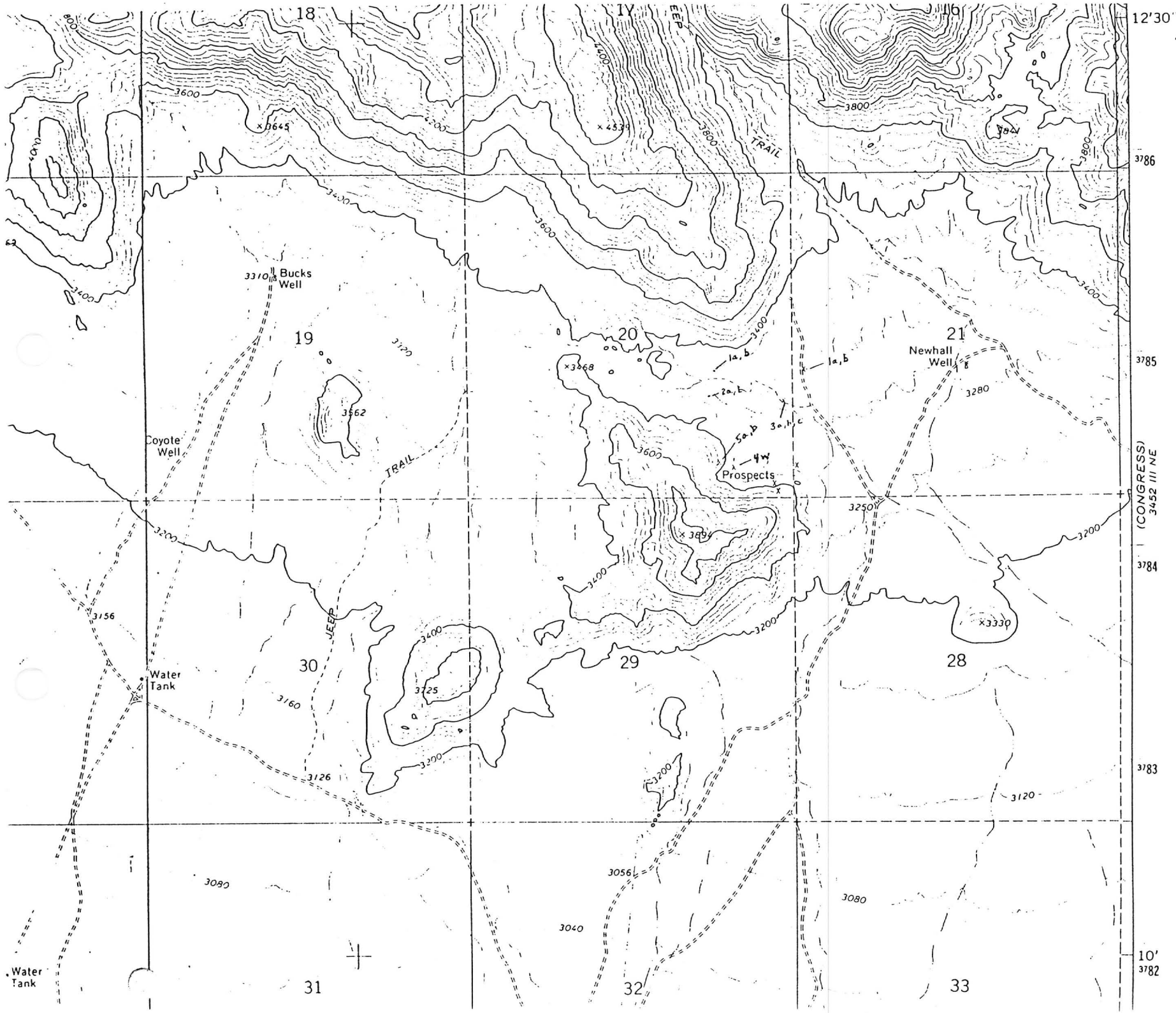
The nature of the starting material is unclear except to note that it appears to have been brecciated or fragmented prior to strong silicification. Granular quartz replaces fragment domains differing from one to another in grain size and texture. Sericite/muscovite has replaced mafites and plagioclase.

L 10 of 90

20-5b

This is a coarse grained tonalitic gneiss composed of plagioclase and quartz. Sericite and Fe-oxides cloud the plagioclase and small amounts of earlier synmetamorphic muscovite also occur within it. The muscovite may be associated with oxidized pyrite.

L 11/8/90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Water Tank

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

LOCATION:
O'NEILL PASS QUAD. 244
CONGRESS
ARIZONA

JOB NUMBER TEO 3898
July 14, 1992
4410-4421

PHELPS DODGE CORPORATION
Western Exploration Office
P.O. Box 50427
Tucson, AZ 85703-1427

REPORT OF ANALYSIS

Analysis of 12 Rock Chip Samples

RANDY WHITE

SPL DATE: 7-7-92

T NUMBER	ITEM	SAMPLE NO.	TWNP	RGE	SEC	NO.	Bi (ppm)	Co (ppm)	Ni (ppm)	Cd (ppm)	Te (ppm)	Se (ppm)	Tl (ppm)	W (ppm)
9223	1	4410	10	6	20	1a	.3	38.	60.	.8	< .1	< .1	.5	< 2.
9224	2	4411				1b	.1	28.	30.	.8	< .1	< .1	< .5	< 2.
9225	3	4412				2a	6.0	55.	125.	15.0	1.1	< .1	.5	< 2.
9226	4	4413				2b	.2	32.	22.	1.0	.1	< .1	.5	< 2.
9227	5	4414				3a	.2	2.	2.	< .1	.1	< .1	< .5	< 2.
9228	6	4415				3b	.3	2.	2.	< .1	.2	< .1	< .5	< 2.
9229	7	4416				3c	.7	6.	6.	.1	.4	< .1	< .5	< 2.
9230	8	4417			21	1a	.7	2.	2.	< .1	.8	< .1	< .5	< 2.
9231	9	4418				1b	1.7	< 2.	2.	< .1	1.1	< .1	< .5	< 2.
9232	10	4419			20	4	.1	6.	6.	9.0	.1	< .1	.5	< 2.
9233	11	4420				5a	< .1	< 2.	6.	< .1	< .1	< .1	< .5	< 2.
9234	12	4421				5b	< .1	2.	4.	.2	< .1	< .1	.5	< 2.

REGISTERED ASSAYER
CERTIFICATE NO. 9425
WILLIAM L. LEHMBECK

William L. Lehmbeck
Manager

7/14/92

L 13790

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

LOCATION:
O'NEILL PASS QUAD. 244
CONGRESS
ARIZONA

JOB NUMBER TEO 3898
July 14, 1992
4410-4421

PHELPS DODGE CORPORATION
Western Exploration Office
P.O. Box 50427
Tucson, AZ 85703-1427

REPORT OF ANALYSIS

Analysis of 12 Rock Chip Samples

RANDY WHITE

SPL DATE: 7-7-92

T NUMBER	ITEM	SAMPLE NO.	TWNP	RGE	SEC	NO.	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
9223	1	4410	10	6	20	1a	.011	.45	17.0	4.4	14.	70.	235.	6.
9224	2	4411				1b	.065	.45	32.0	60.0	225.	60.	125.	2.
9225	3	4412				2a	.036	17.00	2.8	1.0	11500.	18.	5100.	< 2.
9226	4	4413				2b	.024	1.40	1.6	1.0	2450.	18.	1150.	< 2.
9227	5	4414				3a	.030	1.50	1.2	.6	65.	6.	28.	< 2.
9228	6	4415				3b	.065	.35	.8	.6	34.	22.	12.	6.
9229	7	4416				3c	.120	1.70	1.6	.6	40.	26.	18.	< 2.
9230	8	4417			21	1a	.026	.30	1.0	.5	8.	85.	8.	< 2.
9231	9	4418				1b	.006	1.80	.8	.4	55.	105.	12.	< 2.
9232	10	4419			20	4	.026	1.70	1400.0	475.0	8600.	22.	195.	< 2.
9233	11	4420				5a	.005	.60	18.0	6.0	50.	< 2.	10.	< 2.
9234	12	4421				5b	.018	.25	26.0	8.5	160.	6.	22.	< 2.

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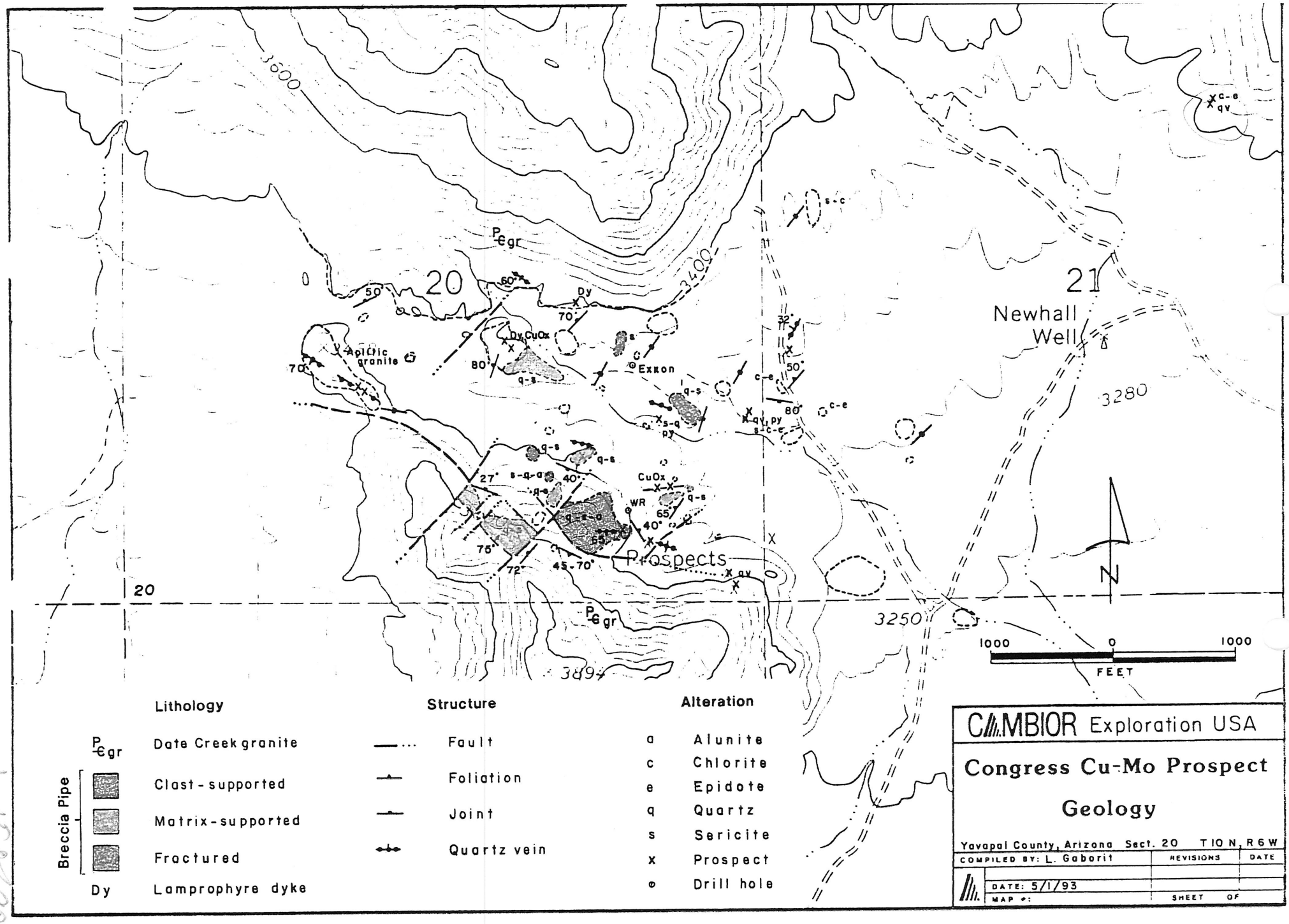
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Exxon
Prospects
WR
CuOx
Dy
Lithology
Date Creek granite
Breccia Pipe
Clast-supported
Matrix-supported
Fractured
Lamprophyre dyke
Structure
Fault
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a Alunite
c Chlorite
e Epidote
q Quartz
s Sericite
x Prospect
Drill hole
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CAMBIOR Exploration USA
Congress Cu-Mo Prospect
Geology
Yavapai County, Arizona Sect. 20 T10N, R6W
COMPILED BY: L. Gaborit
REVISIONS
DATE
DATE: 5/1/93
MAP #:
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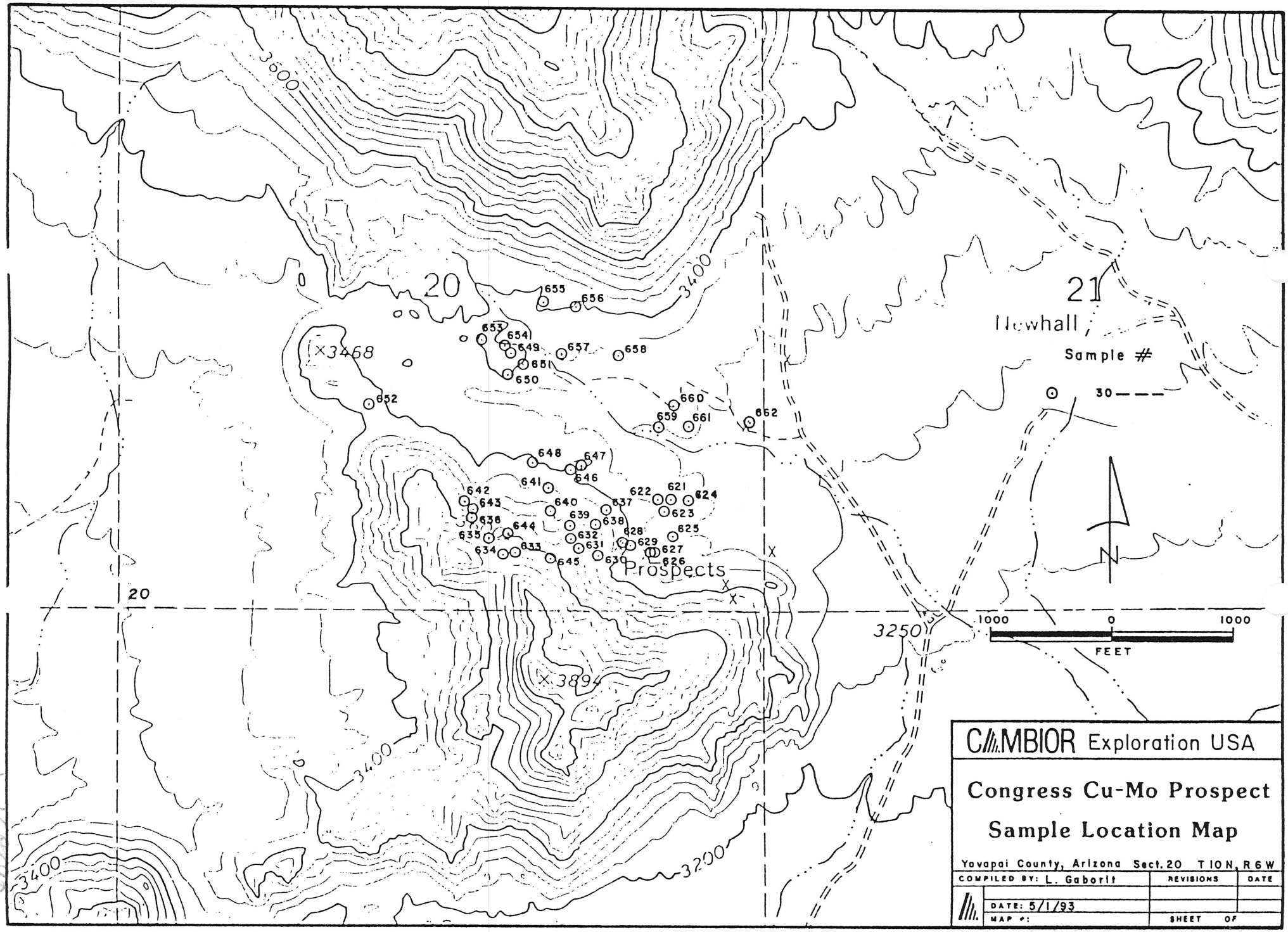
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Sample #
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3468
3894
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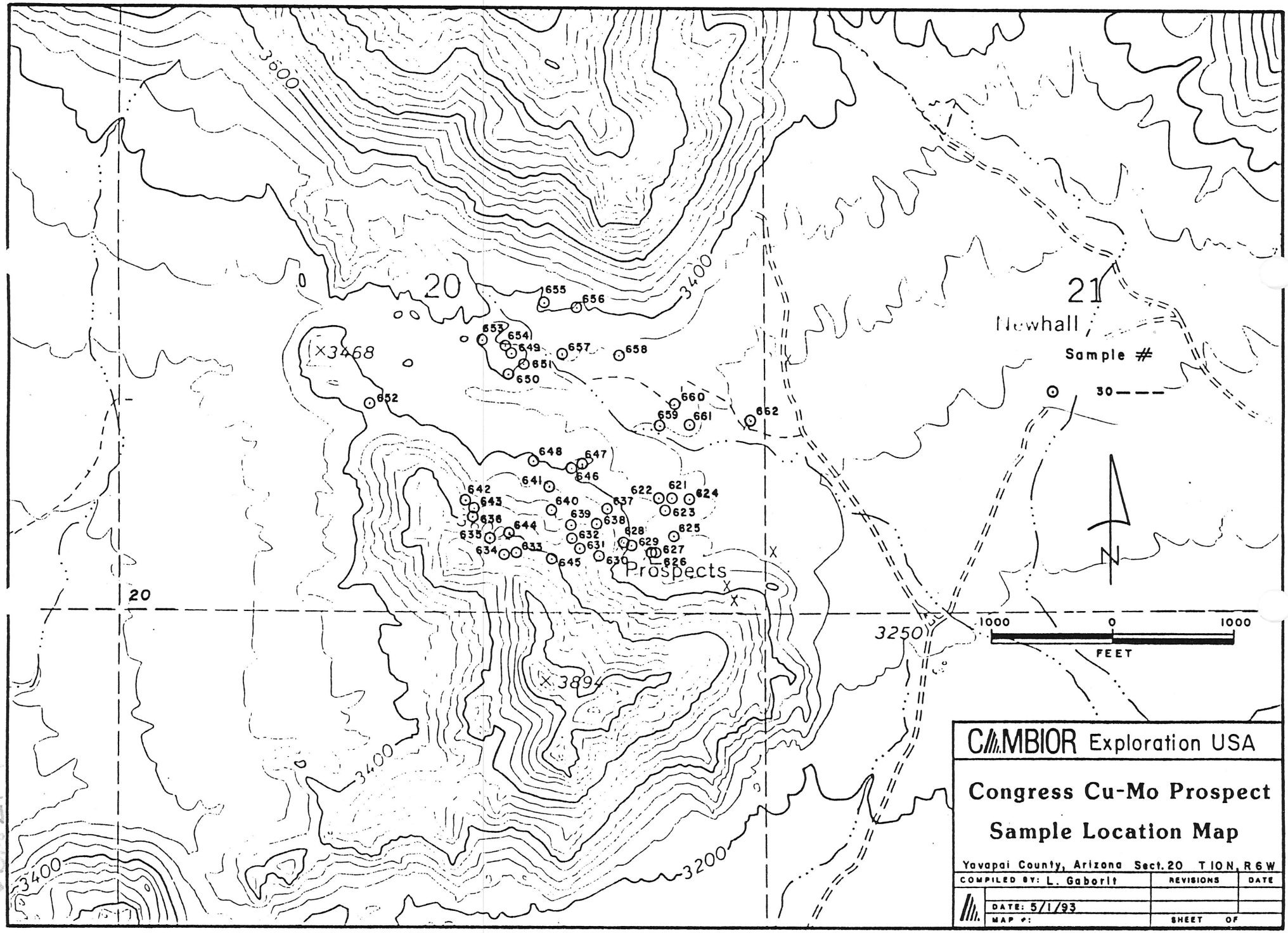
Prospects
1000
0
1000
FEET
CAMBIOR Exploration USA
Congress Cu-Mo Prospect
Sample Location Map
Yavapai County, Arizona Sect. 20 T 10 N, R 6 W
COMPILED BY: L. Gaborit
REVISIONS
DATE
DATE: 5/1/93
MAP #:
SHEET OF


20
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Newhall
Sample #
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Prospects
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FEET
N
CAMBIOR Exploration USA
Congress Cu-Mo Prospect
Sample Location Map
Yavapai County, Arizona Sect. 20 T 10 N, R 6 W
COMPILED BY: L. Gaborit
REVISIONS
DATE
DATE: 5/1/93
MAP #:
SHEET OF

Cambior

FIELD NOTES
CONGRESS PROPERTY

APRIL 20, 1993

30621 Prospect 5'x 5', exposing mod. to highly fractured f.g. intrusive, strong sericite altn, minor qtz (only several small q.v. observed). Btw 1-3% diss. CuOx (chrysocolla). 4' channel
Fract. N50°E/80°SW.
10' from prospect - outcrop of weathered porphyry granite. 25% feldspar phenocrysts up to 1 inch.

30622 Approx. 100' from 30621.
Small prospect, lining up in N70-80°E with above. Exposing both f.g. and c.g. granitic rock. Only f.g. facies contains diss. CuOx (chrysocolla). Coarse grained granite is slightly argillized. Loc. irregular contacts, possibly brecciated.

30623 South of these prospects.

- Porphy m.g. granite, feld. phenocrysts up to 1/2". <5% sericite, 1-2% q.v. fragments. Weak foliation N45°E. Fracturing 115° Az. Higher up on the hill, granite is more altered, m.g. texture is still recognized. Mainly qtz-ser. altn., loc. feld. are argillized (montmorillonite), <5% limonites, loc. dispersed hem.
  Fracturing N50°E.

- Contact not observed but outcrop of strongly foliated qtz-rich gneiss. <10% sericite.
  N35°E/65°SW.

30624 Very clearly at this loc. part of breccia pipe.
Fragments up to 4" of granitic and gneissic composition. Strong qtz altn, 10-15% sericite loc. up to 30%. 10-15% transported limonites and hematite.

30625 PreCambrian granite, m.g. wt <10% feld phenocrysts. Weak potassic altn. Minor dispersed hematite. (5% q.v. <1" trending 110°/90°).

30626 At prospect. Sample of oxidized PreCambrian granite, feldspars are slightly argillized, transported limonites and hematite, in contact with 5' wide q.v. trending 105° Az. On south side of vein altd qtz-montmorillonite granite. Also present q.v. sw <1" oriented 110°/90°

L 180790

cut by fractures filled with limonites trending 65°/90°.

30627 West side of fault. Gossan looking mafic rock(?). Contains abundant limonites (goethite), locally brecciated with q.v. fragments up to 1".

30628 100' from adit. Sample of breccia pipe. Difficult to distinguish fragments, qtz-ser. altn., loc. goethite and hematite and dispersed limonites.

30629 Adit. m-c.g. porphy PreCambrian granite, partly argillized oxidized foliation N30°W/40°NE. Several discontinuous q.v., loc. strong sericite altn., loc. dispersed hematite and limonites.

Above workings. Same structure as 30627, trending 110° Az. Q.v. <2" wide 90°/65° south.

30630 Outcrop of breccia pipe, m-c.g. granite, strong qtz-sericite altn, fragments ranging from 1" to 12". Some fragments are Yavapai schist, tr. alunite along some fragments, weak FeOx, loc. goethite-jarosite.

30631 Sample of silicified rims of eroded fragments. Main altn. is qtz, minor sericite, tr. alunite along fragments. FeOx coating fractures.

30632 Clast supp breccia, eroded fragments with remaining silicified rims. Fragments are subrounded to subangular, loc. jarosite and hematite (rare). Frequent alunite along fragments. Weak phyllic altn., mainly qtz with 1-15% sericite (loc. up to 50%). Fragments of Yavapai observed but mainly m.g. granite.

- Fault contact observed (?) 115°/67°S.
  Qtz veins striking ~110°.
  Fracturing N42°E/72°NW.

30633 Matrix supp. breccia, <20% clasts up to several ft. mainly of m.g. granitic composition, strong qtz altn, moderate sericite (5-30%), loc. limonites.
- 115°/50°N foliation.

30634 Matrix supp. breccia, strong qtz altn, sericite varying from 5-25%, loc. relict hematite (associated with qtz veining).
- Very sharp contact with fresh PreCambrian granite, no slickenlines observed. Fault contact ~130° Az dipping 70-80°S(?).

30635 Matrix supp. breccia, <20% fragments generally <1 ft.; strong qtz altn, minor sericite (<20%), dispersed limonites and hematite.

L 190/90

30636 Same as above. General feeling, breccia pipe plunging 50°NE-E.

30637 Clast supp. breccia, fragments up to several feet in size; strong sericite altn, loc. silicified rims (qtz-ser), loc. dispersed limonites.

30638 Clast supp. breccia, fragments are generally small <6" of granitic schist composition; qtz-sericite altn, very little limonites. Rims of fragments are more silicified.

30639 Clast supp. breccia, fragments up to several ft. in size, qtz-sericite altn, relict limonites, goethite, and jarosite. At one loc. possibly chalcopyrite boxwork, moderate bleaching.

30640 PreCambrian granite, fractured, limonite-hematite stained, <5% q.v. sw; minor qtz-sericite altn.
- right next to this outcrop clast supp. breccia.

30641 Grab of sericite-qtz altered granite, clast supported, loc. limonite, hematite; loc. alunite along fragments.

30642 Matrix supp. breccia, fragments of granitic composition, strong qtz altn, absence of sericite. Moderate limonites, relict jarosite, hematite, loc. argillized. Breccia is in contact with a weathered granite. Fracturing 110°/27°N.

30643 Matrix supp. breccia, strongly bleached. Weak limonites. <20% fragments generally <2 ft., subrounded to subangular. Weakly argillized, moderate qtz altn. Recognizable as a porphy. m.g. granite; loc. fragments of qtz veins <2" within breccia.

30644 Matrix supp. breccia; 50% fragments up to several feet in size. Main altn is qtz with minor argillization. Loc. limonites-hematite. Several fragments of Yavapai schist observed. Again some tilting is observed ~ 38° N-NE.

30645 Outcrop of breccia pipe cutting fresh PreCambrian granite. Matrix supp. with <20% fragments, generally subangular, <2 ft. Foliation developed striking 115° dipping 45-70 to the south(?). Loc. strong limonites, hematite and goethite (in the presence of q.v.). To the north becomes more clast-supported (>50%). Loc. sericite altn.

30646 Matrix supp. breccia with <20% fragments; strong sericite-qtz altn, strong bleaching, loc. limonites, goethite.
Aplite dike 115/40°S.

30647 Matrix supp. breccia, rare fragments observed.

L 200/90

Prospect exposing carbonate vein <1 ft. wide. Sampling wallrock, strong dispersed limonites (hematite, goethite, jarosite); qtz-sericite altn, tr. remnant Su.
Vein striking 100-110° Az.

General outcrop area - PreCambrian granite, e.g. phase, unaltered with q.v. sw.

30648 Clast supp. breccia approx. 80% fragments, generally <10" both of f.g. and c.g. facies. Very little limonites, bleached, strong qtz altn with <20% sericite.

30649 Prospect exposing lamprophyre dyke within PreCambrian granite. Dump sample. High-grade. 3-4% malachite. Imp. age of these dyke? Tertiary! age of mineralization?

30650 Matrix supp. breccia. <20% clasts, difficult to identify clearly, mainly of m.g. granite, bleached, qtz-sericite altn, rare limonites mainly dispersed.

30651 Matrix supp. breccia, approx. 50% fragments mainly subangular and <1 ft., bleached, qtz-argillized: loc. dispersed and relict limonites and hematite.
- Foliation N20°E/80°W.

30652 Aplite dike, strong fracturing 100° Az, slightly weathered. Loc. of prospect - q.v. with minor FeOx. Mining q.v. 5'-6' wide trending 120° Az dipping N70°S. Slight pinkish color to feld. with loc. epidote.

30653 Along road - hem. FeOx stained m.g. granite cut by q.v. sw, feld. slightly altered.

30654 Prospect exposing lamprophyre dykes. 5-6 ft. wide. Soaked with CuOx (mainly malachite) 3' channel sample.
Trend N75°E.

30655 Weathered PreCambrian granite, strong fracturing, feld. slightly altered. FeOx on fractures.

30656 Prospect 15' deep exposing lamprophyre dyke(?) strongly oxidized and fractured.
Location of Cong-7, 07-97-BG.

30657 Outcrop PreCambrian porphy, granite, mod. fracturing, weak oxidation.
Fract. N45°E. Dykes N25°E.

L 210/90

- Outcrop of fract. PreCambrian granite; where fract. leaving a silicified rim diff. to see fragments. Main altn is qtz, stained with limonites and hematite. Fract. pattern N45°E dipping 60-80°NW. At one loc. strong fract. at 120° Az. dipping steeply in both dir.

30658 Grab of fractured PreCambrian granite, possibly part of breccia pipe. Fract. filled with vuggy qtz veins and goethite; strong bleaching, <10% sericite. Trend of zone ~N45°E. On each side fresh weathered PreCambrian granite weakly fractured.

30659 Prospect. 10-20 ft. shaft filled H2O. exposing ser.-qtz ± Py altd granite. Unrecognizable texture, strongly bleached Loc. tr. Su., local chlorite altn(?).

30660 Bleached, qtz-sericite (<20%) altered granite. Moderate to strong fracturing, dispersed limonites (hem and goethite) brecciated qtz veins. Zone of deformation not very wide following a 110° Az trend parallel to veining direction.

30661 Strongly fract. qtz-sericite (<20%) altered granite loc. recognizable fragments up to 12", matrix supported strong fracturing N20°E; brecciated discontinuous q.v. dispersed limonite, hematite, jarosite.

30662 Prospect. Dump sample - white, oxidized q.v. containing ~ 1% pyrite (partly oxidized), wallrock is an f.g. foliated granite containing sericite, chlorite, and epidote. Approx. 10% sericite at contact with q.v.

- Foliation N40°E/50°NW chlorite-epidote.
  Fracturing 100°/80°S.

Ser. 100' along road - Prospect.
Q.v. with aplite dikes(?) N30°E/32°NW.
(.036 / 1 ft.)

L 220/90

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CERTIFICATE OF ANALYSIS
iPL 93D3002

Cambior Exploration USA, Inc.
Out: May 03, 1993 Project: 304
In : Apr 30, 1993 Shipper: Laurence Gaborit
PO#: Shipment: -- ID=C013500
Msg: Au for 30627 & 30662 Only
Msg:

42 Samples

	42= Rock	0= Soil	0= Core	0=RC Ct	0= Pulp	0=Other
Raw Storage:	03Mon/Dis	--	--	--	--	--
Pulp Storage:	12Mon/Dis	--	--	--	--	--

[iPL=39:0503:11:47:221]
Mon=Month Dis=Discard
Rtn=Return Arc=Archive

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EN	RT	CC	IN	FX
1	2	2	2	1
DL	3D	5D	BT	BL
0	0	0	1	0

Analytical Summary

##	Code	Method	Title	Limit Low	Limit High	Units	Description	Element	##
01	312PFA/AAS		Au	5	10000	ppb	Au Fire Assay/AAS finish	Gold	01
02	721P	ICP	Ag	0.1	100	ppm	Ag ICP	Silver	02
03	711P	ICP	Cu	1	20000	ppm	Cu ICP	Copper	03
04	714P	ICP	Pb	2	20000	ppm	Pb ICP	Lead	04
05	730P	ICP	Zn	1	20000	ppm	Zn ICP	Zinc	05
06	703P	ICP	As	5	10000	ppm	As ICP 5 ppm	Arsenic	06
07	702P	ICP	Sb	5	1000	ppm	Sb ICP	Antimony	07
08	732P	ICP	Hg	3	10000	ppm	Hg ICP	Mercury	08
09	717P	ICP	Mo	1	1000	ppm	Mo ICP	Molydenum	09
10	747P	ICP	Tl	10	1000	ppm	Tl ICP 10 ppm	Thallium	10
11	705P	ICP	Bi	2	10000	ppm	Bi ICP	Bismuth	11
12	707P	ICP	Cd	0.1	10000	ppm	Cd ICP	Cadmium	12
13	710P	ICP	Co	1	10000	ppm	Co ICP	Cobalt	13
14	718P	ICP	Ni	1	10000	ppm	Ni ICP	Nickel	14
15	704P	ICP	Ba	2	10000	ppm	Ba ICP	Barium	15
16	727P	ICP	W	5	1000	ppm	W ICP	Tungsten	16
17	709P	ICP	Cr	1	10000	ppm	Cr ICP	Chromium	17
18	729P	ICP	V	2	10000	ppm	V ICP	Vanadium	18
19	716P	ICP	Mn	1	10000	ppm	Mn ICP	Manganese	19
20	713P	ICP	La	2	10000	ppm	La ICP	Lanthanum	20
21	723P	ICP	Sr	1	10000	ppm	Sr ICP	Strontium	21
22	731P	ICP	Zr	1	10000	ppm	Zr ICP	Zirconium	22
23	736P	ICP	Sc	1	10000	ppm	Sc ICP	Scandium	23
24	726P	ICP	Ti	0.01	1.00	%	Ti ICP	Titanium	24
25	701P	ICP	Al	0.01	5.00	%	Al ICP	Aluminum	25
26	708P	ICP	Ca	0.01	10.00	%	Ca ICP	Calcium	26
27	712P	ICP	Fe	0.01	5.00	%	Fe ICP	Iron	27
28	715P	ICP	Mg	0.01	10.00	%	Mg ICP	Magnesium	28
29	720P	ICP	K	0.01	10.00	%	K ICP	Potassium	29
30	722P	ICP	Na	0.01	5.00	%	Na ICP	Sodium	30
31	719P	ICP	P	0.01	5.00	%	P ICP	Phosphorus	31

L 23890

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CERTIFICATE OF ANALYSIS
iPL 93D3002

Report: 93D3002 R Cambior Exploration USA, Inc. Project: 304

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm
30621	Rock Chip	--	1.4	6424	156	153	436	237	<3	1	<10	<2	2.0	6	10	438	<5
30622	Rock Chip	--	1.0	1644	39	165	216	195	<3	1	<10	<2	1.7	2	4	289	<5
30623	Rock Chip	--	0.1	80	7	8	12	9	<3	1	<10	<2	<0.1	1	4	291	<5
30624	Rock Chip	--	<0.1	21	14	5	<5	6	<3	32	<10	<2	<0.1	1	4	125	<5
30625	Rock Chip	--	1.4	67	14	31	<5	10	<3	2	<10	<2	<0.1	1	4	57	<5
30626	Rock Chip	--	<0.1	20	2	31	<5	<5	<3	15	<10	<2	0.2	4	6	71	<5
30627	Rock Chip	<5	<0.1	208	<2	285	29	<5	<3	32	<10	<2	5.5	36	34	231	<5
628	Rock Chip	--	<0.1	105	<2	13	7	<5	<3	21	<10	<2	1.0	3	8	144	<5
30629	Rock Chip	--	<0.1	34	3	11	<5	6	<3	4	<10	<2	<0.1	1	5	201	<5
30630	Rock Chip	--	<0.1	18	2	2	<5	<5	<3	5	<10	<2	<0.1	1	4	97	<5
30631	Rock Chip	--	<0.1	5	5	2	<5	5	<3	6	<10	<2	<0.1	1	3	197	<5
30632	Rock Chip	--	0.1	7	31	4	<5	<5	<3	54	<10	<2	<0.1	1	2	162	<5
30633	Rock Chip	--	<0.1	4	3	4	<5	<5	<3	4	<10	<2	0.1	2	2	202	<5
30634	Rock Chip	--	<0.1	5	5	5	<5	<5	<3	3	<10	<2	<0.1	2	4	367	<5
30635	Rock Chip	--	<0.1	5	2	7	<5	<5	<3	5	<10	<2	0.2	3	6	190	<5
30636	Rock Chip	--	<0.1	44	4	17	12	11	<3	5	<10	<2	<0.1	3	4	138	<5
30637	Rock Chip	--	<0.1	65	22	9	10	5	<3	28	<10	<2	0.1	1	4	236	<5
30638	Rock Chip	--	<0.1	7	<2	3	<5	<5	<3	6	<10	<2	<0.1	1	3	105	<5
30639	Rock Chip	--	<0.1	29	3	2	<5	<5	<3	42	<10	<2	0.3	1	5	83	<5
30640	Rock Chip	--	0.1	11	10	4	9	5	<3	6	<10	<2	<0.1	1	2	100	<5
30641	Rock Chip	--	<0.1	6	8	23	<5	<5	<3	14	<10	<2	0.2	1	4	179	<5
30642	Rock Chip	--	<0.1	2	<2	9	<5	<5	<3	4	<10	<2	<0.1	1	4	117	<5
30643	Rock Chip	--	<0.1	3	5	12	<5	<5	<3	3	<10	<2	<0.1	1	4	150	<5
30644	Rock Chip	--	0.1	16	<2	6	<5	<5	<3	3	<10	<2	<0.1	1	3	189	<5
30645	Rock Chip	--	<0.1	9	13	19	8	<5	<3	26	<10	<2	0.7	6	6	170	<5
646	Rock Chip	--	<0.1	23	5	8	<5	<5	<3	12	<10	<2	0.1	2	5	232	<5
30647	Rock Chip	--	<0.1	22	18	8	7	<5	<3	96	<10	<2	0.2	4	5	77	<5
30648	Rock Chip	--	<0.1	12	5	12	7	<5	<3	5	<10	<2	<0.1	<1	3	118	<5
30649	Rock Chip	--	3.4	8755	<2	4958	15	<5	7	1	<10	<2	33.9	31	70	275	<5
30650	Rock Chip	--	<0.1	47	7	28	7	6	<3	10	<10	<2	0.3	2	4	203	<5
30651	Rock Chip	--	<0.1	76	7	37	11	6	<3	7	<10	<2	<0.1	1	3	127	<5
30652	Rock Chip	--	<0.1	8	8	13	<5	<5	<3	<1	<10	<2	<0.1	1	3	52	<5
30653	Rock Chip	--	<0.1	57	371	18	14	10	<3	5	<10	<2	0.4	2	7	143	<5
30654	Rock Chip	--	<0.1	<1	6	325	<5	<5	<3	4	<10	<2	1.3	27	61	513	<5
30655	Rock Chip	--	<0.1	15	9	33	<5	<5	<3	1	<10	<2	<0.1	7	7	144	<5
30656	Rock Chip	--	0.1	160	50	171	36	30	<3	6	<10	<2	1.0	30	40	254	<5
30657	Rock Chip	--	<0.1	20	<2	27	<5	<5	<3	1	<10	<2	<0.1	2	4	78	<5
30658	Rock Chip	--	<0.1	39	3	24	12	11	<3	26	<10	<2	0.3	3	5	102	<5
30659	Rock Chip	--	<0.1	11	<2	9	5	<5	<3	1	<10	<2	<0.1	2	4	154	<5
Minimum Detection		5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5
Maximum Detection		10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	10000	1000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ReC=ReCheck ins=Insufficient Sample m=Est/1000 %=Est % Max=No Est

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CERTIFICATI OF ANALYSIS
iPL 93D3002

Report: 93D3002 R Cambior Exploration USA, Inc. Project: 304

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
30621	83	9	393	22	20	1	1	<0.01	0.78	0.65	1.67	0.16	0.46	0.02	0.08
30622	61	5	479	13	26	2	<1	<0.01	0.69	2.54	0.76	0.18	0.42	0.02	0.04
30623	145	3	51	38	26	1	<1	<0.01	0.48	0.10	1.43	0.12	0.49	0.03	0.04
30624	154	6	59	19	21	1	<1	<0.01	0.30	0.09	1.41	0.06	0.29	0.07	0.03
30625	139	7	100	34	8	1	1	<0.01	0.49	0.14	0.83	0.06	0.25	0.05	0.04
30626	113	5	79	13	12	<1	1	<0.01	0.51	0.06	3.61	0.05	0.26	0.03	0.03
30627	23	54	2205	4	15	6	<1	0.01	0.62	0.12	27%	0.08	0.06	0.01	0.11
528	143	8	94	34	20	1	<1	<0.01	0.54	0.08	5.7%	0.04	0.25	0.02	0.06
,629	124	3	26	25	45	1	1	<0.01	0.65	2.54	1.75	0.16	0.32	0.01	0.03
30630	135	6	41	29	21	1	<1	<0.01	0.34	0.07	1.64	0.04	0.34	0.03	0.04
30631	108	4	73	46	27	1	1	<0.01	0.37	0.07	0.95	0.04	0.29	0.04	0.06
30632	103	6	74	26	44	2	<1	<0.01	0.35	0.07	1.87	0.02	0.45	0.03	0.04
30633	111	5	149	36	40	1	1	<0.01	0.37	0.05	2.52	0.03	0.53	0.03	0.05
30634	135	4	145	19	14	1	<1	<0.01	0.41	0.14	1.31	0.07	0.28	0.02	0.05
30635	133	5	230	12	13	1	<1	<0.01	0.45	0.24	2.34	0.12	0.29	0.01	0.05
30636	142	5	187	22	15	1	<1	<0.01	0.46	0.12	1.84	0.04	0.30	0.02	0.08
30637	77	7	44	55	17	1	1	<0.01	0.56	0.08	3.26	0.06	0.41	0.04	0.06
30638	130	5	56	25	9	1	1	<0.01	0.40	0.13	0.91	0.06	0.32	0.02	0.04
30639	130	13	23	31	17	2	2	<0.01	0.40	0.15	3.43	0.06	0.35	0.04	0.08
30640	109	2	56	9	8	1	<1	<0.01	0.30	0.04	1.06	0.01	0.19	0.02	0.03
30641	122	4	70	31	68	1	1	<0.01	0.38	0.10	2.12	0.07	0.53	0.03	0.06
30642	131	6	36	21	14	1	<1	<0.01	0.35	0.04	2.53	0.02	0.36	0.02	0.04
30643	117	4	67	38	24	1	1	<0.01	0.45	0.07	2.75	0.08	0.76	0.03	0.07
30644	124	4	110	30	28	<1	1	<0.01	0.52	0.10	1.70	0.06	0.30	0.01	0.07
30645	139	10	125	11	15	1	1	<0.01	0.60	0.18	5.00	0.07	0.29	0.01	0.09
646	127	6	63	37	17	1	1	<0.01	0.51	0.09	2.32	0.07	0.35	0.03	0.06
0647	177	5	85	20	16	1	<1	<0.01	0.43	0.03	3.36	0.02	0.29	0.02	0.02
30648	101	3	35	27	11	1	1	<0.01	0.42	0.06	0.83	0.04	0.31	0.04	0.03
30649	384	131	4408	11	38	12	30	0.04	3.68	5.95	8.6%	4.33	0.44	0.02	0.14
30650	115	7	140	25	37	1	4	<0.01	0.38	0.15	2.03	0.15	0.53	0.03	0.08
30651	103	4	77	24	27	1	1	<0.01	0.47	0.07	1.46	0.05	0.37	0.04	0.03
30652	107	5	60	18	6	3	1	<0.01	0.32	0.07	0.73	0.05	0.18	0.05	0.02
30653	153	14	60	20	21	1	1	<0.01	0.54	0.08	4.61	0.06	0.41	0.15	0.03
30654	250	39	2881	6	91	3	27	0.02	1.02	9.46	4.35	1.26	0.77	0.01	0.12
30655	92	12	317	79	18	1	3	<0.01	0.66	0.28	1.60	0.10	0.32	0.04	0.10
30656	42	52	1790	17	32	4	13	<0.01	0.94	0.79	5.2%	0.18	0.44	0.03	0.21
30657	108	7	160	23	7	1	1	<0.01	0.55	0.16	0.96	0.07	0.29	0.04	0.06
30658	102	8	86	30	22	1	1	<0.01	0.46	0.11	3.14	0.06	0.27	0.02	0.05
30659	130	5	61	36	26	1	<1	<0.01	0.51	0.42	0.63	0.10	0.34	0.02	0.03
Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Vancouver, B.C.
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Fax (604) 879-7898

CERTIFICATE OF ANALYSIS
iPL 93D3002

Report: 93D3002 R Cambior Exploration USA, Inc. Project: 304 Section 1 of 2

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm
30660	Rock Chip	--	<0.1	13	5	3	6	11	<3	48	<10	<2	0.2	1	3	156	<5
30661	Rock Chip	--	<0.1	14	11	3	<5	<5	<3	29	<10	<2	<0.1	1	4	241	<5
30662	Rock Chip	400	0.6	49	24	12	12	11	<3	7	<10	<2	0.1	4	6	60	<5
Minimum Detection		5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5
Maximum Detection		10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	10000	1000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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CERTIFICATE OF ANALYSIS
iPL 93D3002

Report: 93D3002 R Cambior Exploration USA, Inc. Project: 304

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
30660	128	6	44	24	19	1	1	<0.01	0.30	0.10	2.50	0.03	0.38	0.03	0.03
30661	112	5	52	40	44	1	1	<0.01	0.37	0.11	1.48	0.09	0.33	0.05	0.04
30662	210	8	73	<2	4	<1	<1	<0.01	0.10	0.09	2.29	0.01	0.05	0.01	<0.01
Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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CERTIFICATE OF ANALYSIS
iPL 93D3002

Report: 93D3002 R Cambior Exploration USA, Inc. Project: 304

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm
30660	Rock Chip	--	<0.1	13	5	3	6	11	<3	48	<10	<2	0.2	1	3	156	<5
30661	Rock Chip	--	<0.1	14	11	3	<5	<5	<3	29	<10	<2	<0.1	1	4	241	<5
30662	Rock Chip	400	0.6	49	24	12	12	11	<3	7	<10	<2	0.1	4	6	60	<5
Minimum Detection		5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5
Maximum Detection		10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	10000	1000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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CERTIFICATE OF ANALYSIS
iPL 93D3002

Report: 93D3002 R Cambior Exploration USA, Inc. Project: 304

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
30621	83	9	393	22	20	1	1	<0.01	0.78	0.65	1.67	0.16	0.46	0.02	0.08
30622	61	5	479	13	26	2	<1	<0.01	0.69	2.54	0.76	0.18	0.42	0.02	0.04
30623	145	3	51	38	26	1	<1	<0.01	0.48	0.10	1.43	0.12	0.49	0.03	0.04
30624	154	6	59	19	21	1	<1	<0.01	0.30	0.09	1.41	0.06	0.29	0.07	0.03
30625	139	7	100	34	8	1	1	<0.01	0.49	0.14	0.83	0.06	0.25	0.05	0.04
30626	113	5	79	13	12	<1	1	<0.01	0.51	0.06	3.61	0.05	0.26	0.03	0.03
30627	23	54	2205	4	15	6	<1	0.01	0.62	0.12	27%	0.08	0.06	0.01	0.11
528	143	8	94	34	20	1	<1	<0.01	0.54	0.08	5.7%	0.04	0.25	0.02	0.06
,629	124	3	26	25	45	1	1	<0.01	0.65	2.54	1.75	0.16	0.32	0.01	0.03
30630	135	6	41	29	21	1	<1	<0.01	0.34	0.07	1.64	0.04	0.34	0.03	0.04
30631	108	4	73	46	27	1	1	<0.01	0.37	0.07	0.95	0.04	0.29	0.04	0.06
30632	103	6	74	26	44	2	<1	<0.01	0.35	0.07	1.87	0.02	0.45	0.03	0.04
30633	111	5	149	36	40	1	1	<0.01	0.37	0.05	2.52	0.03	0.53	0.03	0.05
30634	135	4	145	19	14	1	<1	<0.01	0.41	0.14	1.31	0.07	0.28	0.02	0.05
30635	133	5	230	12	13	1	<1	<0.01	0.45	0.24	2.34	0.12	0.29	0.01	0.05
30636	142	5	187	22	15	1	<1	<0.01	0.46	0.12	1.84	0.04	0.30	0.02	0.08
30637	77	7	44	55	17	1	1	<0.01	0.56	0.08	3.26	0.06	0.41	0.04	0.06
30638	130	5	56	25	9	1	1	<0.01	0.40	0.13	0.91	0.06	0.32	0.02	0.04
30639	130	13	23	31	17	2	2	<0.01	0.40	0.15	3.43	0.06	0.35	0.04	0.08
30640	109	2	56	9	8	1	<1	<0.01	0.30	0.04	1.06	0.01	0.19	0.02	0.03
30641	122	4	70	31	68	1	1	<0.01	0.38	0.10	2.12	0.07	0.53	0.03	0.06
30642	131	6	36	21	14	1	<1	<0.01	0.35	0.04	2.53	0.02	0.36	0.02	0.04
30643	117	4	67	38	24	1	1	<0.01	0.45	0.07	2.75	0.08	0.76	0.03	0.07
30644	124	4	110	30	28	<1	1	<0.01	0.52	0.10	1.70	0.06	0.30	0.01	0.07
30645	139	10	125	11	15	1	1	<0.01	0.60	0.18	5.00	0.07	0.29	0.01	0.09
646	127	6	63	37	17	1	1	<0.01	0.51	0.09	2.32	0.07	0.35	0.03	0.06
0647	177	5	85	20	16	1	<1	<0.01	0.43	0.03	3.36	0.02	0.29	0.02	0.02
30648	101	3	35	27	11	1	1	<0.01	0.42	0.06	0.83	0.04	0.31	0.04	0.03
30649	384	131	4408	11	38	12	30	0.04	3.68	5.95	8.6%	4.33	0.44	0.02	0.14
30650	115	7	140	25	37	1	4	<0.01	0.38	0.15	2.03	0.15	0.53	0.03	0.08
30651	103	4	77	24	27	1	1	<0.01	0.47	0.07	1.46	0.05	0.37	0.04	0.03
30652	107	5	60	18	6	3	1	<0.01	0.32	0.07	0.73	0.05	0.18	0.05	0.02
30653	153	14	60	20	21	1	1	<0.01	0.54	0.08	4.61	0.06	0.41	0.15	0.03
30654	250	39	2881	6	91	3	27	0.02	1.02	9.46	4.35	1.26	0.77	0.01	0.12
30655	92	12	317	79	18	1	3	<0.01	0.66	0.28	1.60	0.10	0.32	0.04	0.10
30656	42	52	1790	17	32	4	13	<0.01	0.94	0.79	5.2%	0.18	0.44	0.03	0.21
30657	108	7	160	23	7	1	1	<0.01	0.55	0.16	0.96	0.07	0.29	0.04	0.06
30658	102	8	86	30	22	1	1	<0.01	0.46	0.11	3.14	0.06	0.27	0.02	0.05
30659	130	5	61	36	26	1	<1	<0.01	0.51	0.42	0.63	0.10	0.34	0.02	0.03
Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ReC=ReCheck ins=Insufficient Sample m=Est/1000 %=Est % Max=No Est

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REPORT ON THE CONGRESS Cu-Mo PROSPECT
YAVAPAI COUNTY, ARIZONA

FOR

KENNECOTT CORPORATION

b y

Joe Wilkins

SUMMARY

The Congress Cu-Mo prospect is a Cu-Mo target in and adjacent to breccia pipes cutting a Precambrian intrusion. The pipes are exposed and partially exposed over a NE trend which is 2200 feet long and about 1000 feet wide, yielding a tonnage potential of 176,000 tons/vertical foot. The altered area is closed-off to the SW but is open to the NE and additional pipes may exist under shallow cover.

Regionally, the area was rotated about 45 degrees during the Tertiary. If the pipes are pre-Tertiary they will also be rotated and this rotation may show up as the NE trend to the pipe cluster. If the pipes are Tertiary and related to the listric faulting, their potential for a Cu-Mo deposit is greatly diminished. The general trend of the mineralized joints and fractures(NE and WNW) is not typical of Laramide-age deposits which are dominated by ENE and NW sets.

Alteration is intense but the alteration zoning is weak and highly telescoped. The propylitic zone occurs in a thin(100's feet) rim adjacent to the pipes and does not pervasively alter the the surrounding country rock. Veins related to and marginal to the pipe system are not present. Intrusive rocks younger than Precambrian(other than several lampophyre dikes) are not present on or adjacent to the prospect.

RECOMMENDATIONS

The Congress Cu-Mo prospect does not provide a viable porphyry copper target in the exposed area. The best hope for additional tonnage would be on the pediment to the NE and to the east. An IP-resistivity survey in these areas might prove fruitful.

INTRODUCTION

At the request of Linus T. Keating, of Kennecott Corporation, the Congress Cu-Mo prospect, Yavapai County, Arizona was evaluated. The property was submitted by Thorny Rogers. Field work consisted of a preliminary examination on March 17, accompanied by Thorny Rogers, and

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on March 18, 1992. Total field work, including travel time from Tucson, was 2.5 days.

LAND and LOCATION

The property consists of 18 unpatented mining claims located near Congress, Arizona in the Date Creek Mountains. The claims are located in section 20, T.10 N., R. 6 W. in the Congress Mining District. The land is administered by the Bureau of Land Management. Elevations in the prospect area range from 3200 to 4000 feet.

PAST PRODUCTION/PREVIOUS WORK

The Congress prospect was staked in 1959 by Ike Kusisto, then by W.D. Roper in 1974 or 1975. Roper drilled 2 or 3 diamond drill holes(all about 200 feet deep) on the property. One hole intercepted a zone of intense sericite-altered breccia containing disseminated chalcopyrite, tetrahedrite and sulfosalt minerals. The core was not assayed. In late 1976 Exxon acquired the property from Roper and completed IP surveys and one 1800 feet deep core hole. The property was subsequently dropped by Exxon and re-staked in 1991 by Thorny Rogers.

GEOLOGY

Regionally the prospect is situated in fault-sliced segments of the Date Creek granite, a Precambrian-aged, batholithic intrusion(Figure 1). All units exposed in the area southwest of the Congress Breakaway Zone are cut and rotated about 45 degrees by NW-striking listric normal faults.

LITHOLOGY

The country rock consists of the Date Creek granite which is coarse-grained porphyritic, occasionally foliated, and has a fairly extensive aplitic phase(Figure 2). The Date Creek intrudes units of the Yavapai group and contains numerous inclusions and pendants of the schist.

The granite is cut by breccia zones with pipe-like configurations and by Tertiary-aged lamprophyre dikes.

STRUCTURE

The lithologies are blocked-out by NW-striking listric normal faults and by NE-striking tear faults. Both fault sets appear to cut and offset the breccia pipes. A mineralized, NW-striking fault on the SW margin of the breccia pipe dips to the NE and truncates the pipe. A NE-striking fault, commonly with horizontal slickensides and mineralized, also cuts and offsets segments of the breccia pipe(Figure 2).

Two sets of mineralized joints and veins occur with one set at N35E (dipping 70 SE to 70 NW) and a strong set at N70W(dipping 50-80 N). Both mineralized sets are parallel to the regional structural grain and the quartz in the WNW set is commonly sheared. The low-angle quartz vein at sample #1 is

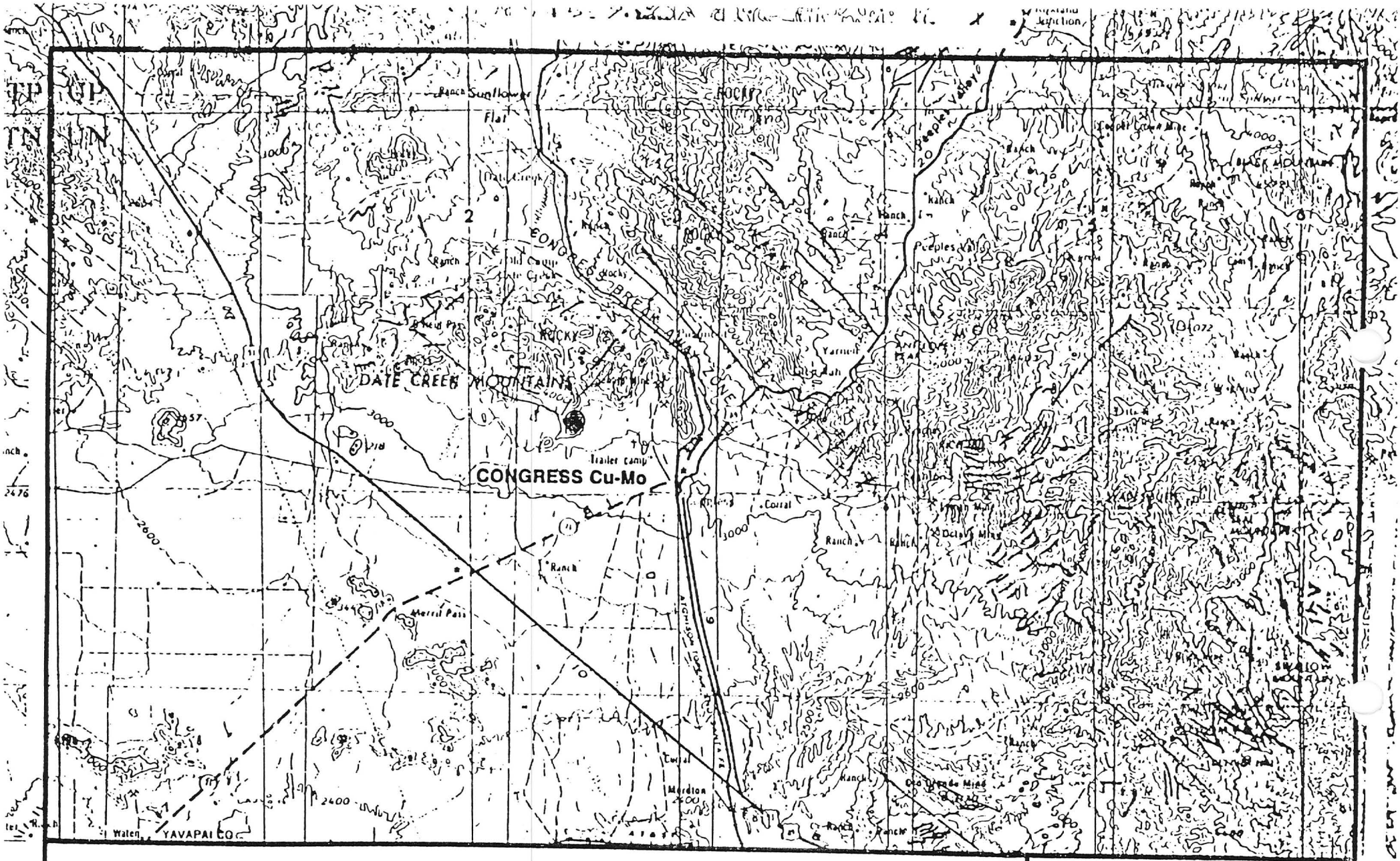

Figure 1. Location map of Congress Cu-Mo Prospect, showing regional geological setting.

Joe Wilkins 4/92

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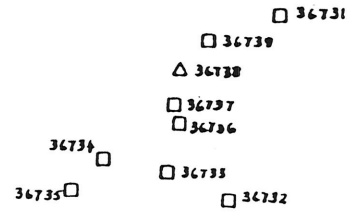

0 1000 2000 feet

SAMPLE LOCATION MAP
CONGRESS Cu-Mo
YAVAPAI COUNTY, ARIZONA

Joe Wilkins, March ,1992

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EXPLANATION

LITHOLOGY

- Qal — Alluvium, talus
- Round clast Bx
- Angular clast Bx
- Stockwork
- Aplitic granite
- Granite

STRUCTURE

- Fault
- Joint
- Vein

ALTERATION

- Quartz
- Sericite
- Chlorite
- Alunite

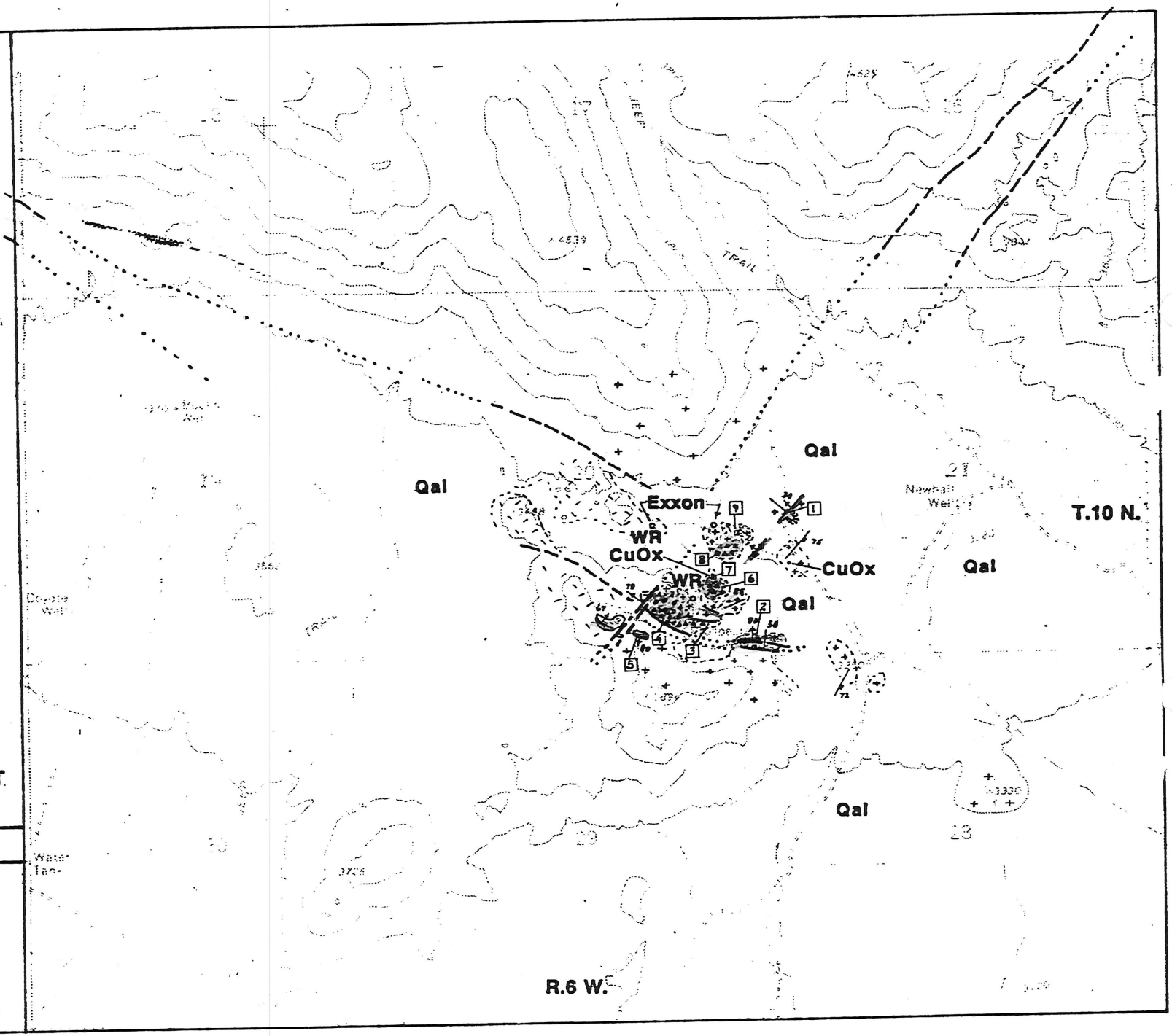
- CuOx — Copper oxides
- Exxon — Exxon DH
- WR — Roper DH

0 2000 FEET

SCALE

CONGRESS Cu-Mo
YAVAPAI CO, ARIZONA

Joe Wilkins, 3/92



interpreted (from its overall appearance, and similarity to the Congress veins) as a Precambrian-aged vein.

The breccia pipes are circular to elliptical in outline and consist of an outer shell of stockwork veinlets which grade into angular clasts which display moderate rotation. The inner shell consists of strongly rounded to subangular clasts, matrix-supported to clast- supported hydrothermal breccias. Clasts are dominantly granite but numerous clasts of Yavapai schist are present.

The 4 breccia zones shown on figure 2 are probably fault segments of a single pipe. However the area near sample 6 and 7 and near samples 8 and 9, contain angular breccia clasts altered by intense phyllic alteration and may represent additional pipes.

The overall trend of the pipe cluster is about N45E.

ALTERATION-MINERALIZATION

Alteration is zoned, with an outer margin of weak propylitic, which grades into intense, greisen-like phyllic. The propylitic zone is characterized by weak sericite on fractures associated with chlorite and/or epidote. The granite has a distinct punky appearance and is a ugly brown color. The contact with the phyllic zone is gradational over a narrow zone, and marked by an increasing volume of sericite.

In the phyllic zone, the rock is replaced by quartz and sericite with pyrite. In places within the pipe, the rock textures are completely obliterated. The rounded clasts are often rimmed by silica.

Alunite is present as thin films along fractures in the rounded clast breccia and in a second zone outside the pipe(at sample 6 on figure 2).

Tourmaline, as black schorl, was noted as fracture-controlled crystals in the granite south of the pipes.

The rocks in the pipe are highly leached and contain varying amounts of iron oxides; hematite, limonite, goethite, and jarosite. Boxworks indicate that pyrite was the principle sulfide mineral. No copper minerals were noted in the pipes but CuOx minerals(chyrsocolla-tenorite and malachite) are present at several areas NE of the main pipe. In one core sample from a Roper hole, which I observed in 1976, chalcopyrite, tetrahedrite, and an unidentified sulfosalt was present.

GEOCHEMISTRY

A total of 9 rock chip samples from prospect pits, dumps, were cut during the examination. The samples were assayed by Chemex Labs for Cu, Mo, Pb, Zn, Au, Ag, As, Sb, and Hg. Previous sampling show strongly anomalous Mo and weakly anomalous Cu, Au, As, Sb, and U. The As and Sb were probably derived from tetrahedrite.

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TARGET EVALUATION

The target is Cu-Mo mineralization in and adjacent to the breccia pipes. the pipes are exposed to partially exposed over a NE trend which is 2200 feet long and about 1000 feet wide, yielding a tonnage potential of 176,000 tons/vertical foot. The altered area is closed-off to the SW but is open to the NE and additional pipes may exist under shallow cover.

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Joe Wilkins
Exploration consultant
Tucson, Arizona
March 30, 1992

Joe Wilkins

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KENNECOTT

GEOCHEMICAL SAMPLING

PROJECT: Congress Cu-Mo
GEOLOGIST: Joe Wilkins
DATE: 3-18-92

QUAD: O'Neill Pass, Az 7½"
COUNTY: Yavapai
STATE: Az.

~ 0.069 oz/t

CH-channel
C-chip
R-rock
F-float
T-talus
D-dump
RC-rotary chip
HG-high grade
S-soil
St-stream sed

Sample Number	Location Sec. T. R.	Rock Description Comments	Type	Au ppb	Ag ppm	Hg ppb	As	Sb	Cu	Pb	Zn ppm	Mo	Ba
731C	21 T10N R.6W.	1 Ft, N35E, 36°NW Congress-type Au Vein	CH	2370	1.0	100	10	5.4	69	910	44	21	50
32C	20	8' qtz vein, WNW 80°N, Cuts PЄ granite	C	<5	<.2	30	2	.6	35	16	13	<1	380
33C	20	10' gossan at bx pipe Margin.	C			80	1	.6	145	2	124	23	[illegible]
34C	20	25' Siliceous rinds in rounded Chert bx	C			50	1	1.4	15	85	14	138	[illegible]
35C	20	2' chip, up Contact bx pipe, bndd qtz-FeOx	C			40	2	.8	6	6	28	37	720
36C	20	25' bxpipe, ang to rndd clasts in Ser Matrix	C		<.2	50	16	13	31	12	12	3	900
37C	20	5' Sheared bx pipe margin, CuOx	C		2.0	1000	550	360	3450	96	150	<1	1040
38C	20	Greisen, ~100% Sericite	D		<.2	110	4	3.4	28	<1	48	<1	600
739C	20 T10N R6W	12' q-s-py Flooded PЄ granite near Exxon D.H.	C	<5	<.2	60	4	3.4	27	2	18	33	180

EXPLANATION

LITHOLOGY

- Qal — Alluvium, talus
- Round clast Bx
- Angular clast Bx
- Stockwork
- Aplitic granite
- Granite

STRUCTURE

- Fault
- Joint
- Vein

ALTERATION

- Quartz
- Sericite
- Chlorite
- Alunite

- CuOx — Copper oxides
- Exxon — Exxon DH
- WR — Roper DH

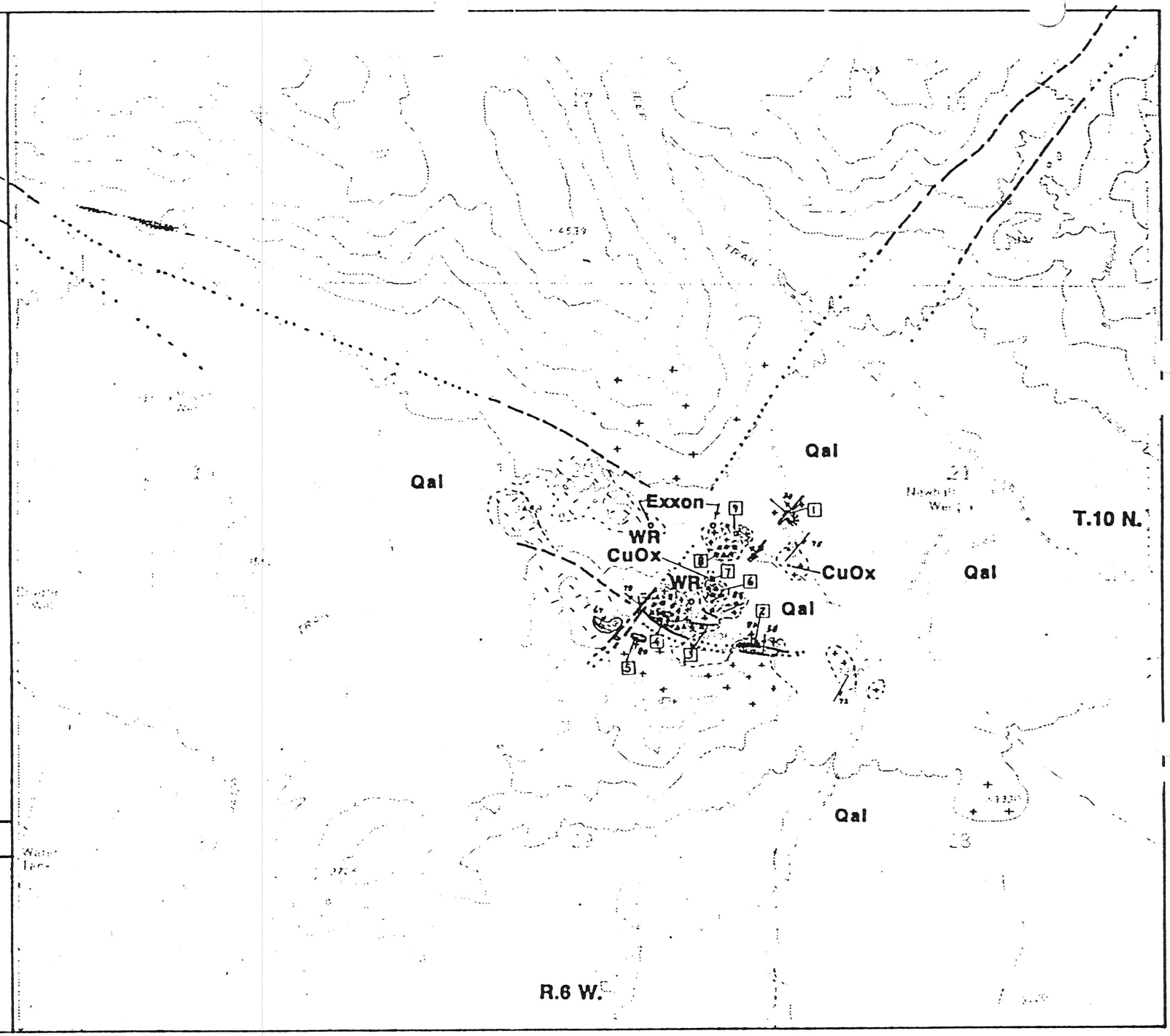
0 2000 FEET

SCALE

CONGRESS Cu-Mo
YAVAPAI CO, ARIZONA

Joe Wilkins

Joe Wilkins, 3/92



April 6, 1992

Mr. Thorney Rodgers
559 W. Tam-O-Shanter Dr.
Phoenix, AZ 85032

Re: Congress Cu Property, Yavapai County Arziona

Dear Thorney:

To confirm our telephone conversation, Noranda has decided not to pursue the Congress Property at this time. Someone from Noranda will evaluate your property near Phoenix in the near future.

Thank you for considering Noranda with your plans and if you should have any other oxide copper or gold properties that you feel would be of interest to Noranda, please feel free to send the information to Warren Rehn at the Reno office. I hope we have the opportunity to get together in the field in the near future.

Sincerely,

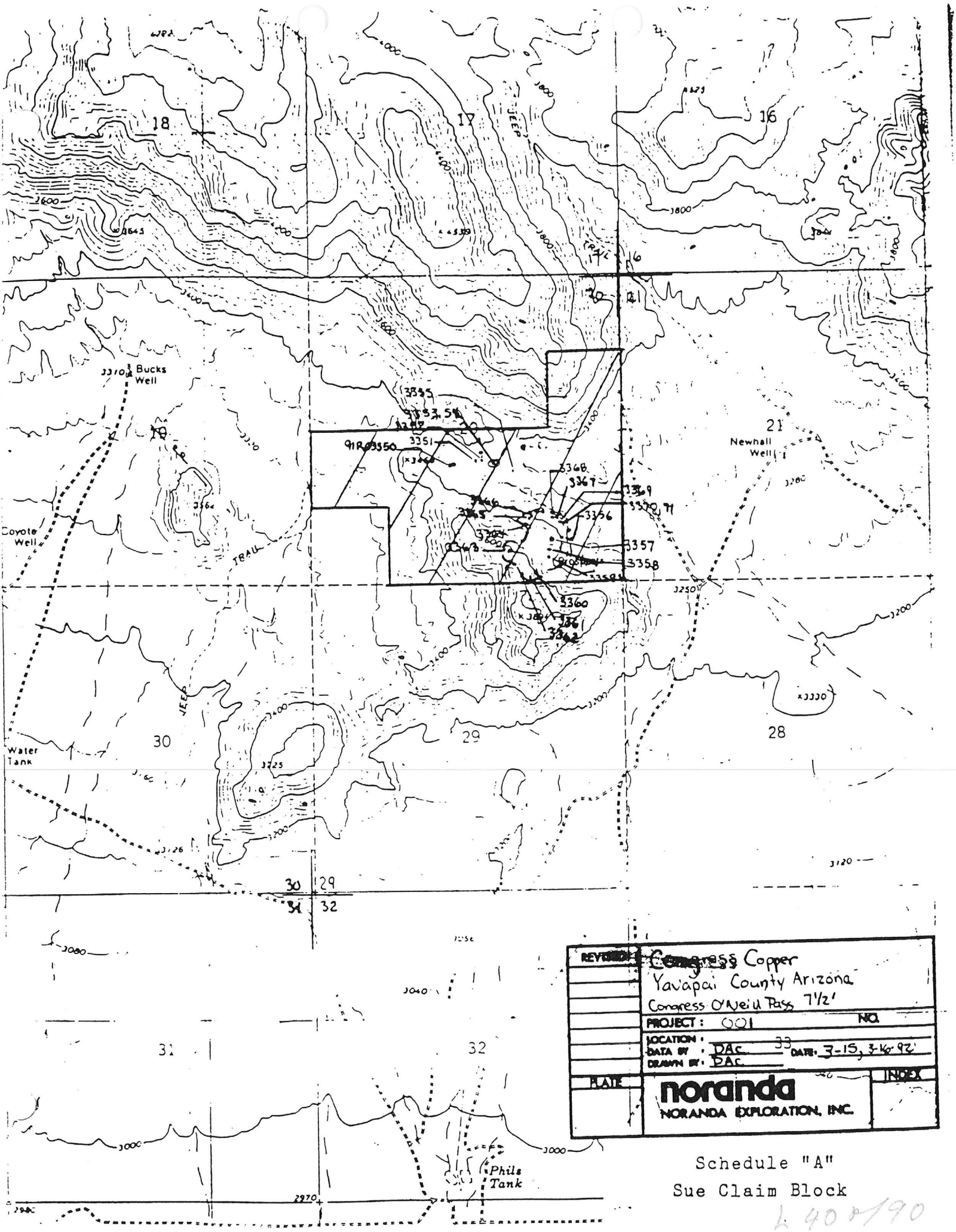
Dave A. Cockrum

Dave A. Cockrum

Project Geologist
Rocky Mountain District

K Curt Hogge 303-988-6456
Mike Darnell

L39 of 90



REVISIONS	Congress Copper Yavapai County Arizona Congress O'Neill Pass 7½' PROJECT: 001 NO. LOCATION: 33 DATA BY: DAC DATE: 3-15, 3-16-92 DRAWN BY: DAC	
PLATE	noranda NORANDA EXPLORATION, INC.	INDEX

Schedule "A"

Sue Claim Block

L 40 of 90

Property Congress Cu-Mo Co. Yavapai St. AZ

Page 1 of 2

Project # 301 Gen. Area Congress

NORANDA EXPLORATION, INC.
GEOCHEMICAL SAMPLES

Geologist DAC Dates 3-15-92

AMS Prescott Quad. Congress, O'Neill Pass 7½'

Sample #	ppb Au Au ppm	Sample Type Cu %	Location	Sample Description
911303350	—	.08		4' hr [illegible] adj to N5°W prop Alt Tr dike? [illegible]
				mod lim stained Pfan Tr dissem [illegible] in PV
911303351	—	—		O.C. chip select [illegible] stained Pfan phyllic Alt
				Pfan 1-3/foot [illegible] limonite ± Tr dissem [illegible]
				[illegible] chlorite [illegible] veins
3352	—	—		O.C. chip select Silic Pfan perv Qtz veinlets [illegible]
				limonite qtz veins 1-5/foot spotty. No usable [illegible]
				[illegible] Strong Alt is chloritization
3353	—	—		O.C. chip select phyllic Alt K-Tar spotty open space
				and breccia [illegible] qtz oxid sulfide veins
				-4/foot hairline lim. [illegible] veins
3354	—	—		Same as above increased lim staining and lim hairline
				veins
3355	120	.01		Small prospect pit select K-Tar dike? 1-2% dissem oxid
				py 1-3/foot [illegible] qtz veins phyllic spotty [illegible]
				prop Alt
3356	—	.01		O.C. chip select phyllic Alt K-T dike? N65E trend. Tr-1%
				dissem oxid pyrite, strong sericite Tr [illegible] and
				breccia filling [illegible] veins
3357	—	.02		O.C. chip Sedlect Breccia pipe phyllic Alt spotty
				white qtz matrix 1-5% Tr dissem oxid py. Pfan
				[illegible] with qtz clasts
3358	—	—		Strong MnO stained breccia pipe locally massive
				weak brecciation Tr-1% white qtz matrix. Tr-5%
				dissem oxid sulfides
3359	—	—		Breccia Pipe phyllic Alt Tr dissem oxid. py. Tr K-Tar
				matrix streaky silic as matrix and clasts perv.
3360	35	—		Breccia Pipe Phyllic Alt Pfan qtz veinlets [illegible]
				1-5% K-Tar [illegible] Alt Tr dissem oxid py.
				Tr [illegible]
3361	—	—		O.C. [illegible] Alt [illegible]
				K-Tar clasts, Tr-3% matrix Rockflour ± limonite
				local qtz veinclasts in K-Tar matrix 1-10% Tr dissem
				oxid py.

L410/90

Property Congress Cu Co. Yavapai St. AZ

Page 2 of 2

Project # 001 Gen. Area Congress

NORANDA EXPLORATION, INC.
GEOCHEMICAL SAMPLES

Geologist _____ Dates _____

AMS _____ Quad. _____

Sample #	ppb Au AuPpb	Sample Type Cu%	Location	Sample Description
91R03362	—	—		Breccia pipe at contact with Pzgn weak limonitic stained phyllic Alt quartz texture
3363	—	.01		Breccia pipe weak brec. phyllic Alt Pzgn clasts Tr-2% disseminated pyrite, Tr x-cutting veins at veins N35W
3364	—	—		Phyllic Alt Breccia pipe Pzgn clasts x-cutting N35W limonite oxid pyrite veins Tr disseminated py in Pzgn
3365	—	—		G.C. chip select Brown calcite vein? in Breccia pipe Phyllic Alt Pzgn clasts Tr disseminated py and brown [illegible]
3366	—	—		Mod lim stained, phyllic Alt Breccia pipe weak brecciation. Strong phyllic Alt, trace disseminated oxid. py.
3367	15	.45		Phyllic Alt Pz-Tgr? 1-3% malachite and chrysocolla blebs 1-3% limonite blebs 1 [illegible] select Prospect Pit
3368	~~—~~	.01		100' NW of prev Same as above Tr malachite-chrysocolla 2% lim after py. Float chip select
3369	—	.01		150' S 30E of 3367 same as 3368
3370	—	—		100' SE of prev. Same as above increased chrysocolla blebs and patches, strong phyllic Alt. Float select Pzgn pick
3371	—	—		100' SE of prev. phyllic Alt Pzgn breccia Tr-1% disseminated oxid pyrite

_____ date samples shipped _____ date results recieved _____ date recommendations

_____ lab _____ plotted on maps

L 420190

Cominco American
Resources Incorporated

July 27, 1992

Thorny Rogers
559 W. Tam-O-Shanter Dr.
Phoenix, AZ 85023

RE: Congress Cu-Mo Property
Yavapai Co., Az.

Dear Thorny:

We have finally been able to complete our review of the Sue Claims. I apologize for taking so long to get back to you. The property does have potential for a porphyry copper/gold occurrence, however, the potential size of a deposit would be too small for Cominco to consider at the present time.

I am enclosing copies of the assays and sample locations for your information. Thanks for giving Cominco the opportunity to examine the property. If you have any other prospects in the future don't hesitate to call.

Sincerely,

Bob

Robert U. Suda
Project Geologist

Ref. No. 91R098

831 East Glendale, Sparks, Nevada 89431 Tel. (702) 355-8787 Fax: (702) 355-8880 L 43 8/90

g, Inc.
Island Dr.
g 1, Unit A
rks, Nevada 89431
02 (359-9330)

BONDAR-CLEGG

As. s for D Congress Prospect

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R92-10500.0 (COMPLETE)

~~DATE PRINTED: 11-MAY-92~~
PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	As PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM
R2 324520		193.0	8675	27	449	12	1.8
R2 324521		162.0	14600	479	481	10	0.7
R2 324522		17.0	44	<2	6	2	<0.1
R2 324523		2.8	14	<2	7	2	<0.1
R2 324524		11.0	21	<2	8	2	<0.1

L 440190

g, Inc.
Island Dr.
g 1, Unit A
rks, Nevada 89431
02 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R92-10500.0 (COMPLETE)

~~DATE PRINTED: 11-MAY-92~~
PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	As PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM
324520		193.0	8675	27	449	12	1.8
Duplicate		190.0	8498	26	427	13	1.8

L 490/90

...g, Inc.
...sland Dr.
...g 1, Unit A
...rks, Nevada 89431
...02 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R92-10500.0 (COMPLETE)

DATE PRINTED: 11 MAY 92
PROJECT: NONE GIVEN

STANDARD NAME	ELEMENT UNITS	As PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM
GS89-2		309.0	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-
Mean Value		309.00	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		310.0	820	250	500	600	5.0
TRACE GEOCHEM STD		-	284	31	236	4	0.5
Number of Analyses		-	1	1	1	1	1
Mean Value		-	284.3	31.5	236.1	3.9	0.49
Standard Deviation		-	-	-	-	-	-
Accepted Value		28.0	290	33	255	4	0.5
ANALYTICAL BLANK		-	<1	<2	1	1	<0.1
Number of Analyses		-	1	1	1	1	1
Mean Value		-	0.5	1.0	1.0	1.0	0.05
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	1	1	1	1	0.1

L 50890

PART 2 OF 2

PRINTED: 01/15/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CONGRESS PORPHYRY COPPER

ALTERNATE NAMES:

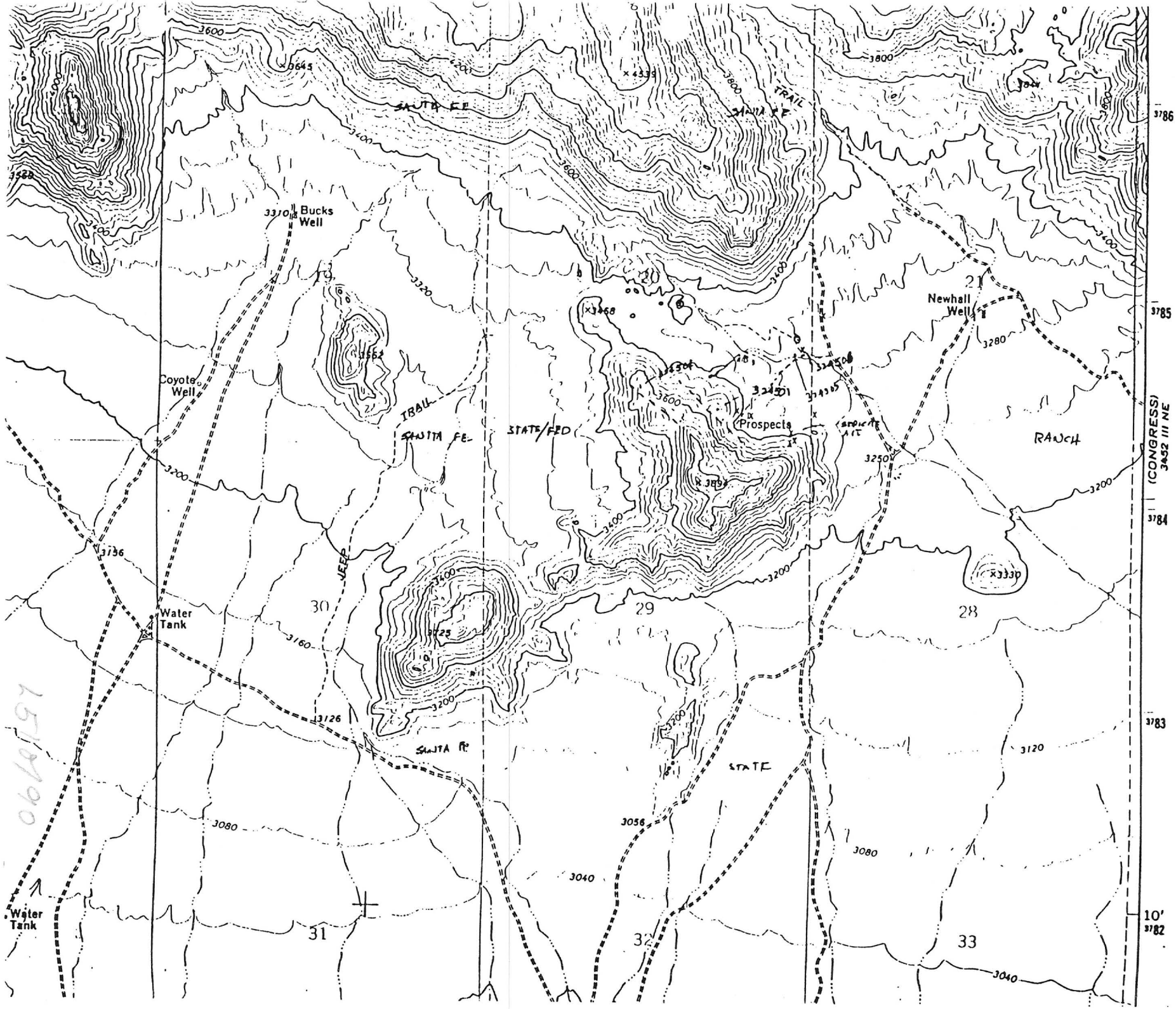
YAVAPAI COUNTY MILS NUMBER: 296

LOCATION: TOWNSHIP 10 N RANGE 6 W SECTION 20 QUARTER SE
LATITUDE: N 34DEG 11MIN 15SEC LONGITUDE: W 112DEG 53MIN 37SEC
TOPO MAP NAME: O'NEILL PASS - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
- COPPER OXIDE
- COPPER SULFIDE
- MOLYBDENUM
- SILVER

BIBLIOGRAPHY:
- USGS O'NEILL PASS QUAD
- ADMMR CONGRESS PORPHYRY COPPER FILE


Bucks Well
Coyote Well
Water Tank
Water Tank
Newhall Well
Prospects
RANCH
SANTA FE
TRAIL
SANTA FE
STATE/FED
JEEP
SANTA FE
STATE
(CONGRESS)
3452 III NE
3786
3785
3784
3783
10'
3782
30
29
28
31
32
33
20
21

HOMESTAKE
MINING COMPANY
EXPLORATION DIVISION
MAILING ADDRESS
155 GLENDALE, SUITE 18, SPARKS, NEVADA 89431
(702) 331-6980

March 25, 1992

Mr. Thorny Rogers
559 W. Tam-O-Shanter Dr.
Phoenix, Arizona 85023

358-5609

Dear Mr. Rogers:

I have visited your Congress Cu-Mo (Sue Claims) property in the Congress Mining District. At this time, we have no further interest in the property. The prospect contains very interesting alteration, but the geochemical results did not define areas of anomalous gold, copper, or molybdenum.

Thank you very much for submitting your property to Homestake. In the future, if you have other properties of merit please let us know.

Sincerely,

Sam E. Monteleone
Consulting Geologist, to
Homestake Mining Company

SEM/nlm

Enclosures

L 52 8/90

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: X92-10261.0 ********** PRELIMINARY **********

DATE PRINTED: 20-MAR-92
PROJECT: 2922 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU DUP OPT	AU OPT
P4 7878G			<0.001
P4 7888G			0.027
P4 7898G			0.019
P4 7908G			0.006
P4 7918G			<0.001
P4 7928G		<0.001	<0.001
P4 7938G			<0.001
P4 7948G			<0.001
P4 7958G			<0.001
P4 7968G			<0.001
P4 7978G			<0.001
P4 7988G			<0.001
P4 7998G			<0.001
P4 8008G			<0.001
P4 8018G			<0.001
P4 8028G			<0.001
P4 8038G			<0.001
P4 8048G		<0.001	<0.001
P4 8058G			<0.001
P4 8068G			<0.001
P4 8078G			<0.001
P4 8088G			<0.001
P4 8098G			<0.001
P4 8108G			<0.001
P4 8118G			<0.001
P4 8128G			<0.001
P4 8138G			<0.001
P4 8148G			0.014
P4 8158G		<0.001	<0.001
P4 8168G			<0.001
P4 8178G			<0.001
P4 8188G			<0.001
P4 8198G			<0.001
P4 8208G			<0.001
P4 8218G			<0.001
P4 8228G			<0.001
P4 8238G			<0.001
P4 8248G			<0.001
P4 8258G			<0.001
P4 [redacted]			[redacted]

SUE CLAIMS

L530/90

Report: 92C0093 R Homestake Mining Co. Project: 2922 15689#2R Page 1 of 4 Section 1 of 2

Sample	Name	Au	Type	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm	Ba ppm	Cr ppm
15689	0737 BG		Pulp	0.1	8	12	22	<5	<5	<3	2	<10	<2	<0.1	2	4	<5	138	14
15689	0738 BG	.027	Pulp	0.5	10	77	5	18	5	<3	10	<10	12	<0.1	4	8	<5	19	38
15689	0739 BG	.019	Pulp	<0.1	38	227	17	63	13	<3	47	<10	9	0.2	31	18	6	238	10
15689	0730 BG	.006	Pulp	0.8	56	398	20	<5	<5	<3	4	<10	<2	<0.1	3	4	<5	45	14
15689	0791 BG		Pulp	<0.1	14	9	4	<5	<5	<3	7	<10	<2	<0.1	1	2	<5	153	10
15689	0792 BG		Pulp	0.1	122	3	30	77	39	<3	17	<10	<2	<0.1	4	7	<5	100	7
15689	0793 BG		Pulp	0.1	50	4	6	17	6	<3	31	<10	<2	<0.1	1	1	<5	170	13
15689	0794 BG		Pulp	<0.1	361	19	180	12	23	<3	2	<10	<2	<0.1	27	28	<5	65	32
15689	0795 BG		Pulp	0.3	371	39	244	24	27	<3	4	<10	<2	0.3	19	31	<5	793	18
15689	0796 BG		Pulp	0.1	317	14	58	13	7	<3	2	<10	<2	<0.1	8	9	<5	127	14
15689	0797 BG		Pulp	0.2	27	63	172	<5	5	<3	5	<10	<2	0.5	13	24	<5	188	27
15689	0798 BG		Pulp	0.1	35	3	23	7	9	<3	12	<10	<2	<0.1	3	5	<5	120	14
15689	0799 BG		Pulp	<0.1	17	4	39	<5	<5	<3	3	<10	<2	<0.1	7	4	<5	293	8
15689	0800 BG		Pulp	<0.1	33	3	6	<5	<5	<3	5	<10	<2	<0.1	2	4	<5	77	16
15689	0801 BG		Pulp	<0.1	41	56	2	<5	<5	<3	5	<10	<2	<0.1	1	1	<5	226	10
15689	0802 BG		Pulp	0.1	10	11	1	<5	<5	<3	17	<10	<2	<0.1	1	4	<5	117	13
15689	0803 BG		Pulp	<0.1	11	5	1	<5	<5	<3	55	<10	<2	<0.1	1	1	<5	92	11
15689	0804 BG		Pulp	<0.1	5	4	2	<5	<5	<3	5	<10	<2	<0.1	1	3	<5	75	14
15689	0805 BG		Pulp	0.2	5	7	3	<5	<5	<3	2	<10	<2	<0.1	1	2	<5	152	10
15689	0806 BG		Pulp	0.1	10	42	21	<5	<5	<3	21	<10	<2	<0.1	9	5	<5	116	11
15689	0807 BG		Pulp	<0.1	28	<2	17	<5	<5	<3	3	<10	<2	<0.1	2	4	<5	31	15
15689	0808 BG		Pulp	<0.1	9	5	2	<5	<5	<3	1	<10	<2	<0.1	<1	1	<5	12	23
15689	0809 BG		Pulp	<0.1	28	<2	30	<5	<5	<3	8	<10	<2	<0.1	3	9	<5	73	7
15689	0810 BG		Pulp	<0.1	137	<2	148	7	<5	<3	17	<10	<2	1.3	13	18	<5	48	2
15689	0811 BG		Pulp	<0.1	17	12	31	<5	<5	<3	2	<10	<2	0.2	3	4	<5	57	4
15689	0812 BG		Pulp	0.1	49	24	19	<5	<5	<3	1	<10	<2	<0.1	2	1	<5	34	13
15689	0813 BG		Pulp	0.2	38	230	5	5	<5	<3	3	<10	29	<0.1	19	18	<5	60	13
15689	0314 BG	.014	Pulp	3.1	53	770	6	43	<5	<3	43	<10	119	1.5	168	169	<5	31	1
15689	0315 BG		Pulp	0.3	22	11	10	<5	<5	<3	22	<10	<2	<0.1	3	5	<5	204	12
15689	0316 BG		Pulp	0.1	142	44	42	24	19	<3	18	<10	<2	<0.1	7	7	<5	131	10
15689	0317 BG		Pulp	0.1	39	22	4	11	<5	<3	3	<10	<2	<0.1	-	4	<5	234	12
15689	0318 BG		Pulp	0.1	5	8	3	<5	<5	<3	5	<10	<2	<0.1	-	2	<5	154	13
15689	0319 BG		Pulp	0.1	37	19	80	7	<5	<3	7	<10	<2	<0.1	2	4	<5	171	14
15689	0320 BG		Pulp	<0.1	25	10	29	<5	<5	<3	23	<10	<2	<0.1	4	6	<5	105	10
15689	0321 BG		Pulp	0.1	12	10	2	<5	<5	<3	3	<10	<2	<0.1	<1	3	<5	14	32
15689	0322 BG		Pulp	<0.1	10	15	2	<5	<5	<3	1	<10	<2	<0.1	1	-	<5	30	30
15689	0823 BG		Pulp	<0.1	17	14	36	<5	<5	<3	3	<10	<2	<0.1	5	8	<5	25	19
15689	0824 BG		Pulp	<0.1	15	20	3	<5	<5	<3	<1	<10	<2	<0.1	1	<1	<5	13	13
15689	0825 BG		Pulp	0.1	46	49	37	<5	6	<3	2	<10	<2	<0.1	2	3	<5	46	16
Minimum Detection				0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5	2	1
Maximum Detection				100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	1000	10000	10000
Method				ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress ins = Insufficient Sample

Congress

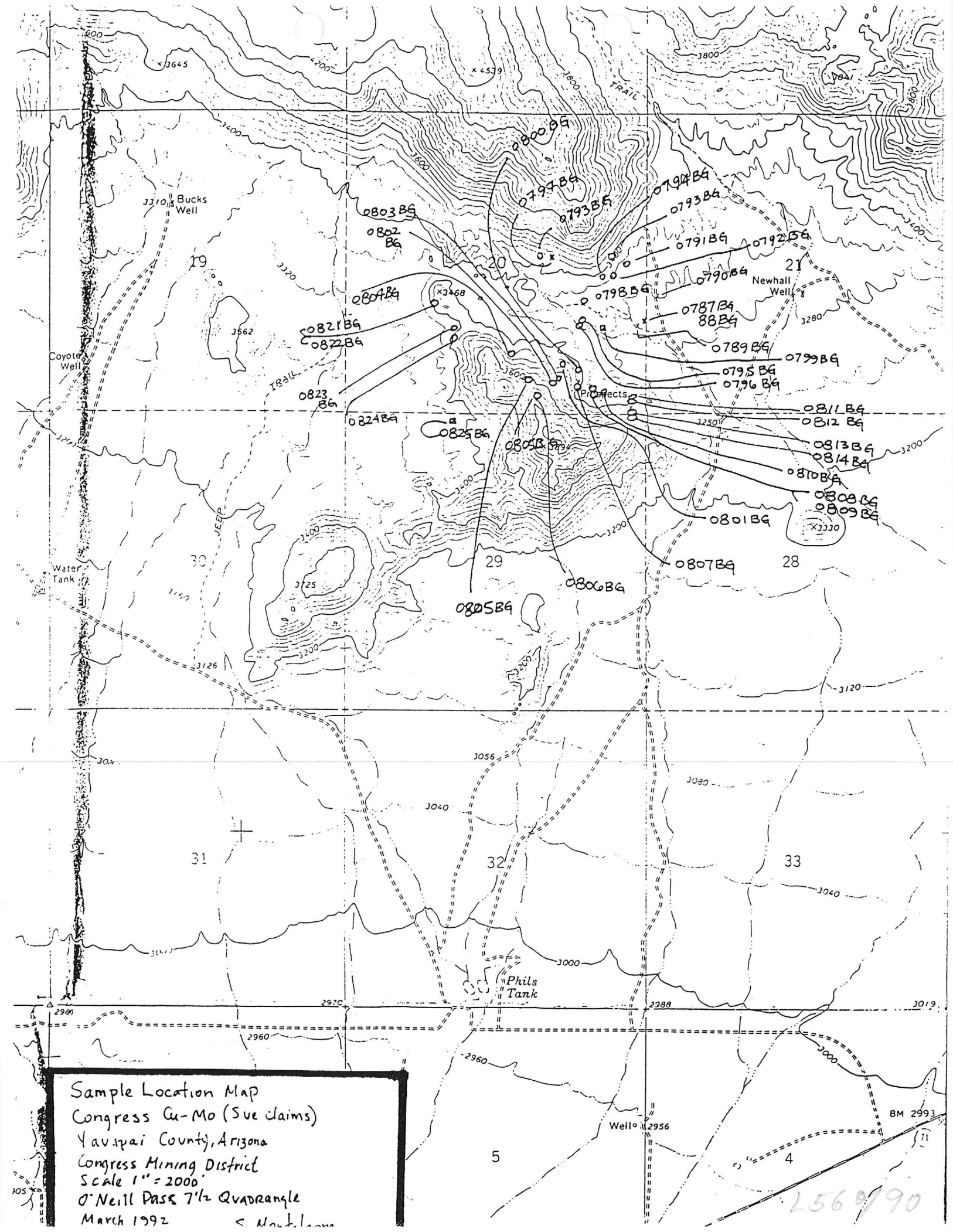
L54990

Report: 9200C98 R Homestake Mining Co. Project: 2922 '5689f2R Page 1 of 4 Section 2 of 2

Sample Name	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	Te ppm	Se ppm
15689 0787 BG	7	337	47	10	<1	1	<0.01	0.31	0.39	1.42	0.05	0.16	0.03	0.04	<10	<5
15689 0788 BG	13	157	2	3	<1	<1	<0.01	0.09	0.03	4.06	0.01	0.03	0.02	<0.01	<10	<5
15689 0789 BG	114	227	<2	14	<1	<1	<0.01	0.20	0.29	>5.00	0.06	0.04	0.01	0.02	<10	6
15689 0790 BG	23	263	35	9	<1	<1	<0.01	0.33	0.20	1.35	0.06	0.18	0.04	0.05	<10	<5
15689 0791 BG	5	65	45	46	<1	<1	<0.01	0.35	0.12	1.39	0.04	0.22	0.02	0.03	<10	<5
15689 0792 BG	8	56	50	227	2	1	<0.01	0.35	0.10	>5.00	0.08	0.51	0.09	0.13	<10	11
15689 0793 BG	3	62	20	30	<1	<1	<0.01	0.28	0.11	2.43	0.06	0.30	0.04	0.04	<10	<5
15689 0794 BG	56	1601	12	97	3	14	0.03	1.37	4.69	>5.00	1.97	0.54	0.03	0.20	<10	<5
15689 0795 BG	46	2641	13	95	3	10	0.01	0.70	>10.00	>5.00	0.31	0.38	0.01	0.12	<10	<5
15689 0796 BG	22	557	69	15	<1	4	0.02	0.74	1.10	2.65	0.26	0.40	0.03	0.13	<10	<5
15689 0797 BG	19	1527	27	25	4	7	<0.01	0.46	1.15	2.86	0.11	0.24	0.02	0.10	<10	<5
15689 0798 BG	8	38	43	90	<1	<1	<0.01	0.30	0.08	4.46	0.04	0.24	0.02	0.08	<10	<5
15689 0799 BG	4	1020	27	23	2	1	<0.01	0.41	2.23	1.93	0.09	0.26	0.02	0.04	<10	<5
15689 0800 BG	2	72	37	23	<1	<1	<0.01	0.35	1.09	2.22	0.05	0.24	0.02	0.04	<10	<5
15689 0801 BG	2	24	30	18	<1	<1	<0.01	0.35	0.08	2.22	0.04	0.33	0.02	0.02	<10	<5
15689 0802 BG	4	61	45	14	1	<1	<0.01	0.26	0.04	2.50	0.01	0.19	0.02	0.03	<10	<5
15689 0803 BG	6	48	36	18	1	<1	<0.01	0.23	0.02	2.21	0.01	0.32	0.03	0.03	<10	<5
15689 0804 BG	3	43	20	25	1	<1	0.01	0.29	0.21	2.26	0.01	0.27	0.02	0.05	<10	<5
15689 0805 BG	2	106	20	23	<1	<1	0.01	0.22	0.14	2.90	0.03	0.45	0.01	0.05	<10	<5
15689 0806 BG	8	174	15	12	1	<1	<0.01	0.40	0.06	>5.00	0.03	0.23	0.01	0.07	<10	5
15689 0807 BG	2	38	19	10	<1	<1	<0.01	0.34	0.14	4.00	0.06	0.20	0.02	0.03	<10	<5
15689 0808 BG	<2	27	10	2	<1	<1	<0.01	0.12	0.01	0.48	0.01	0.05	0.01	0.01	<10	<5
15689 0809 BG	5	78	29	35	<1	1	<0.01	0.41	0.09	>5.00	0.07	0.26	0.03	0.08	<10	<5
15689 0810 BG	21	447	4	15	<1	<1	0.01	0.46	0.12	>5.00	0.07	0.12	0.02	0.08	<10	7
15689 0811 BG	19	535	50	79	1	1	0.01	1.08	5.73	2.06	0.46	0.16	0.02	0.04	<10	<5
15689 0812 BG	5	138	67	14	1	1	<0.01	0.31	1.05	0.30	0.08	0.11	0.02	0.03	<10	<5
15689 0813 BG	9	191	10	15	1	<1	<0.01	0.37	1.82	2.19	0.06	0.15	0.01	0.02	17	<5
15689 0814 BG	82	1004	2	16	1	<1	<0.01	0.12	0.07	>5.00	0.05	0.03	0.01	<0.01	52	13
15689 0815 BG	3	79	37	25	<1	<1	<0.01	0.26	0.04	3.46	0.02	0.25	0.03	0.07	<10	<5
15689 0816 BG	13	112	33	35	1	1	<0.01	0.41	0.09	>5.00	0.09	0.33	0.06	0.06	<10	5
15689 0817 BG	2	74	13	15	<1	<1	<0.01	0.24	0.03	1.85	0.01	0.19	0.03	0.02	<10	<5
15689 0818 BG	3	72	22	42	1	<1	<0.01	0.25	0.03	2.47	0.03	0.36	0.02	0.05	<10	<5
15689 0819 BG	3	55	38	15	1	1	<0.01	0.32	0.06	1.86	0.04	0.26	0.04	0.04	<10	<5
15689 0820 BG	5	123	17	11	<1	<1	<0.01	0.37	0.04	>5.00	0.02	0.19	0.02	0.08	<10	<5
15689 0821 BG	<2	42	16	2	<1	<1	<0.01	0.12	0.02	0.50	0.01	0.06	0.02	0.01	<10	<5
15689 0822 BG	2	109	6	3	<1	<1	<0.01	0.14	0.07	0.42	0.01	0.10	0.01	0.01	<10	<5
15689 0823 BG	12	329	25	32	1	2	0.04	0.68	0.44	1.60	0.26	0.11	0.05	0.04	<10	<5
15689 0824 BG	<2	48	3	3	<1	<1	<0.01	0.18	0.03	0.40	0.01	0.12	0.03	<0.01	<10	<5
15689 0825 BG	6	182	24	8	<1	1	<0.01	0.30	0.22	1.24	0.04	0.12	0.03	0.02	<10	<5
Minimum Detection	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10	5
Maximum Detection	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00	10000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress Ins = Insufficient Sample

157190



Sample Location Map
Congress Cu-Mo (Sue claims)
Yavapai County, Arizona
Congress Mining District
Scale 1" = 2000'
O'Neill Pass 7'1/2 Quadrangle
March 1992 < Montgomery

2569790

SAMPLE DESCRIPTION LOG

PROJECT: Congress Cu-Mo(Sue Claims)
COUNTY : Yavapai
STATE : Arizona

GOLD VALUES IN OZ/TON
ALL OTHER VALUES IN PPM

SAMPLE NO.	DESCRIPTION	AU	AG	AS	SB	MO
0787 BG	OCS/Chloritized qtz mon wk sericite-hem along frac N50°W	-0.001	0.1	-5	-5	2
0788 BG	OCS/Grab N60°W qtz vn large ½" lim/py, wk ser, tr K-spar,tr hem	0.027	0.5	18	5	10
0789 BG	OCS/Grab qtz-py vn-py to lim-goe,	0.019	-0.1	63	13	47
0790 BG	UG/2' vert grab qtz vn in qtz mon, crushed, tr FeOx, chlor, ser	0.006	0.8	-5	-5	4
0791 BG	Float/Leache qtz mon, goe -hem, mon ser, tr K-spar	-0.001	-0.1	-5	-5	7
792 BG	OCS/Grab qtz mon, f.g., mod lim/py, blchd, K-spar bx pipe?, along N30°W flt	-0.001	0.1	77	39	17
0793 BG	OCS/FeOx stnd, ser qtz mon, bx pipe?,K-spar to clay	-0.001	0.1	14	6	31
0794 BG	Float/ Intermediate dike qtz-py stwk, blchd, part. oxidized	-0.001	-0.1	12	21	2
0795 BG	OCS/Grab baked diabase dike,calcite+siderite, tr lim/py	-0.001	0.3	24	27	4
0796 BG	OCS/Grab qtz mon @ contact w/dia dike, biotite+goe, tr lim/py	-0.001	0.1	13	7	2
0797 BG	Dump/Grab CuOx stnd qtz mon, lim/py @ contact w/ ox diabase dike	-0.001	0.2	-5	5	5

L570190

SAMPLE NO.	DESCRIPTION	AU	AG	AS	SB	MO
0798 BG	SCS/Grab qtz-lim-K-spar vns in qtz mon-open-space, terminated qtz xls	-0.001	0.1	7	9	12
0799 BG	OCS/Grab, mod-stgly arg qtz mon, good alt	-0.001	-0.1	-5	-5	3
0800 BG	OCS/Grab stgly arg qtz mon, some crushed qtz ox py vns, mod clay	-0.001	-0.1	-5	-5	5
0801 BG	OCS/Grab arg qtz mon wk-mod jar-hem, bx clasts	-0.001	-0.1	-5	-5	5
0802 BG	OCS/Grab hem-jar-ser qtz mon, near contact w/ fresh rx,rndd clasts, arg	-0.001	0.1	-5	-5	17
0803 BG	OCS/Same as 0802, less FeOx	-0.001	-0.1	-5	-5	55
0804 BG	OCS/wk'ly FeOx stnd qtz mon, stg N75°W struct	-0.001	-0.1	-5	-5	5
0805 BG	OCS/Grab same as 0804	-0.001	0.2	-5	-5	2
0806 BG	OCS/Grab qtz mon, good alt,FeOx in frac, same zone as 0804-05	-0.001	0.1	-5	-5	21
0807 BG	UG/Grab adit(lived in) alt qtz mon, mod FeOx mon clay-sheared?	-0.001	-0.1	-5	-5	3
0808 BG	OCS/Grab N40°W qtz vn +/- 5', tr lim	-0.001	-0.1	-5	-5	1
0809 BG	OCS/same structure as 0808-semi gossanous qtz mon, mod-stg arg	-0.001	-0.1	-5	-5	8
0810 BG	OCS/Grab gossan, finely sheared qtz mon	-0.001	-0.1	7	-5	17
0811 BG	OCS/Grab sheared qtz mon tr FeOx	-0.001	-0.1	-5	-5	2
0812 BG	Pit/10' Channel, sheared qtz mon(E-W),sheeted qtz vnlts to ½" tr-wk FeOx	-0.001	0.1	-5	-5	1

L580190

SAMPLE NO.	DESCRIPTION	AU	AG	AS	SB	MO
0813 BG	Pit/Grab sheared-clayey qtz mon, tr FeOx	-0.001	0.2	5	-5	3
0814 BG	Float/2 pieces, massive sulfide, py core, ox rims	0.014	3.1	13	-5	43
0815 BG	OCS/Grab alt qtz mon, same zone as 0801, bx'd	-0.001	0.3	-5	-5	22
0816 BG	OCS/qtz mon, good alt, bx'd, narrow zone, mod FeOx	-0.001	0.1	24	19	18
0817 BG	OCS/Grab wk'ly alt qtz mon, wk arg,FeOx, part of 0801 zone ?	-0.001	0.1	11	-5	3
0818 BG	OCS/Grab multi-lithic bx mod FeOx, mod arg qtz mon similar to 0801-03	-0.001	0.1	-5	-5	5
0819 BG	OCS/Grab multi-lithic bx wk arg, wk FeOx	-0.001	0.1	7	-5	7
0820 BG	OCS/Grab ferruginous-sil zone along NW flt near multi-lithic zone	-0.001	-0.1	-5	-5	23
0821 BG	OCS/Grab NW trending qtz vn, tr black chlorite tr FeOx	-0.001	0.1	-5	-5	3
0822 BG	OCS/Grab qtz fldd(stwk) aplite dike?, blk chlor vnlts,greasy feel	-0.001	-0.1	-5	-5	1
0823 BG	Pit/Grab qtz mon, chlor-epidote, some qtz vnlts	-0.001	-0.1	-5	-5	3
0824 BG	OCS/Grab pegmatite dike	-0.001	-0.1	-5	-5	-1
0825 BG	Dump/Grab qtz fldd FeOx stnd qtz mon,N75°E flt	-0.001	0.1	-5	6	2

L 590190

Legend

(> 50 ppm) Mo Cu (> 100 ppm)
(> 5 ppm) As Sb (> 10 ppm)
(> 50 ppm) Pb Hg (> 1 ppm)

(1) BHP samples

Breccia Features (w/ FeOx staining)

Mg-Sericite Alteration w/ dis CuOx

Unaltered PC granite gneiss

Diabase w/ CuOx

Quartz-carbonate veins w/ FeOx & pyr sep

Congress Cu-Mo Porphyry

L 600/90

CMSI

CHEMICAL & MINERALOGICAL SERVICES • 445 WEST 2700 SOUTH • SALT LAKE CITY, UTAH 84115 • (801) 485-0711

Sample #	Au ppb	Ag PPM	As PPM	Sb PPM	Hg ppb	Cu PPM	Pb PPM	Zn PPM	Mo PPM
G000331 (1)	6	< .1	7.5	14.4	110	122.6	7.6	18.9	13.6
G000332 (2)	11	.2	5.9	5.4	< 20	13.8	24.5	5.1	174.5
G000333 (3)	7	.2	28.1	53.3	20	36.9	7.9	6.1	8.9
G000334 (4)	5	.2	8.5	3.2	80	14.5	12.4	8.9	44.3
G000335 (5)	2	< .1	9.9	9.6	35	21.5	4.9	33.6	9.3
G000336 (6)	12	1.9	33.9	8.9	1120	43.8	5.3	12.2	299.1
G000337 (7)	3	.3	7.3	2.7	250	40.9	11.3	52.1	34.9
G000338 (8)	4	< .1	7.4	25.5	90	44.4	9.6	17.5	16.5
G000339 (9)	6	.3	2.9	2.6	20	7.5	6.8	10.8	7.9
G000340 (10)	7	.1	4.4	4.5	< 20	14.9	3.9	16.0	8.8
G000341 (11)	4	.2	3.9	4.6	20	55.6	27.4	10.5	205.4

L 61879.0

CMS

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Sample #	Co ppm	Ni ppm	Tl ppm	Bi ppm	Te ppm	Se ppm	U ppm
G000331	1.4	2.9	< .1	1.0	< .1	1.0	1.8
G000332	.7	1.5	.5	.8	1.1	2.5	13.9
G000333	1.2	6.1	< .1	.7	.2	1.5	4.3
G000334	.7	1.6	.1	.6	.7	2.0	4.7
G000335	1.7	3.8	.2	.4	< .1	< .5	25.4
G000336	2.5	13.1	< .1	.6	.2	7.0	35.6
G000337	6.6	8.4	.1	1.0	.2	5.0	16.3
G000338	1.5	5.4	< .1	1.9	.1	2.0	7.2
G000339	1.0	2.5	< .1	.6	.2	3.5	4.6
G000340	2.1	2.7	< .1	.7	.1	.5	12.8
G000341	4.4	5.5	< .1	.5	.1	1.0	.8

Additional elements available on these samples at $ 0.40/element/sample:
Cd, Cr, Ga, Ge, In, Mn, Sr, Th, V - Aqua Regia & HF digestion.
Det. Limits are 0.1 ppm except Cr, Mn, Se 0.5 ppm.
Call Fran if interested.

Your Consulting Chemist L 62 of 90

MSI

EMICAL & MINERALOGICAL SERVICES • 445 WEST 2700 SOUTH • SALT LAKE CITY, UTAH 84115 • (801) 485-0711

Sample #	Co	Ni	Tl	Bi	Te	Se	U
	PPM	PPM	PPM	PPM	PPM	PPM	PPM
G000331	1.4	2.9	< .1	1.0	< .1	1.0	1.8
G000332	.7	1.5	.5	.8	1.1	2.5	13.9
G000333	1.2	6.1	< .1	.7	.2	1.5	4.3
G000334	.7	1.6	.1	.6	.7	2.0	4.7
G000335	1.7	3.8	.2	.4	< .1	< .5	25.4
G000336	2.5	13.1	< .1	.6	.2	7.0	35.6
G000337	6.6	8.4	.1	1.0	.2	5.0	16.3
G000338	1.5	5.4	< .1	1.9	.1	2.0	7.2
G000339	1.0	2.5	< .1	.6	.2	3.5	4.6
G000340	2.1	2.7	< .1	.7	.1	.5	12.8
G000341	4.4	5.5	< .1	.5	.1	1.0	.8

Additional elements available on these samples at $ 0.40/element/sample:
Cd, Cr, Ga, Ge, In, Mn, Sr, Th, V - Aqua Regia & HF digestion.
Det. Limits are 0.1 PPM except Cr, Mn, Se 0.5 PPM.
Call Fran if interested.

Your Consulting Chemist

L 630/90

CHEMICAL & MINERALOGICAL SERVICES • 445 WEST 2700 SOUTH • SALT LAKE CITY, UTAH 84115 • (801) 485-0711

Sample #	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Mo ppm
6000331 (1)	6	< .1	7.5	14.4	110	122.6	7.6	18.9	13.6
6000332 (2)	11	.2	5.9	5.4	< 20	13.8	24.5	5.1	174.5
6000333 (3)	7	.2	28.1	53.3	20	36.9	7.9	6.1	8.9
6000334 (4)	5	.2	8.5	3.2	80	14.5	12.4	8.9	44.3
6000335 (5)	2	< .1	9.9	9.6	35	21.5	4.9	33.6	9.3
6000336 (6)	12	1.9	33.9	8.9	1120	43.8	5.3	12.2	299.1
6000337 (7)	3	.3	7.3	2.7	250	40.9	11.3	52.1	34.9
6000338 (8)	4	< .1	7.4	25.5	90	44.4	9.6	17.5	16.5
6000339 (9)	6	.3	2.9	2.6	20	7.5	6.8	10.8	7.9
6000340 (10)	7	.1	4.4	4.5	< 20	14.9	3.9	16.0	8.8
6000341 (11)	4	.2	3.9	4.6	20	55.6	27.4	10.5	205.4

640/90

Commodity Cu
State Arizona

U.S. BORAX EXPLORATION

PROPERTY DIGEST REPORT

PROPERTY NAME: Congress prospect

MINERAL: Cu

LOCATION: Sec. 20, T10N, R6W South end of the Date Creek Mts. Martinez District Yavapai County, Arizona

CONTACT & DATE: Rich Lundin, 10-12-76

EXAMINATION AND REPORTS:
No previous visits or reports by USB personnel

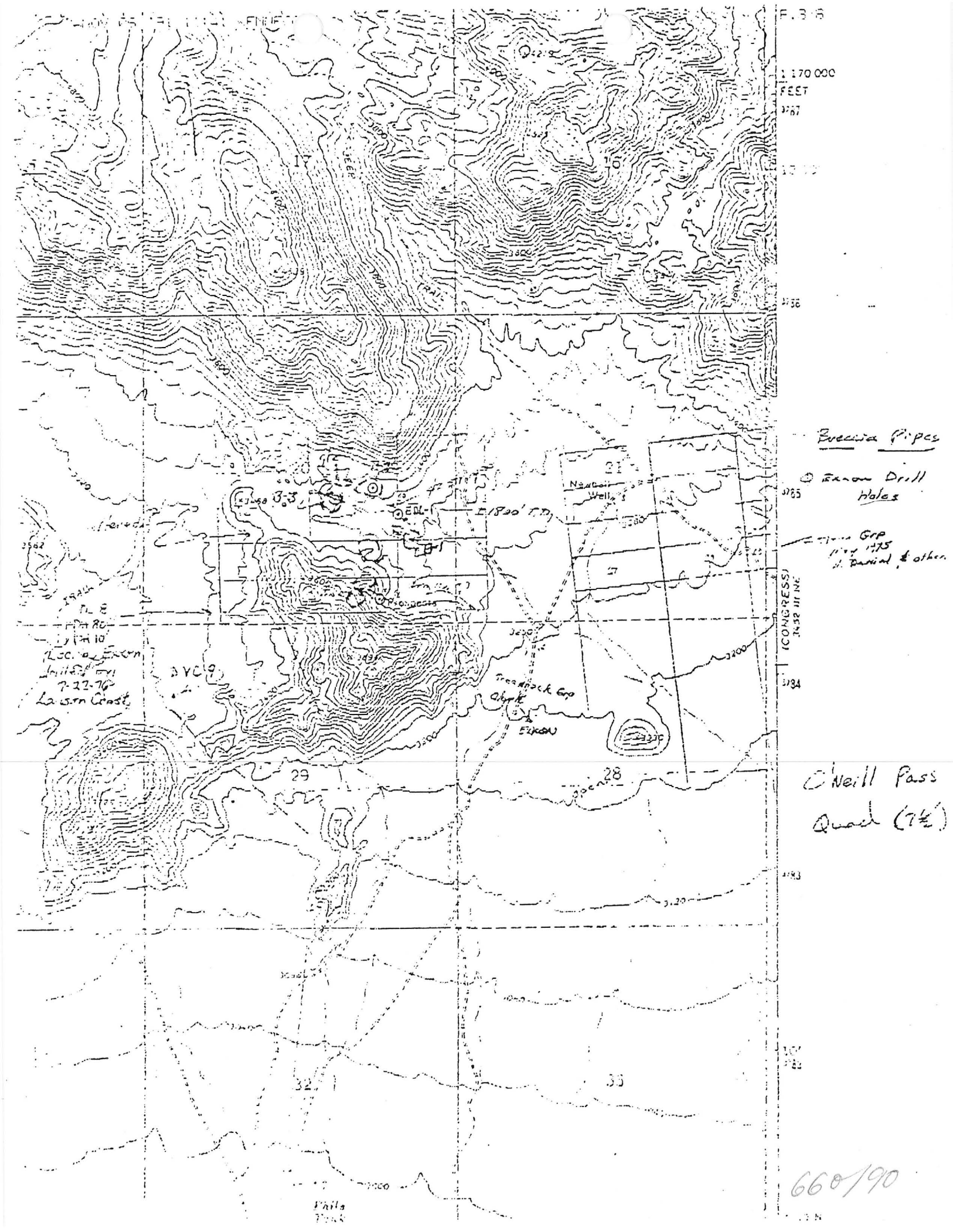
DESCRIPTION: The prospect lies in a NW-trending saddle at the south end of the Date Creek Mountains. Access is by dirt road from the south.

GENERAL GEOLOGY: Barren, unaltered Precambrian granite is the predominate rock-type. Several small dikes, quartz blow-outs and breccia plugs occur in the vicinity of a probable structural intersection. The breccia visited contained quartz-sericite-pyrite mineralization, but no copper. Copper was seen at one prospect in association with a dike-like mass of pyroxenite and carbonatite(?). Alteration in the granitic host rocks was negligible, except for weak pyritic staining and bleaching in conjunction with probable fault zones.

GEOLOGY OF DEPOSIT:

ECONOMICS: Two holes were drilled by Exxon. EDC-1 went about 1800 feet. Core chips showed nothing but pyrite in dead-looking granite. According to Lundin, they also conducted a geophysical survey and spent around $250,000 in total on the project.

650/90


1 170 000 FEET
Breccia Pipes
Exxon Drill Holes
Newton Well
EDL-1
1800' T.D.
Grp 1975 & Daniel & others
(CONGRESS)
Treasure Pack Grp
EXXON
O'Neill Pass Quad (7½')
660/90

Langewiesche
7-8-77

Setting: Prospect lies in a northerly trending belt - consists of 6-7 breccia bodies intruding P granite.
Granite is qtz-rich + contains stringers of qtz and crossing mafic dikes, but otherwise it appears unaltered.

Breccias

B-1) NW-trending body containing qtz-serr-py. Now bleached + iron stained from surface oxidation. Jarosite common filling vugs. No sign of copper.

B-2) Breccia not readily discernible. Mafic rock + limpy with greenish alunite? blebs common. Looks more like shattered zone. No copper.

B-3) no breccia. Calcareous diorite + pyroxenite in NW dike cutting weakly pyritized P gr.

670/90

RECEIVED
APR 5 1982
U.S. BORAX EXPLORATION
TUCSON OFFICE

WOMBAT MINING COMPANY
3425 W Gordon St.
Tucson, Arizona 85741

December 1, 1981

Mr. Barry Watson
Regional Manager
U.S. Borax
Southwest Exploration Offices
1802 West Grant Rd., Suite 108
Tucson, AZ 85705

Dear Barry:

Wombat Mining Company is the proprietary exploration and mining subsidiary of Wallaby Enterprises, Inc., and has been active in the acquisition of mining properties with proven reserves for the last two years. Currently, Wombat has three properties with total probable reserves in the range of 1.0-135 million tons of material that averages between .60% and .85% copper with coproduct and by-product values in gold, silver and molybdenum. We are offering these deposits to your company on a lease with an option to buy basis. I have enclosed short synopses of the information on these properties. If there is interest on your company's part in these properties, we feel that a visit to our offices to review the rather voluminous data base is the best course of action.

The properties are being offered on a first come, first serve basis to many other substantial mining companies at this time.

Visits to the various properties can be arranged and will be conducted by myself or members of our exploration staff.

I have included information with the synopses on the financial arrangements we are seeking. These arrangements are negotiable to some extent but reflect my thinking as to current, industry-wide, standards for agreements of this type.

If you have any questions or wish to further review our data, feel free to call me at our Tucson offices or talk with Barbara Howie or Walt Heinrichs.

Sincerely,

Richard J. Lundin
Managing Partner
Wombat Mining Co.

Enclosure

RJL/lp

680/90

Date: December 1, 1981

WALLABY ENTERPRISES

Mining District Data Base Program

1. Mine or Property Name: Golden Horseshoe Grp.

2. Mining District, County & State:
Martinez Dist., Maricopa County, Arizona

3a. Quadrangles or Map Names:
O'Neill Pass 7½

3b. Location: T 10N R 6W S 20,21,28,29
(See attached map)

3c. Lat. _____ Long. _____

4. Any Former Names: Titan, Green Monster, W.D. Roper Grp.

5. Owner: Wombat Mining Co.

6. Address (Owner): (602)744-2700
3425 W. Bardot Street
Tucson, Arizona 85741

7. Operator: Same As Above

8. Address (Operator):

9. Principal Metals: Cu, Au

10. Mining & Milling Operations: Kinds & Capacities

Present: None

Past: Prospecting and minor production of oxidized Cu ores.

11. Number of Claims, Title, etc. (Please include a sketch map or plat showing location, T. R. & Sec., and the general outline of each group)

8 unpatented lode

12. Previous Published or Unpublished Reports: Private Company report by Exxon Co. U.S.A.

13. Names of Mining Companies or Governmental Agencies that have worked, or are now working on this property.
Exxon, Noranda, Dayquays

14. Ore & Gangue Minerals: Malachite, chrysocola and chalcopyrite with pyrite and quartz.

690/90

15. Geology:
(please include any Geologic Maps, Sketches or Cross Sections)
Mineralization occurs in veinlets and phyllically altered zones in aplite and granite gneiss; also, associated with breccia pipes and shear zones in laramide intrusive (protite granite - porphyritic quartz monzonite) Also in the area is a small body of lamprophyre and diabase w/pegmatites.

16. Type of Mineralization-Metallurgical Considerations:
(please check appropriate box or boxes)

____ Vein or Lode
____ Stratiform
_x_ Disseminated Cu Ox + ccpy
____ Placer
_X_ Oxide Cu Oxides, Fe Oxides
_x_ Sulfide ccpy, py
____ Other _____

17. Ore Reserves: Dumps_____tons @_____grade

Tailings_____tons @_____grade
1.5 MT estimated by Roper from Exxon Drilling 1.0% Cu

18. Mine, Mill Equipment & Flow Sheet:

None

19. Road Conditions, Route:

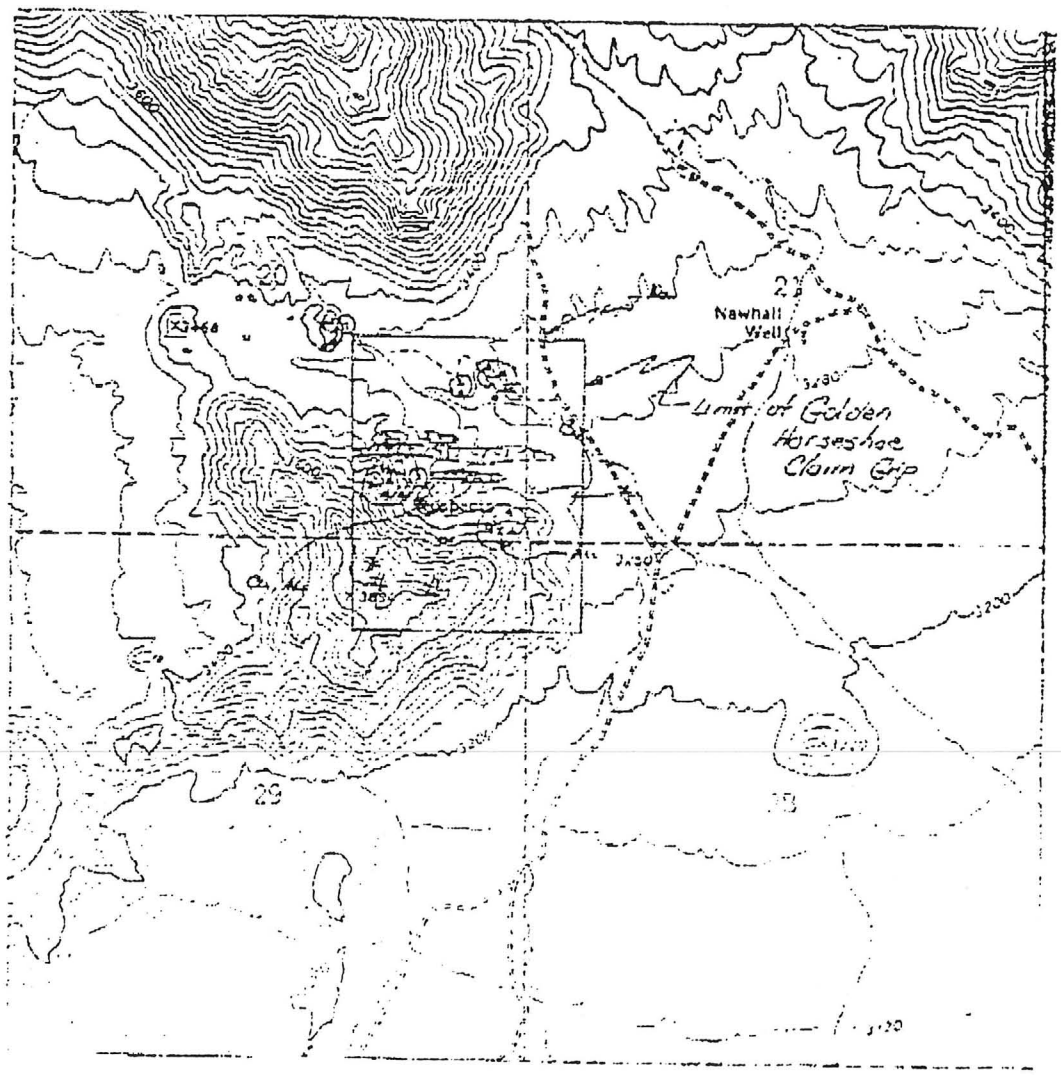
See Sketch

20. Water & Power Supply:

Water available locally

21. Extent of Development: (Please include any maps, plans, sketches, longitudinal or cross sections of underground or surface workings)
Minor prospect pits and surface workings

WOMBAT MINING COMPANY
3425 W. Bardot St.
Tucson, Arizona 85741



Brecciated zones

Oxide Cu mineralization

Stockwork Qtz veins

Lamprophyre - Diabase

Aplite

710190

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

REPORT OF ANALYSIS

JOB NO. VNX 001
December 22, 1988
PROJECT NO. W1031
P.O. NO. 883633-B
1773-001 TO 1773-016

MR. RICHARD L. LUNDIN
372 Hackberry Circle
Prescott, AZ 86301

Analysis of 16 Rock Chip Samples

ITEM	SAMPLE NUMBER	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)
1	1773-001	.065	.90	8.	<1.
2	1773-002	.090	.65	65.	3.
3	1773-003	.005	.30	12.	<1.
4	1773-004	<.002	.35	8.	<1.
5	1773-005	.002	.30	8.	<1.
6	1773-006	.010	1.00	300.	200.
7	1773-007	<.002	.15	18.	10.
8	1773-008	<.002	.15	12.	4.
9	1773-009	<.002	.25	6.	<1.
10	1773-010	<.002	.15	8.	<1.
11	1773-011	<.002	.25	24.	3.
12	1773-012	.070	.65	16.	4.
13	1773-013	<.002	.10	8.	<1.
14	1773-014	<.002	.15	16.	<1.
15	1773-015	.017	1.40	16.	3.
16	1773-016	.015	1.60	6.	<1.

72.0/90

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

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

JOB NO. VNX 001
December 22, 1988

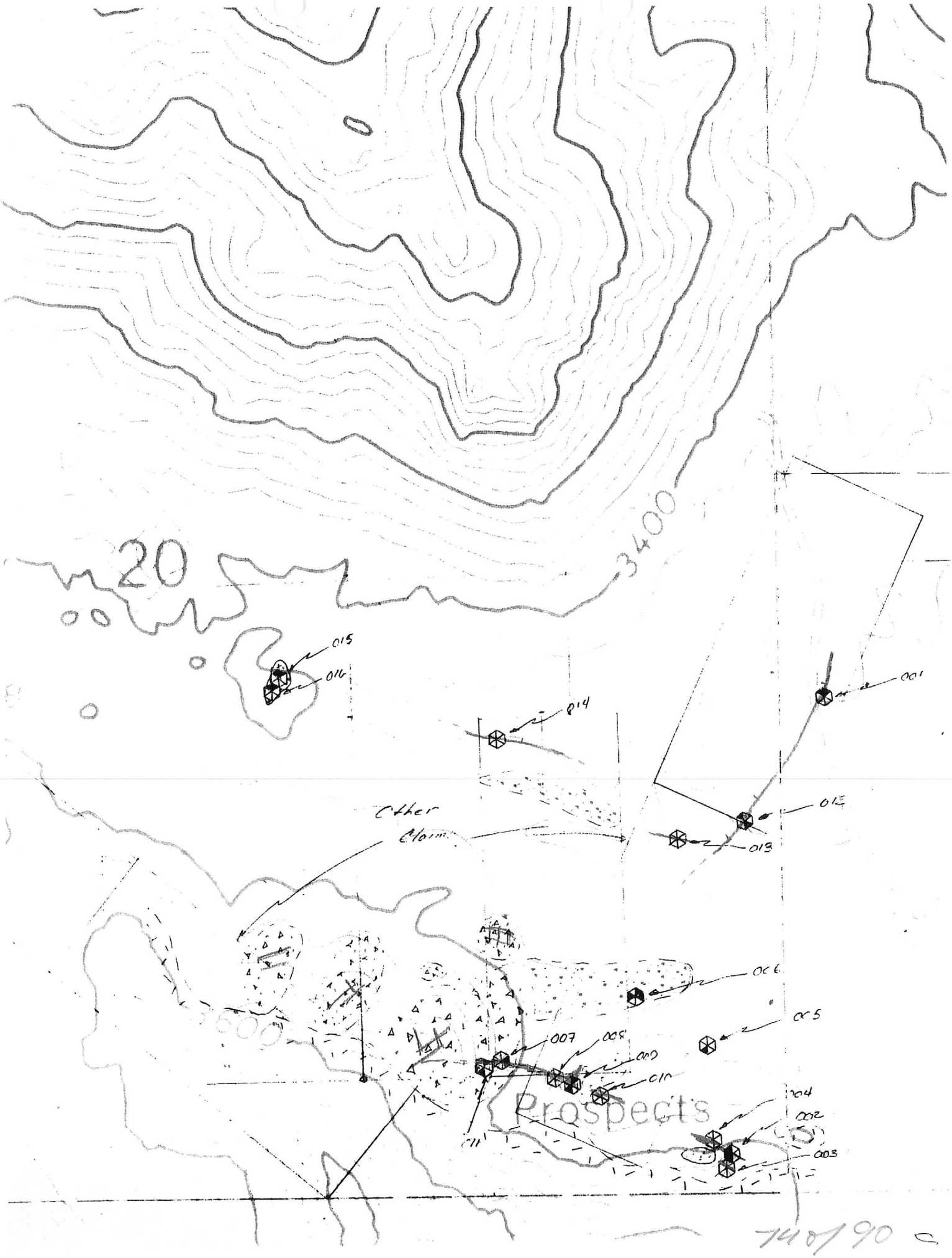
ITEM	SAMPLE NUMBER	Cu (ppm)	Mo (ppm)	Hg (ppm)
1	1773-001	195.	<2.	.03
2	1773-002	42.	44.	.01
3	1773-003	8.	<2.	.02
4	1773-004	50.	<2.	.02
5	1773-005	75.	22.	.03
6	1773-006	1400.	<2.	.01
7	1773-007	50.	4.	.01
8	1773-008	28.	<2.	.02
9	1773-009	160.	26.	.02
10	1773-010	8.	<2.	.01
11	1773-011	280.	20.	.02
12	1773-012	42.	4.	.13
13	1773-013	20.	<2.	<.01
14	1773-014	18.	2.	.03
15	1773-015	2200.	<2.	.02
16	1773-016	1100.	<2.	<.01

cc: Kiewitt Mining Group, Inc.
Attn.: Mr. Robert Reseigh
3100 Mill St., #108
Reno, NV 89502

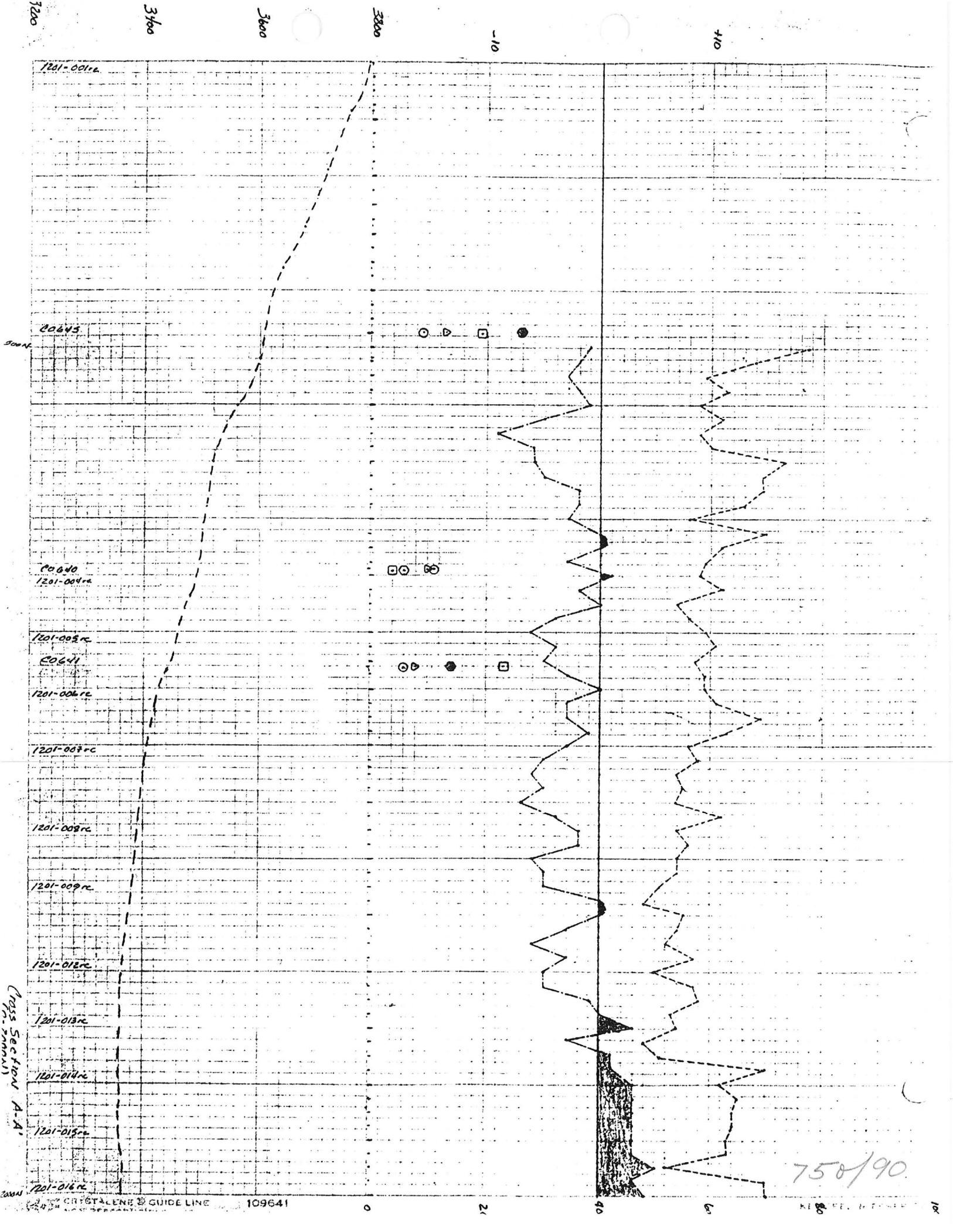
REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK ARIZONA

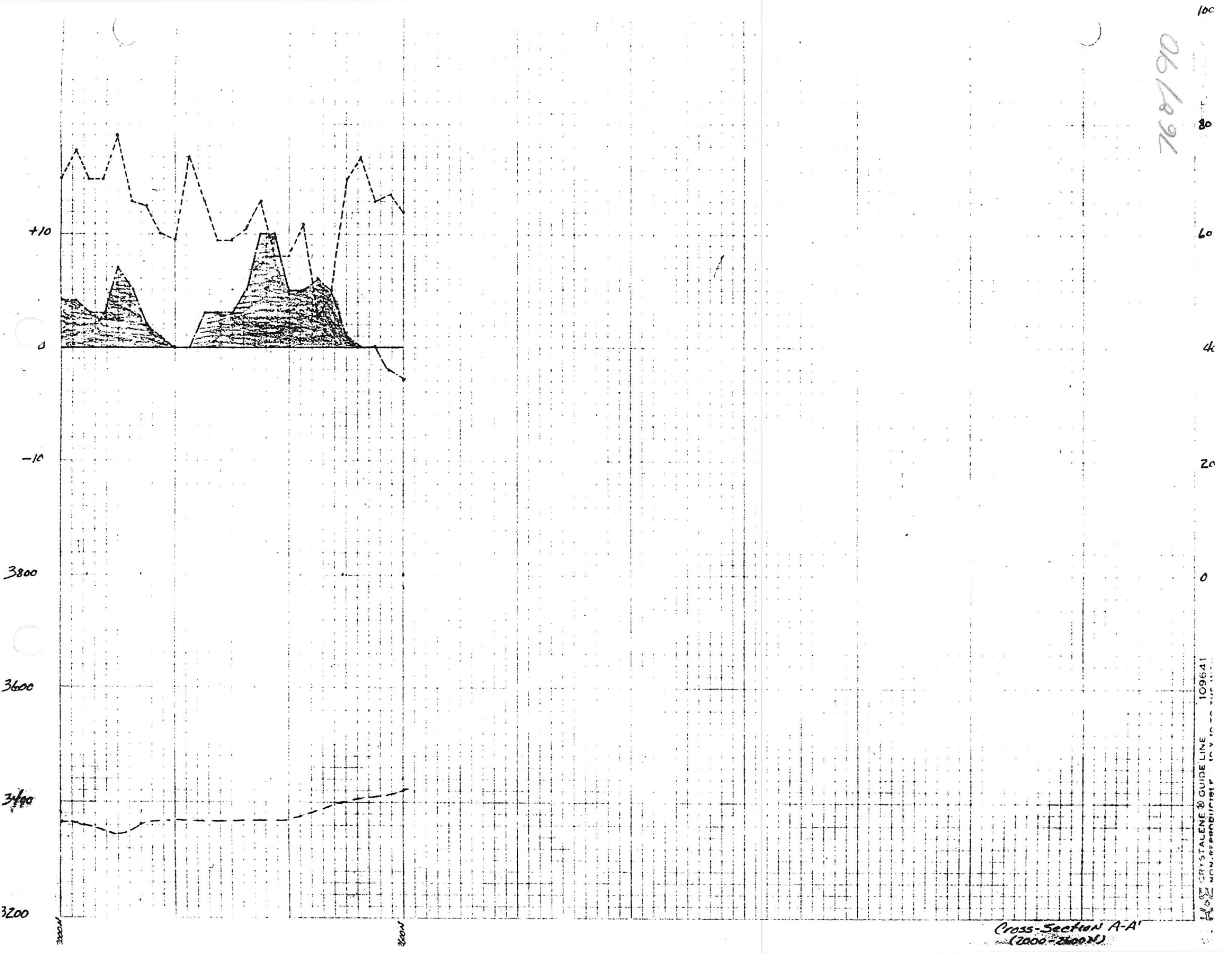
William L. Lehmbeck
Manager

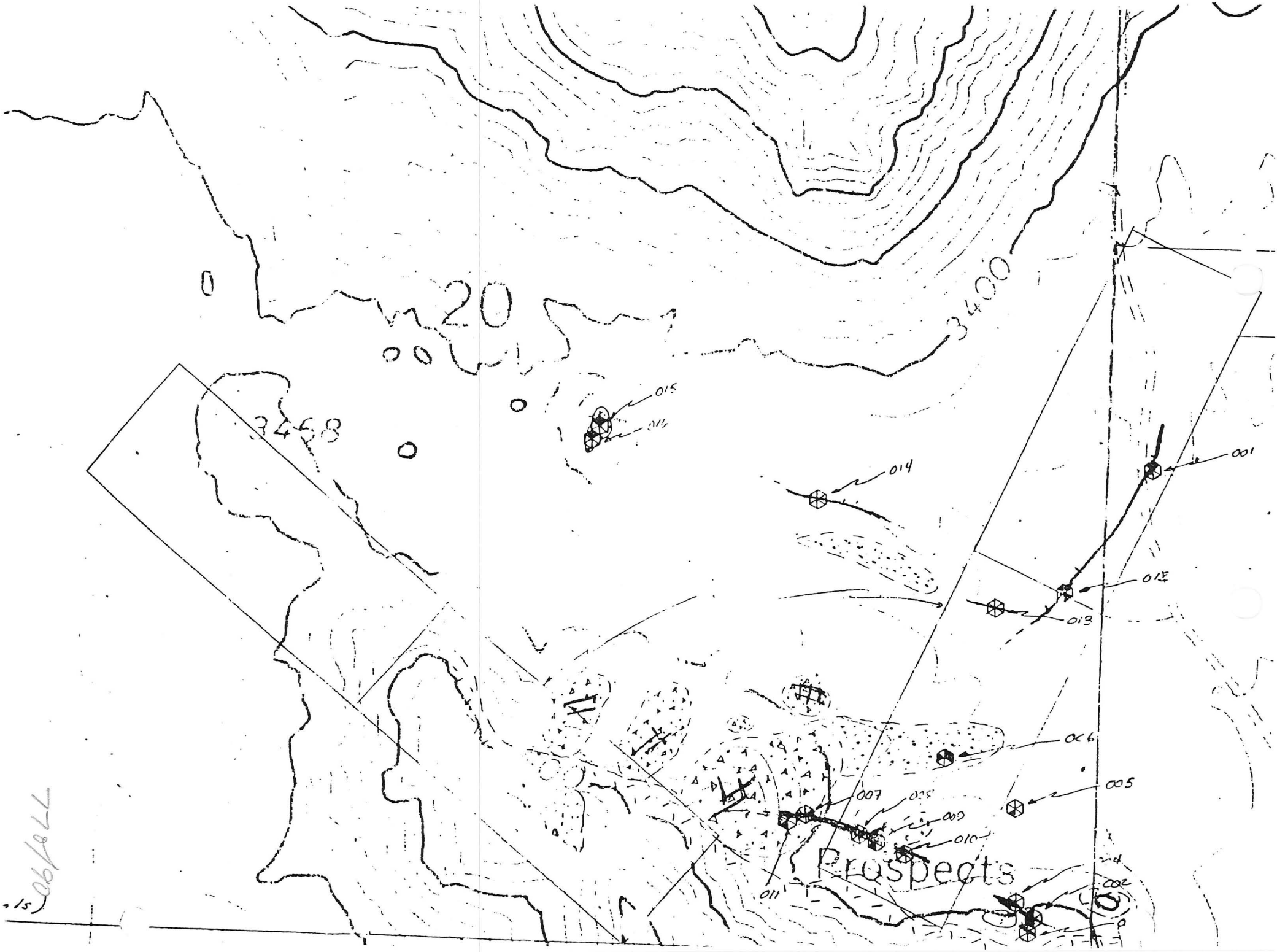
730/90


20
3400
3600
015
016
014
001
012
013
Other Claims
006
005
007
008
009
010
011
004
002
003
Prospects

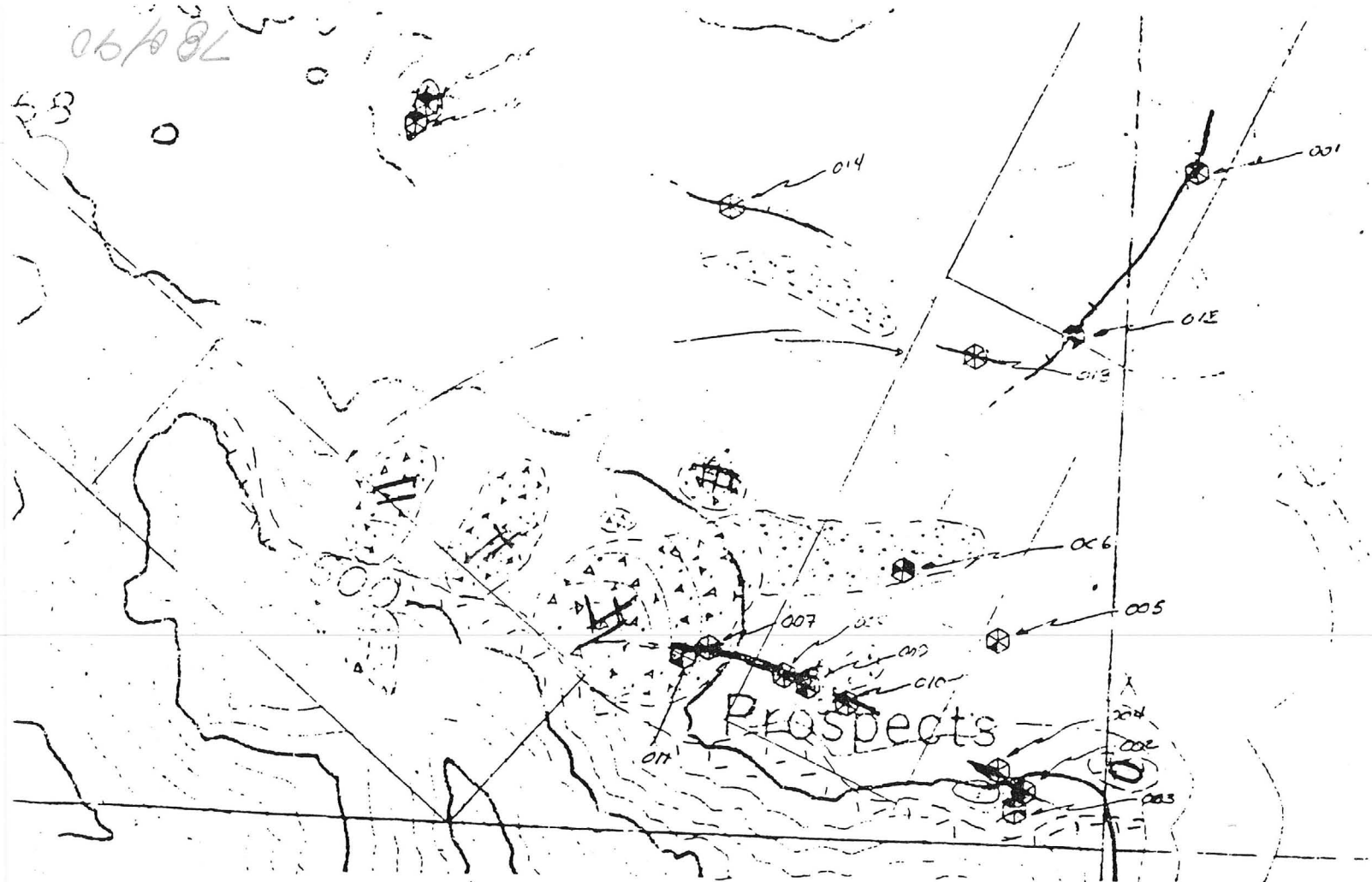
7/10/90


3200
3400
3600
3800
-10
+10
1201-001rc
C0645
500N
C0640
1201-004rc
1201-005rc
C0641
1201-006rc
1201-007rc
1201-008rc
1201-009rc
1201-012rc
1201-013rc
1201-014rc
1201-015rc
1201-016rc
2000N
Cross Section A-A'
750/90
CRYSTALENE GUIDE LINE
109641
0
20
40
60
80
100


+10
0
-10
3800
3600
3400
3200
2000N
2600N
100
80
60
40
20
0
Cross-Section A-A'
(2000-2600N)
CRYSTALENE® GUIDE LINE
109641
768190


20
3400
3458
015
016
014
001
012
013
006
005
007
008
009
010
011
Prospects
002
004
003

77 of 90



Legend

(>.05ppm) Au (Cu (>100 ppm)
(>50 ppm) As Sb (>1 ppm)
(>50 ppm) Sb Hg (>.5 ppm)

Breccia Features (w/ FeOx staining)

Alg-Sericite Alteration w/ dis CuOx

Unaltered PC granite gneiss

Diabase w/ CuOx

Quartz-carbonate veins w/ FeOx & Hyp sep

Congress Cu-Mo Prospect

Telephone Conversation with Burns Clark on March 3, 1992

Burns Clark, P.O. Box 96, Congress, Arizona 602-427-3950

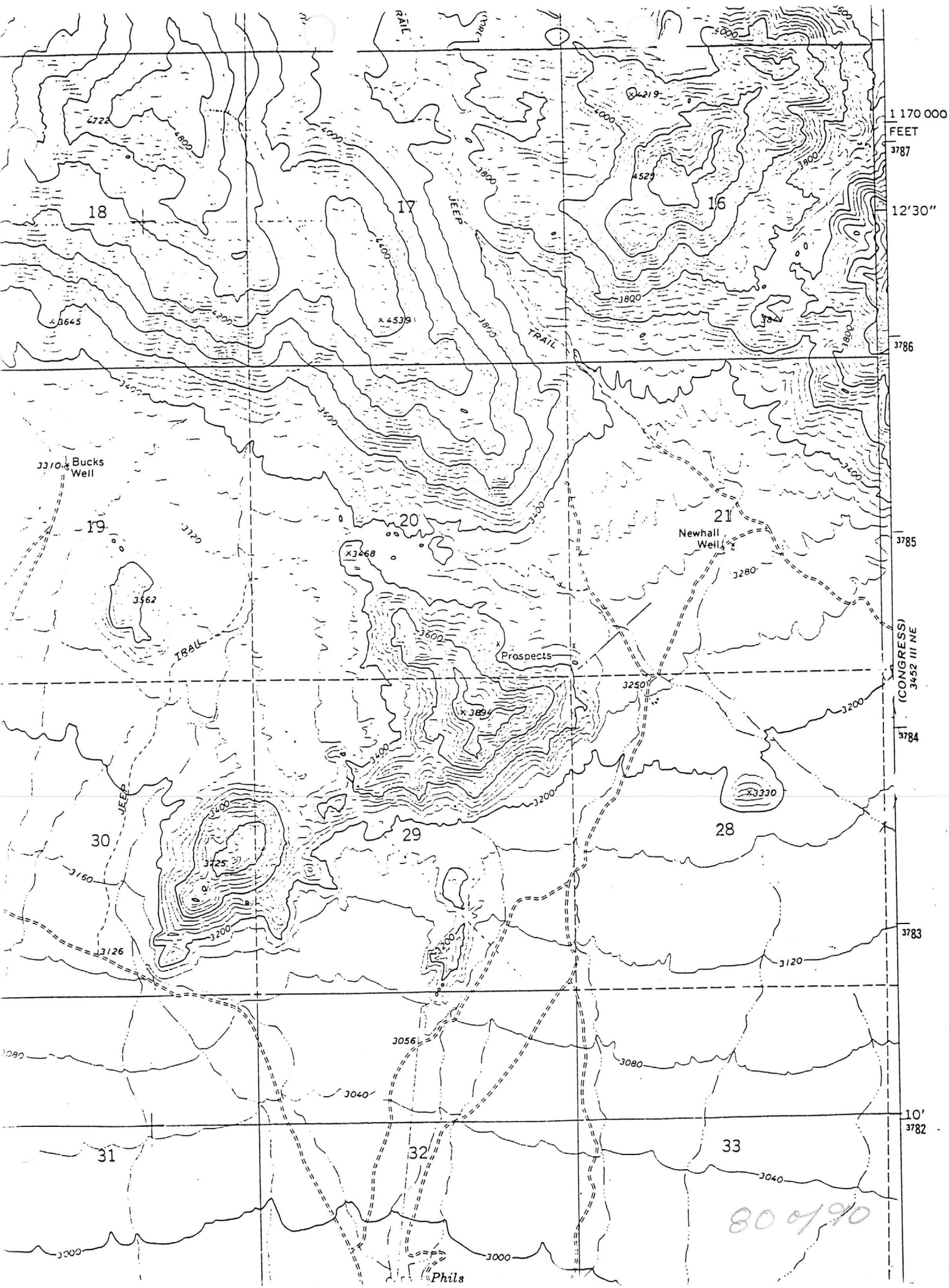
Burns Clark and his brother had claims that were on breccia pipe and became partners with W.D. Roper.

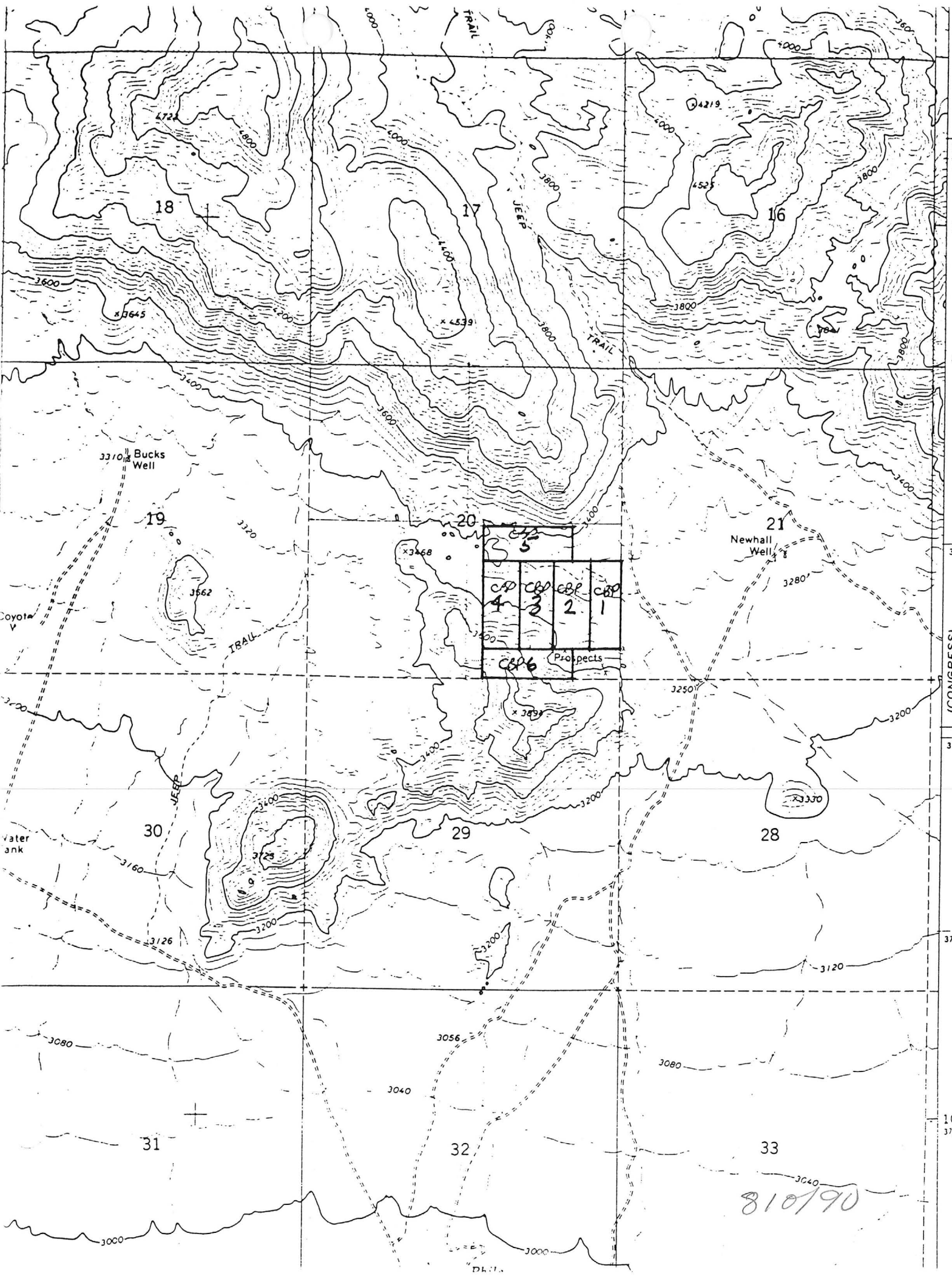
Clark and Ropers drill a 200' core hole new on the road below the breccia on the east side. The hole showed good copper and unfortunately Exxon took all the core and did not return any. Also near new the pit and old car that showed copper mineralization (drill collar in place). Also drilled on the northeast side of the property near Indian rock. All drilling was 200' or less in depth.

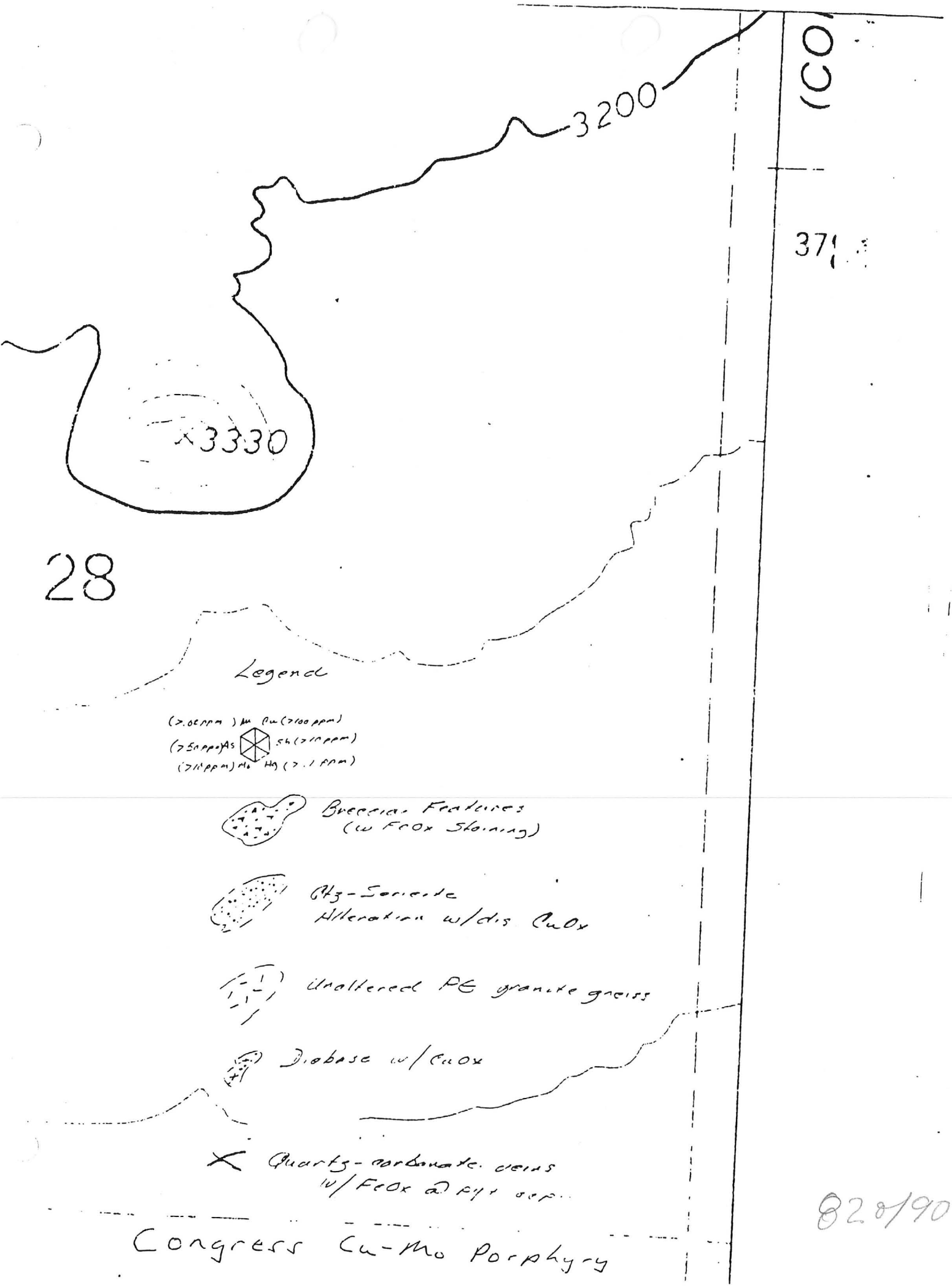
Burns Clark has a copy of the Exxon report and believes his mother, Ann Clark, may have a copy of the other Exxon report showing the results of analysis from their drill on the breccia pipe.

Burns Clark agreed to send copies of all the data.

790/90


1 170 000
FEET
3787
12'30"
3786
3785
3784
3783
10'
3782
(CONGRESS)
3452 III NE
18
17
16
19
20
21
30
29
28
31
32
33
JEEP
TRAIL
Bucks
Well
Newhall
Well
Prospects
Phils
4722
4800
4000
4219
4529
3800
4600
4539
4200
3645
3400
3500
3310
3720
3468
3562
3600
3280
3250
3200
3894
3330
3725
3160
3126
3120
3056
3080
3040
3000
80 of 90


18
17
16
19
20
21
30
29
28
31
32
33
JEEP
TRAIL
Bucks Well
Newhall Well
Coyote
Water Tank
Prospects
CBP 1
CBP 2
CBP 3
CBP 4
CBP 5
CBP 6
(CONGRESS)
3452 III NE
3787
3786
3785
3784
3783
3782
3310
3320
3662
3468
3280
3250
3200
3330
3160
3126
3120
3080
3056
3040
3000
4219
4525
4539
4723
3645
3600
3800
4000
4400
4800
810/90


3200
3330
28
Legend
(>.05ppm) Au Cu (>100 ppm)
(>50ppm) As Sb (>10 ppm)
(>10ppm) Mo Hg (>.1 ppm)
Breccias Features
(w FeOx Staining)
Ag-Sericite
Alteration w/dis CuOx
Unaltered PE granite gneiss
Diabase w/CuOx
Quartz-carbonate veins
w/FeOx & Py+ sep.
Congress Cu-Mo Porphyry
8/20/90

Congress Porphyry Copper Property
Yavapai Co., Arizona

Thorny Rogers
Geological Consultant

830/90

CONGRESS PORPHYRY COPPER
Yavapai Co. Arizona

The Congress porphyry copper property is located in the foothills of the Date Creek Mountains, west of Congress, Arizona. This property, solely controlled by Thorny Rogers, consists of 19 mining claims in section 20, T 10 N, and R 6 W in the Congress mining district of Yavapai County.

The Congress porphyry copper property is characterized by at least four breccia pipes, ranging from 200 to 600' in diameter, that intrude the predominant Precambrian granite to granitic gneiss terrain. Breccia pipes occur at the favorable intersection of structures that strike N 20-40 E and N 50-70 W. These breccia pipes show anomalous copper and molybdenum based on limited sampling. Lithologically, these highly-leached breccia pipes consist of subrounded to angular, pebble to boulder fragments of Precambrian granitic gneiss, Larimide porphyry, aplite, and quartz. The fragments are tightly cemented by quartz, local carbonates, and limonite including jarosite, goethite, and hematite. Breccias locally show cellular and spongy limonitic boxworks.

The breccia pipes occurs within a discontinuous envelope (1,800' by 3,000') of quartz-sericite-limonite (phyllic) altered mafic dikes, aplites, pegmatites and Precambrian granites to granitic gneisses. Disseminated copper carbonates associated with tenorite or melaconite, occur sporadically within the property and are well displayed in one aplite dike. Sparse propylitic alteration with a mineral assemblage of chlorite, epidote, sericite, and pyrite was observed locally in Precambrian granite to granitic gneisses on the fringe of the phyllic alteration zone. Occasional limonitic quartz-carbonate veins occur along both the northwest and northeast structures. Anomalous gold, copper, molybdenum, arsenic, and antimony occur in limited samples taken in the quartz-sericite altered rocks and vein material.

The association of mineralized breccias pipes; anomalous copper, molybdenum, gold, arsenic, and antimony; felsic dikes; and phyllic (quartz-sericite) alteration strongly suggests that the surface expression represents the upper level of a buried, Larimide porphyry with copper-molybdenum mineralization. Breccia pipes are associated with many southwest copper porphyries and are important ore controls in the Copper Basin deposit in northern Yavapai County, and in Cananea, and Caridad, Sonora.

The Congress property is available for lease and all interested parties must sign and return the enclosed confidentiality agreement. Please send the signed confidentiality agreement to the attention of Thorny Rogers at the following FAX: 602-993-7325. Then additional data will be made available and arrangements can be made for a property visit.

Thorny Rogers
559 W. Tam-O-Shanter Dr.
Phoenix, Arizona 85023
602-866-0478

848/90

Green Giant
(Titan)

Talk to Rich Lundon on 10/18/91

Exxon drilled 4 hole deepest last in leached cap @ 800'

Exxon geophysicist believed to pore body ≥ 1,000'!

- hydrothermal bx on surface: Ft-sen
- Presently controlled by Santa Fe Pacific Mining
- Data probably lost @ told by Rich

Check Lunel structure

850/90

Riley Rockhill
427-3909

Richard L. Donahue (daughter)
Bagdad – 633-2109
M WATE

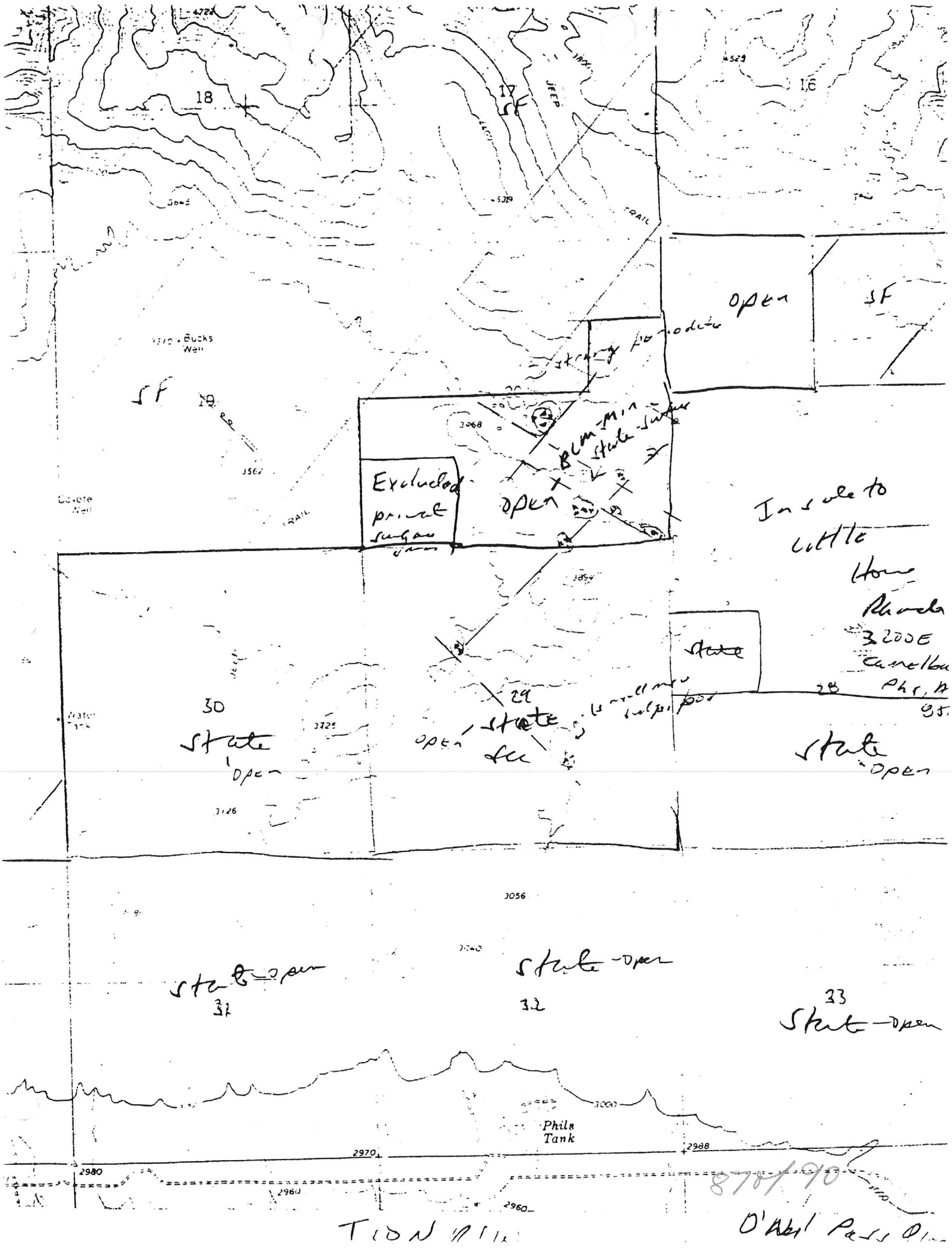
A & R Ranch [illegible] O'Neal pa
– [illegible]
w/ [illegible]
[illegible]

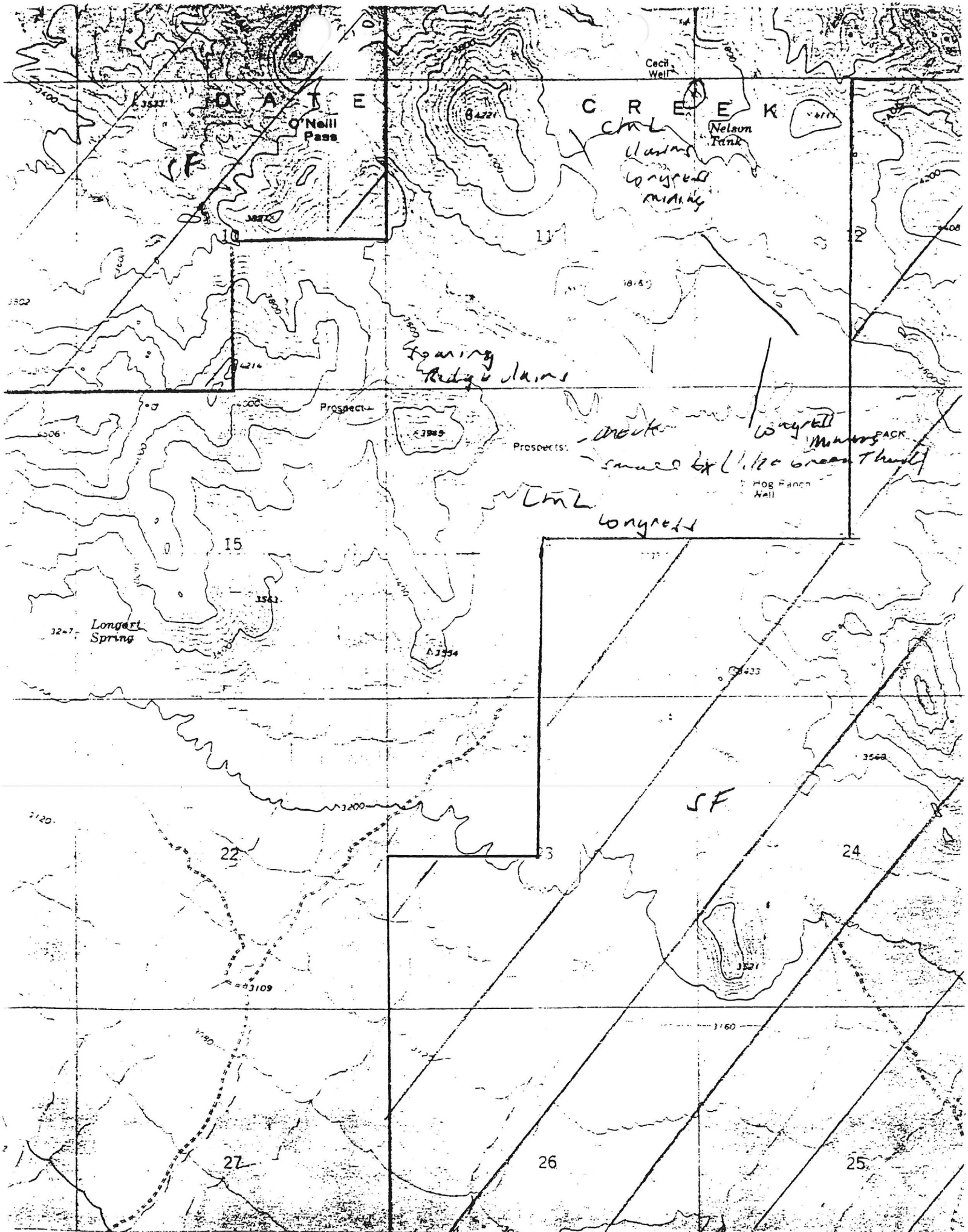
Martha J. P. Fox 427-6237
Runs Ranch patrons w/ W to Cope
[illegible] for Runs Ranch
live in Congress (no telephone)

Oxbow Ranch
Caretaker – N. [illegible]
Kris Lorentzen 427-6483
Main Headquarters: Hillside Rd.
Owner John Murphy
Attorney: Real Estate
Phoenix, Arizona

April 14 mill to [illegible]
Like company property but pow. not big
enough target for [illegible]
Their idea:
1) Not [illegible] [illegible] [illegible] Test by
[illegible] NE 2000 x 4000 [illegible]
[illegible]: 176,000 tons / [illegible]
(12 [illegible] / ton)

860190


18
17
SF
JEEP
TRAIL
16
Open
SF
Bucks Well
SF
19
Strong potential
BLM-MIN State surface
Excluded private surface
Open
Coyote Well
TRAIL
Insole to Little Horse Rancho
3200E
Camelback
Phx, AZ
95
State
30
State
Open
29
State
Open
State
Open
3056
State-Open
State-Open
31
32
33
State-Open
Phils Tank
2970
2988
2980
2960
2960
8/8/90
T10N R11
O'Abel Pass Pl



T10N R7W, 880/90 O'Neill P. 7.5'

89 of 90 and 90 of 90 are blank

7-1-97

Hi Nyal,

Enjoyed chatting with you yesterday and appreciate the tips that you gave me. Enclosed is a description of our claims and the analyses of our drill-hole cuttings. Look forward to meeting you.

Vic

V. J. BARCZAK

V. Barczak
4705 Cody Drive
Prescott, AZ 86301

PHOENIX, AZ 850
PM
01 JUL
1997

Mr. Nyal J. Niemuth
Arizona Dept. of Mines & Mineral Resources
1502 West Washington
Phoenix, AZ 85007

85007+3210 02

ıly 3, 1997

COPPER PROSPECT IN YAVAPAI COUNTY, ARIZONA - THE CBP GROUP OF CLAIMS

(Owners: Richard J. Lundin & Virgil J. Barczak)

We have a copper prospect in southwest Yavapai County, Arizona, that consists of eight contiguous unpatented claims. During April, 1997, we drilled a hole to a depth of 100 feet and recovered the cuttings from each five-foot interval. Analyses by a commercial analytical laboratory showed the interval between 40 feet and 100 feet averaged 0.53% copper, 0.137 oz/ton silver, and 0.002 oz/ton gold. These data, plus our work over the past three years, indicate this prospect contains a copper porphyry at relatively shallow depth and of sufficient size to warrant additional drilling and geological studies. We are interested in leasing these claims for a one-year period, with option to purchase, to a qualified party for $25,000.00. In return, the leasor would agree to conduct a drilling program and possibly some geological studies in order to determine the size and grade of this ore deposit.

Our claims contain outcrops of 11 highly silicified breccia pipes, very possibly structurally controlled, with the largest having a diameter of approximately 400 feet. Our drill hole is near the eastern base of the largest pipe. Also within our claims are several mafic dikes. Pervasive sericitization and silicification alteration occurs in most rocks throughout the area. The host rock is Precambrian granite.

Copper mineralization is observed at the surface near the largest breccia pipe in the east-central portion of the claims, and also in the mafic dikes in the northwestern portion of the claims. The most intense surface copper mineralization (malachite) occurs approximately 400 feet east of our drill hole, and is believed to be hosted in the same type of intrusive rock we encountered during drilling. Therefore, we believe that the copper mineralization is continuous over this 400 foot interval, and most probably extends in other directions over appreciable distances. We also feel that the main ore body could be of much higher grade, and is west of our drill hole within the breccia pipe complex.

Our claims are located three miles northwest of the town of Congress. They essentially cover the entire SE 1/4 of Section 20, Township 10N, Range 6W, and are accessible by dirt road. For additional information and/or a tour of the property, please contact either of the following;

Virgil J. Barczak	(520) 771-0759
Richard J. Lundin	(520) 778-6222
	(520) 776-0946 FAX
	(520) 501-4683 MOBILE

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: AMERICAN COPPER & NICKEL CO.

1040 SANDRETTO DR.
PRESCOTT, ARIZONA
86301

Project : 303682
Comments: ATTN: DAVID OLIVER CC: PHIL RUSH

Certificate Date: 26-APR-97
Invoice No. : I9721225
P.O. Number :
Account : DRP

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9721225

SAMPLE	PREP CODE		Au ppm FA+AA	Au g/t calc.	Ag ppm	As ppm	Bi ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
RX339523	205	226	0.005	< 0.01	< 0.2	14	< 2	58	< 1	< 1	6	4	28
RX339524	205	226	0.025	0.03	< 0.2	32	< 2	169	< 1	1	34	10	38
RX339525	205	234	0.015	0.01	< 0.2	14	< 2	79	< 1	2	10	6	48
RX339526	205	234	0.015	0.01	0.2	38	< 2	262	< 1	2	16	20	44
RX339527	205	234	0.020	0.02	5.8	554	< 2	6080	3	< 1	100	216	292
RX339528	205	234	0.010	0.01	0.2	48	< 2	224	< 1	1	10	32	48
RX339529	205	234	0.060	0.06	0.2	72	< 2	477	< 1	1	10	32	112
RX339530	205	234	0.055	0.05	3.6	538	< 2	2410	2	1	84	218	172
RX339531	205	234	0.050	0.05	3.2	608	< 2	7170	1	2	104	156	250
RX339532	205	234	0.070	0.07	4.8	756	Intf*	>10000	2	1	208	170	340
RX339533	205	234	0.030	0.03	2.2	368	< 2	704	1	< 1	148	144	50
RX339534	205	234	0.055	0.05	3.0	690	< 2	5350	3	< 1	82	288	300
RX339535	205	234	0.035	0.04	3.0	650	< 2	5560	3	< 1	180	186	318
RX339536	205	234	0.040	0.04	3.8	780	2	4040	3	< 1	296	204	296
RX339537	205	234	0.085	0.09	5.2	904	2	7370	3	< 1	252	196	338
RX339538	205	234	0.020	0.02	5.4	492	< 2	6180	3	< 1	90	202	276
RX339539	205	234	0.025	0.03	6.2	590	< 2	6410	3	< 1	106	216	296
RX339540	205	234	0.050	0.05	3.2	782	< 2	4600	2	< 1	102	178	302
RX339541	205	234	0.010	0.01	1.0	250	< 2	1200	1	1	14	80	128
RX339542	205	234	0.015	0.01	5.6	1330	< 2	3950	6	< 1	12	436	572

CERTIFICATION: Hart Bichler

* INTERFERENCES: Cu on Bi

CONGRESS' PORPHYRY COPPER

CONGRESS COPPER-MOLYBDENUM PORPHYRY
Yavapai Co. Arizona

The Congress copper-molybdenum porphyry property is located in the foothills of the Date Creek Mountains, west of Congress, Arizona. This property, solely controlled by Thorny Rogers, consists of 19 mining claims in section 20, T 10 N, and R 6 W in the Congress mining district of Yavapai County.

The Congress porphyry is characterized by at least four breccia pipes, ranging from 200 to 600' in diameter, that intrude the predominant Precambrian granite to granitic-gneiss terrain. Breccia pipes occur at the favorable intersection of structures that strike N 20-40 E and N 50-70 W. These breccia pipes show anomalous copper and molybdenum based on limited sampling. Lithologically, these highly-leached breccia pipes consist of subrounded to angular, pebble to boulder fragments of Precambrian granitic gneiss, Larimide porphyry, aplite, and quartz. The fragments are tightly cemented by quartz, local carbonates, and limonite including jarosite, goethite, and hematite. Breccias locally show cellular and spongy limonitic boxworks.

The breccia pipes occurs within a discontinuous envelope (1,800' by 3,000') of quartz-sericite-limonite (phyllic) altered mafic dikes, aplites, pegmatites and Precambrian granites to granitic gneisses. Disseminated copper carbonates associated with tenorite or melaconite, occur sporadically within the property and are well displayed in one aplite dike. Potassic alteration occurs only locally as salvages of k-feldspar and biotite in fractures. Sparse propylitic alteration with a mineral assemblage of chlorite, epidote, sericite, and pyrite was observed locally in Precambrian granite to granitic gneisses on the fringe of the phyllic alteration zone. Occasional limonitic quartz-carbonate veins occur along both the northwest and northeast structures. Anomalous gold, copper, molybdenum, arsenic, and antimony occur in limited samples taken in the quartz-sericite altered rocks and vein material.

The association of mineralized breccias pipes; anomalous copper, molybdenum, gold, arsenic, and antimony; felsic dikes; and phyllic (quartz-sericite) alteration strongly suggests that the surface expression represents the upper level of a buried, Larimide porphyry with copper-molybdenum mineralization. Breccia pipes are associated with many southwest copper porphyries and are important ore controls in the Copper Basin deposit in northern Yavapai County, and in Cananea, and Caridad, Sonora.

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Thorny Rogers
559 W. Tam-O-Shanter Dr.
Phoenix, Arizona 85023
602-866-0478

2-1992

CHEMICAL & MINERALOGICAL SERVICES • 445 WEST 2700 SOUTH • SALT LAKE CITY, UTAH 84115 • (801) 485-0711

Sample #	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Mo ppm
G000331 (1)	6	< .1	7.5	14.4	110	122.6	7.6	18.9	13.6
G000332 (2)	11	.2	5.9	5.4	< 20	13.8	24.5	5.1	174.5
G000333 (3)	7	.2	28.1	53.3	20	36.9	7.9	6.1	8.9
G000334 (4)	5	.2	8.5	3.2	80	14.5	12.4	8.9	44.3
G000335 (5)	2	< .1	9.9	9.6	35	21.5	4.9	33.6	9.3
G000336 (6)	12	1.9	33.9	8.9	1120	43.8	5.3	12.2	299.1
G000337 (7)	3	.3	7.3	2.7	250	40.9	11.3	52.1	34.9
G000338 (8)	4	< .1	7.4	25.5	90	44.4	9.6	17.5	16.5
G000339 (9)	6	.3	2.9	2.6	20	7.5	6.8	10.8	7.9
G000340 (10)	7	.1	4.4	4.5	< 20	14.9	3.9	16.0	8.8
G000341 (11)	4	.2	3.9	4.6	20	55.6	27.4	10.5	205.4

CMS

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Sample #	Co ppm	Ni ppm	Tl ppm	Bi ppm	Te ppm	Se ppm	U ppm
G000331	1.4	2.9	< .1	1.0	< .1	1.0	1.8
G000332	.7	1.5	.5	.8	1.1	2.5	13.9
G000333	1.2	6.1	< .1	.7	.2	1.5	4.3
G000334	.7	1.6	.1	.6	.7	2.0	4.7
G000335	1.7	3.8	.2	.4	< .1	< .5	25.4
G000336	2.5	13.1	< .1	.6	.2	7.0	35.6
G000337	6.6	8.4	.1	1.0	.2	5.0	16.3
G000338	1.5	5.4	< .1	1.9	.1	2.0	7.2
G000339	1.0	2.5	< .1	.6	.2	3.5	4.6
G000340	2.1	2.7	< .1	.7	.1	.5	12.8
G000341	4.4	5.5	< .1	.5	.1	1.0	.8

Additional elements available on these samples at $ 0.40/element/sample:
Cd, Cr, Ga, Ge, In, Mn, Sr, Th, V - Aqua Regia & HF digestion.
Det. Limits are 0.1 ppm except Cr, Mn, Se 0.5 ppm.
Call Fran if interested.

Your Consulting Chemist

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Sample #	Co	Ni	Tl	Bi	Te	Se	U
	PPM	PPM	PPM	PPM	PPM	PPM	PPM
G000331	1.4	2.9	< .1	1.0	< .1	1.0	1.8
G000332	.7	1.5	.5	.8	1.1	2.5	13.9
G000333	1.2	6.1	< .1	.7	.2	1.5	4.3
G000334	.7	1.6	.1	.6	.7	2.0	4.7
G000335	1.7	3.8	.2	.4	< .1	< .5	25.4
G000336	2.5	13.1	< .1	.6	.2	7.0	35.6
G000337	6.6	8.4	.1	1.0	.2	5.0	16.3
G000338	1.5	5.4	< .1	1.9	.1	2.0	7.2
G000339	1.0	2.5	< .1	.6	.2	3.5	4.6
G000340	2.1	2.7	< .1	.7	.1	.5	12.8
G000341	4.4	5.5	< .1	.5	.1	1.0	.8

Additional elements available on these samples at $ 0.40/element/sample:
Cd, Cr, Ga, Ge, In, Mn, Sr, Th, V - Aqua Regia & HF digestion.
Det. Limits are 0.1 PPM except Cr, Mn, Se 0.5 PPM.
Call Fran if interested.

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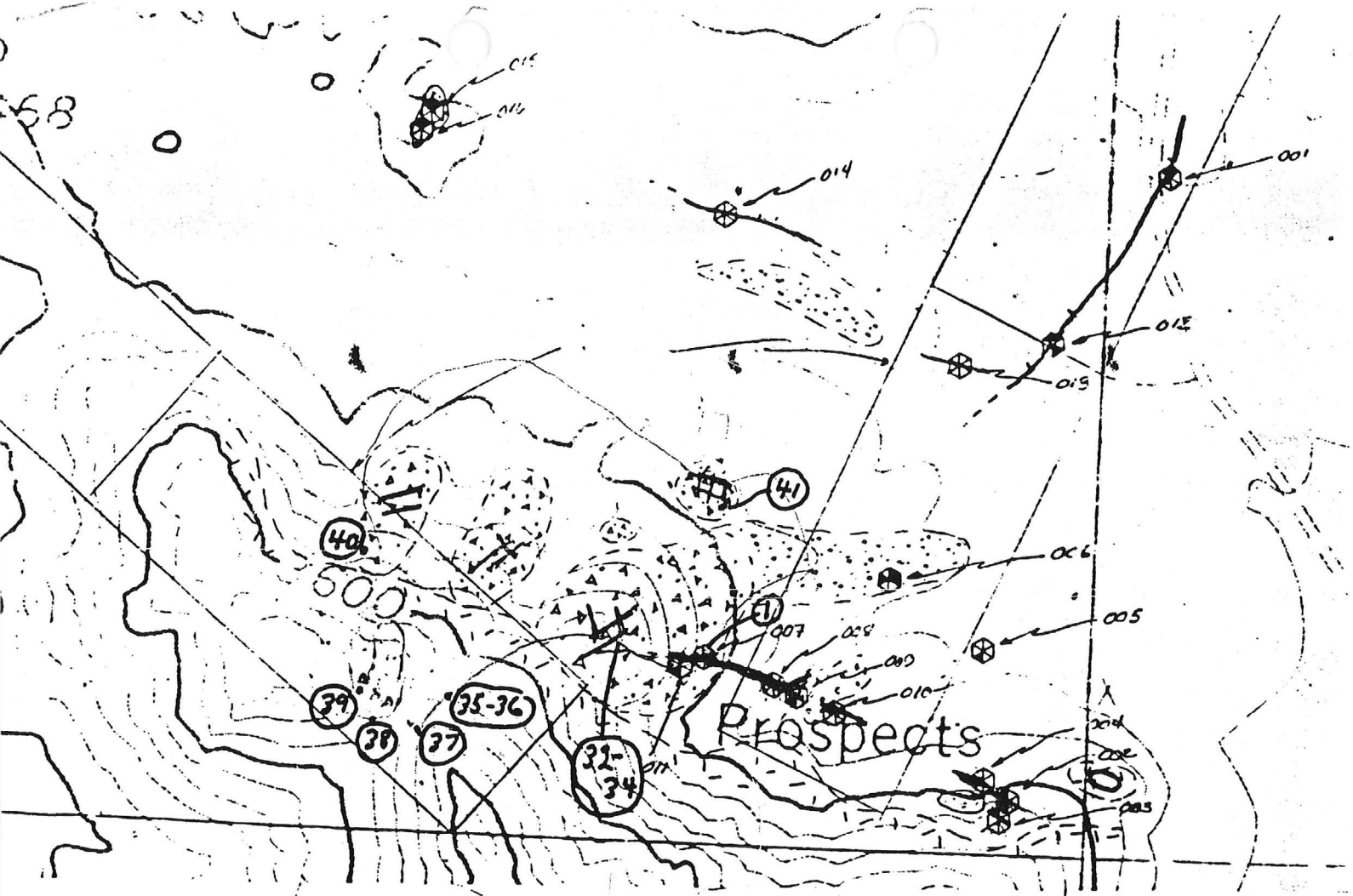
Sample #	Au ppb	Ag ppm	As ppm	Sb ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Mo ppm
G000331 (1)	6	< .1	7.5	14.4	110	122.6	7.6	18.9	13.6
G000332 (2)	11	.2	5.9	5.4	< 20	13.8	24.5	5.1	174.5
G000333 (3)	7	.2	28.1	53.3	20	36.9	7.9	6.1	8.9
G000334 (4)	5	.2	8.5	3.2	80	14.5	12.4	8.9	44.3
G000335 (5)	2	< .1	9.9	9.6	35	21.5	4.9	33.6	9.3
G000336 (6)	12	1.9	33.9	8.9	1120	43.8	5.3	12.2	299.1
G000337 (7)	3	.3	7.3	2.7	250	40.9	11.3	52.1	34.9
G000338 (8)	4	< .1	7.4	25.5	90	44.4	9.6	17.5	16.5
G000339 (9)	6	.3	2.9	2.6	20	7.5	6.3	10.8	7.9
G000340 (10)	7	.1	4.4	4.5	< 20	14.9	3.9	16.0	8.8
G000341 (11)	4	.2	3.9	4.6	20	55.6	27.4	10.5	205.4



Legend

(>0.01 ppm) Mo Cu (>100 ppm)
(>50 ppm) As Sb (>10 ppm)
(>10 ppm) Pb Hg (>.1 ppm)

(1) BHP samples

Breccias Features (w FeOx staining)

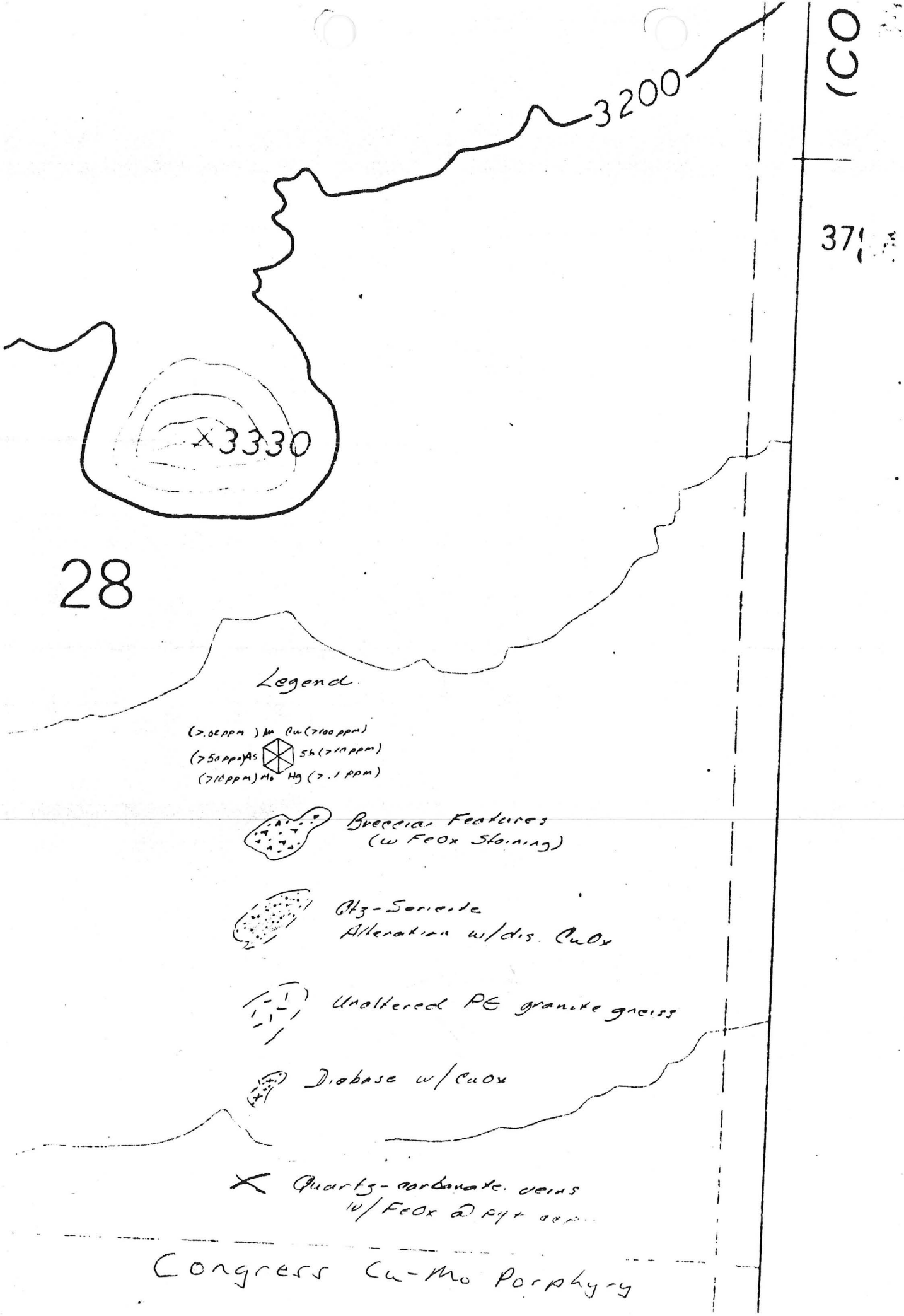
Qtz-Sericite Alteration w/dis CuOx

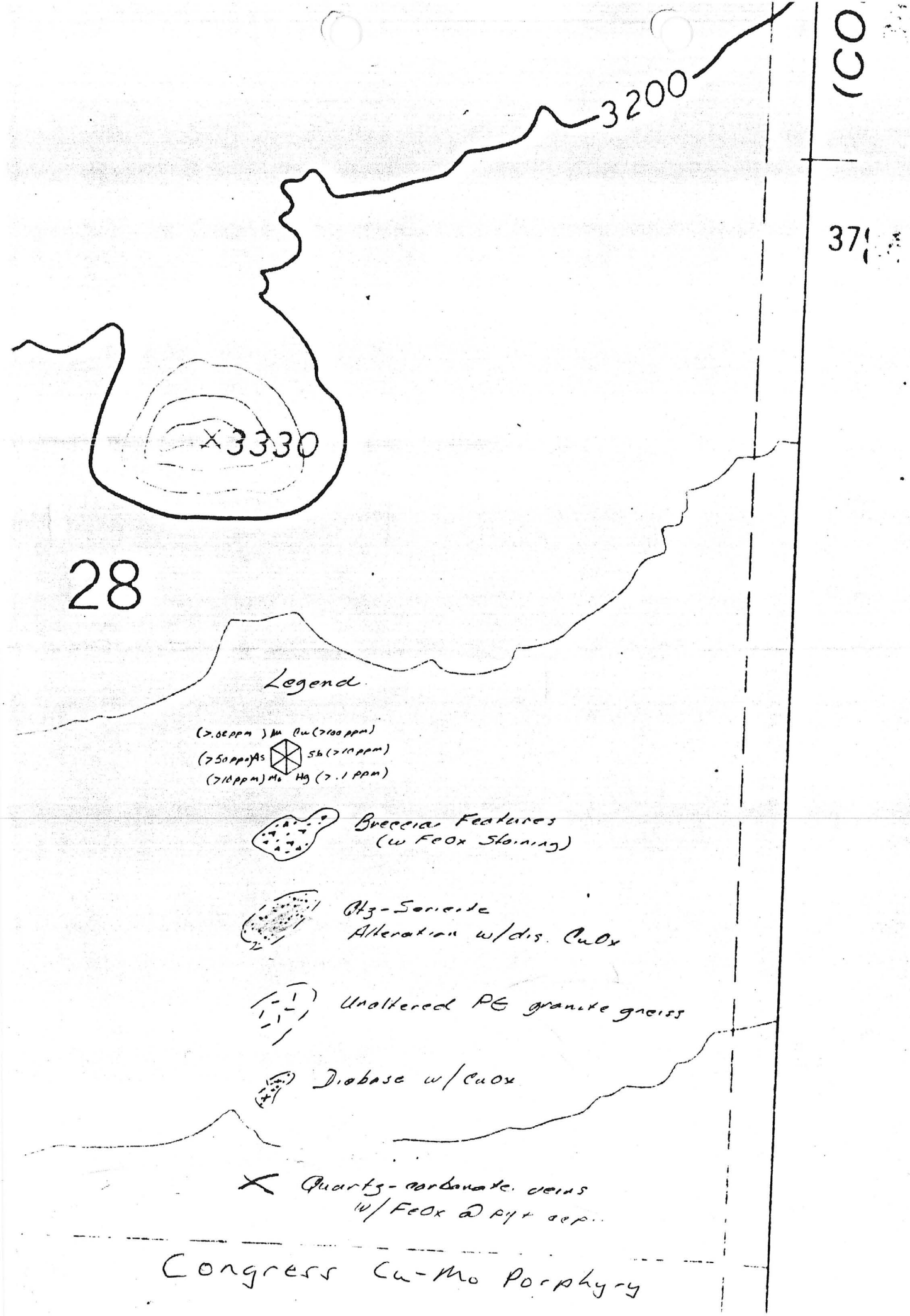
Unaltered PE granite gneiss

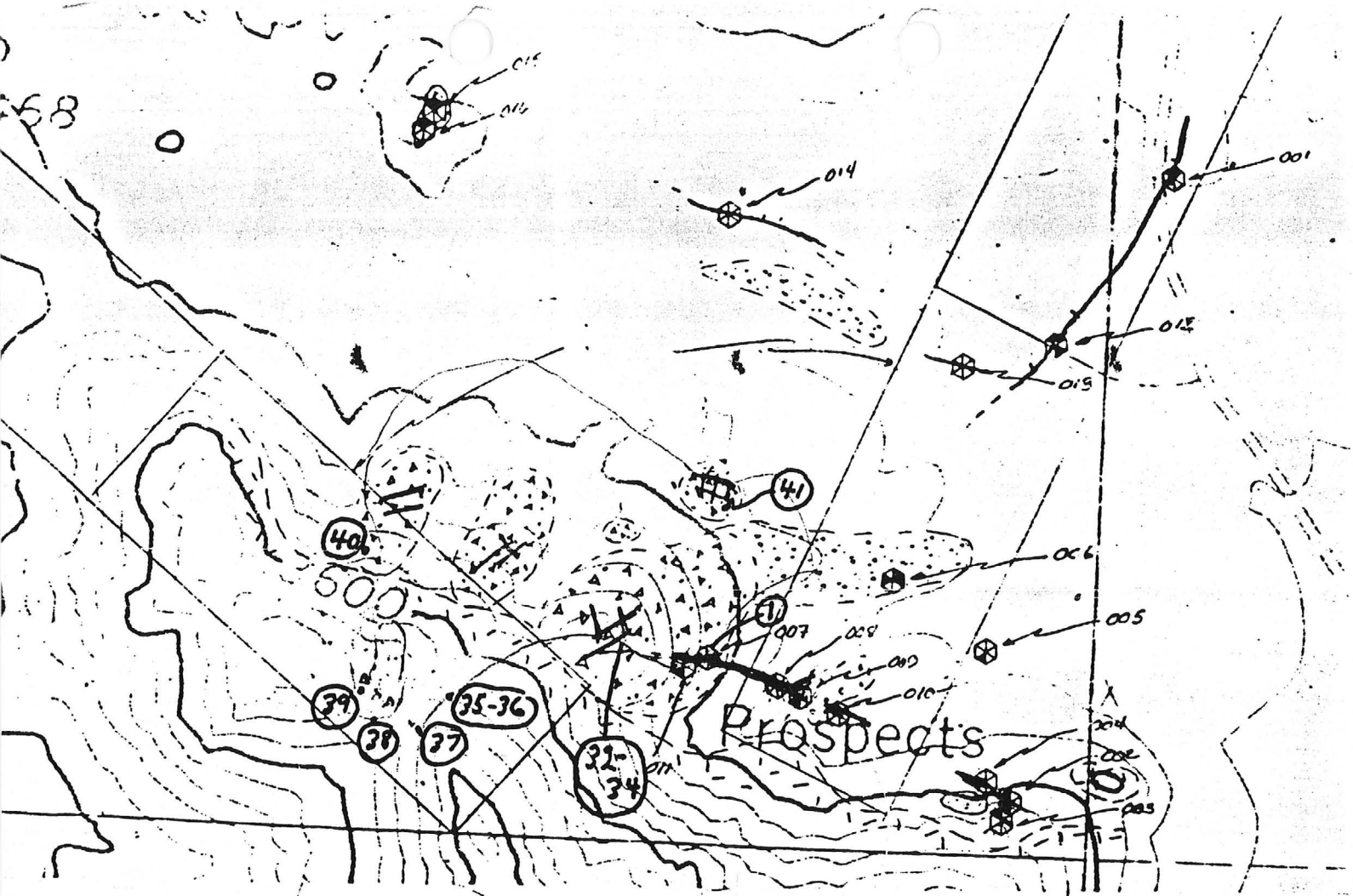
Diabase w/CuOx

Quartz-carbonate veins w/FeOx @ pyr sep

Congress Cu-Mo Porphyry


3200
3330
28
Legend
(>.05ppm) Au Cu (>100 ppm)
(>50ppm) As Sb (>10 ppm)
(>10ppm) Mo Hg (>.1 ppm)
Breccias Features (w FeOx Staining)
Qtz-Sericite Alteration w/dis. CuOx
Unaltered PE granite gneiss
Diabase w/CuOx
Quartz-carbonate veins w/FeOx @ Pyr
Congress Cu-Mo Porphyry


3200
3330
28
Legend
(>.05ppm) Au
Cu (>100 ppm)
(>50ppm) As
Sb (>10 ppm)
(>10ppm) Mo
Hg (>.1 ppm)
Breccia Features
(w FeOx Staining)
Qtz-Sericite
Alteration w/dis. CuOx
Unaltered PE granite gneiss
Diabase w/CuOx
Quartz-carbonate veins
w/FeOx @ pyr sep.
Congress Cu-Mo Porphyry



Legend

(>.05 ppm) Hg Cu (>100 ppm)
(>50 ppm) As Sb (>10 ppm)
(>10 ppm) Mo Hg (>.1 ppm)

① BHP samples

Breccia Features (w FeOx staining)

Qtz-Sericite Alteration w/dis CuOx

Unaltered PE granite gneiss

Diabase w/CuOx

Quartz-carbonate veins w/FeOx & pyr sep

Congress Cu-Mo Porphyry