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cc: MMG
RM
RL

Jacobs Assay Office
Registered Assayers, Estab. 1880
1435 S. 10Th Ave. Tucson, AZ 85713
Ph.(602)622-0813 Fax(602)622-0813

Cambior Exploration USA Inc.
230 S. Rock Blvd. #23
Reno, Nevada 89502-2345

June 14, 1993

Job Number: CAMB001 - 305 Submittal
Gold Coin Prospect
Pinal County AZ

CERTIFICATE OF ASSAY

Sample ID	Au Oz/Ton
32601	<0.001
32602	<0.001
32603	0.001
32604	<0.001
32605	0.001
32606	<0.001
32607	<0.001
32608	<0.001
32609	0.016
32610	0.020
32611	0.028
32612	0.020
32613	0.002
32614	0.008
32615	0.002
32616	0.001
32617	<0.001
32618	0.004
39477	0.001

6/14/93

2 Assay Ton Fire Assay

iPL
INTERNATIONAL PLASMA LABORATORY LTD.

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

CERTIFICATE OF ANALYSIS
iPL 93F2302

Report: 93F2302 R Cambior Exploration USA, Inc. Project: Jacobs 001

Sample Name	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
32601	8	227	7	10	1	1	<0.01	0.57	0.11	3.67	0.19	0.22	0.02	0.04
32602	12	251	15	15	1	1	<0.01	0.66	0.07	3.41	0.21	0.25	0.03	0.05
32603	44	579	6	87	1	3	0.01	1.47	0.07	5.7%	0.08	0.57	0.07	0.04
32604	9	163	7	20	1	<1	<0.01	0.54	0.05	1.85	0.02	0.20	0.04	0.01
32605	6	83	3	13	<1	<1	<0.01	0.24	0.04	1.79	0.02	0.27	0.04	0.03
32606	9	304	7	29	<1	1	<0.01	0.50	0.05	4.22	0.04	0.32	0.03	0.05
32607	10	130	7	18	1	1	<0.01	0.60	0.06	3.91	0.10	0.28	0.02	0.04
32608	47	645	11	22	1	2	<0.01	1.97	1.22	4.16	1.53	0.19	0.05	0.07
32609	22	138	4	42	1	1	<0.01	0.29	0.08	2.51	0.04	0.14	0.01	0.01
32610	21	562	4	16	<1	1	<0.01	0.37	0.12	3.38	0.03	0.18	0.01	0.04
32611	34	995	4	22	<1	1	<0.01	0.37	0.30	4.37	0.03	0.24	0.01	0.05
32612	38	302	6	13	1	<1	<0.01	0.32	0.04	3.00	0.03	0.18	0.01	0.03
32613	13	107	<2	14	<1	<1	<0.01	0.14	0.04	1.73	0.02	0.08	0.01	0.01
32614	23	589	5	13	1	1	<0.01	0.46	0.47	3.88	0.05	0.19	0.01	0.07
32615	20	394	4	10	1	1	<0.01	0.24	0.10	3.34	0.02	0.10	0.01	0.04
32616	71	34%	11	389	<1	1	0.01	0.27	4.01	6.6%	<0.01	0.09	0.03	<0.01
32617	33	1434	7	11	1	1	<0.01	0.41	0.15	3.93	0.06	0.20	0.02	0.03
32618	17	349	6	11	1	1	<0.01	0.20	0.03	2.23	0.02	0.11	0.02	0.01
39477	43	208	12	79	1	<1	<0.01	0.41	1.05	4.01	0.29	0.05	0.02	0.05
Minimum Detection	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	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

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

iPL
INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 93F2302

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cc: MMG
RM
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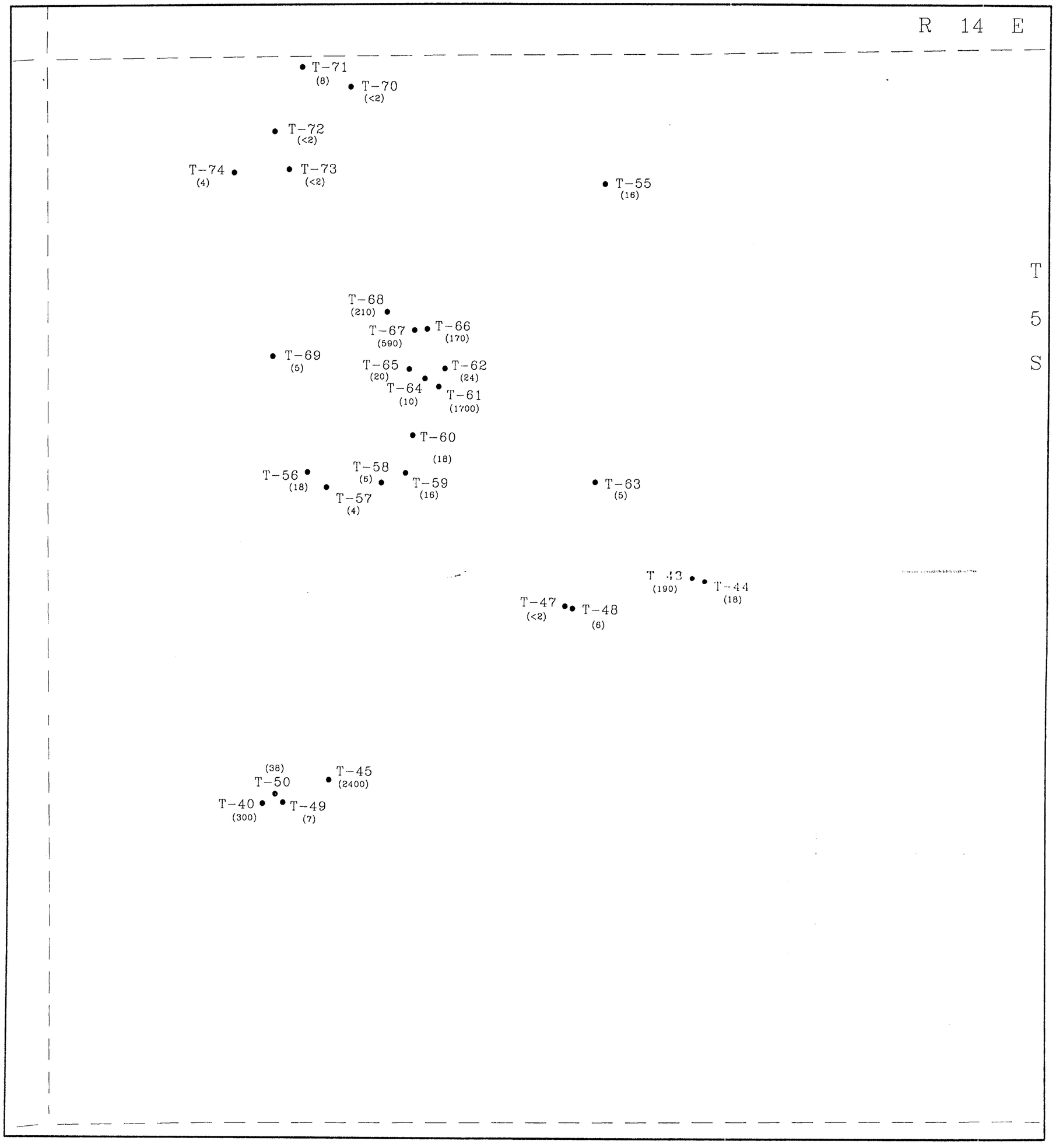
Report: 93F2302 R Cambior Exploration USA, Inc. Project: Jacobs 001 Page 1 of 1 Section 1 of 2

Sample Name	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	Ba ppm	W ppm	Cr ppm
32601	Pulp	<0.1	43	169	57	5	<5	<3	8	<10	<2	<0.1	8	10	69	<5	9
32602	Pulp	<0.1	52	93	44	11	<5	<3	6	<10	<2	<0.1	6	9	69	<5	7
32603	Pulp	0.4	36	146	88	38	<5	<3	11	<10	<2	<0.1	4	11	107	<5	16
32604	Pulp	0.8	16	70	13	6	<5	<3	9	<10	<2	0.2	3	5	34	<5	8
32605	Pulp	8.5	28	228	18	51	7	<3	39	<10	<2	<0.1	1	6	52	<5	10
32606	Pulp	0.3	29	132	304	34	<5	<3	6	<10	<2	<0.1	3	7	57	<5	5
32607	Pulp	0.2	30	36	12	7	<5	<3	4	<10	<2	<0.1	8	8	139	<5	6
32608	Pulp	<0.1	20	40	29	5	<5	<3	3	<10	<2	<0.1	12	12	85	<5	15
32609	Pulp	12.8	43	77	48	46	24	<3	12	<10	<2	0.1	2	6	47	<5	14
32610	Pulp	42.5	40	122	74	45	11	<3	8	<10	<2	<0.1	5	7	163	<5	11
32611	Pulp	7.6	44	71	84	55	8	<3	10	<10	<2	<0.1	16	14	78	<5	17
32612	Pulp	5.9	42	135	232	63	9	<3	7	<10	<2	0.1	6	9	40	<5	36
32613	Pulp	20.3	34	104	18	37	11	<3	17	<10	<2	<0.1	1	7	378	<5	16
32614	Pulp	0.2	32	44	76	68	7	<3	5	<10	<2	0.1	10	9	115	<5	5
32615	Pulp	1.9	44	101	253	108	23	<3	16	<10	<2	0.1	5	8	57	<5	9
32616	Pulp	29.8	52	3229	1513	440	10	16	28	<10	<2	0.4	39	24	1.5%	<5	48
32617	Pulp	0.4	46	26	59	78	5	<3	7	<10	<2	0.1	10	8	131	<5	6
32618	Pulp	2.8	23	51	34	17	6	<3	5	<10	<2	<0.1	3	5	65	<5	18
39477	Pulp	<0.1	175	21	14	8	<5	<3	194	<10	<2	<0.1	8	18	79	<5	15
Minimum Detection		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1
Maximum Detection		100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	10000.0	10000	10000	10000	1000	10000
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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



EXPLANATION

T-55 Sample with Sample Number

(300) Au (ppb)

NORTH

0 400 800 1200

FEET

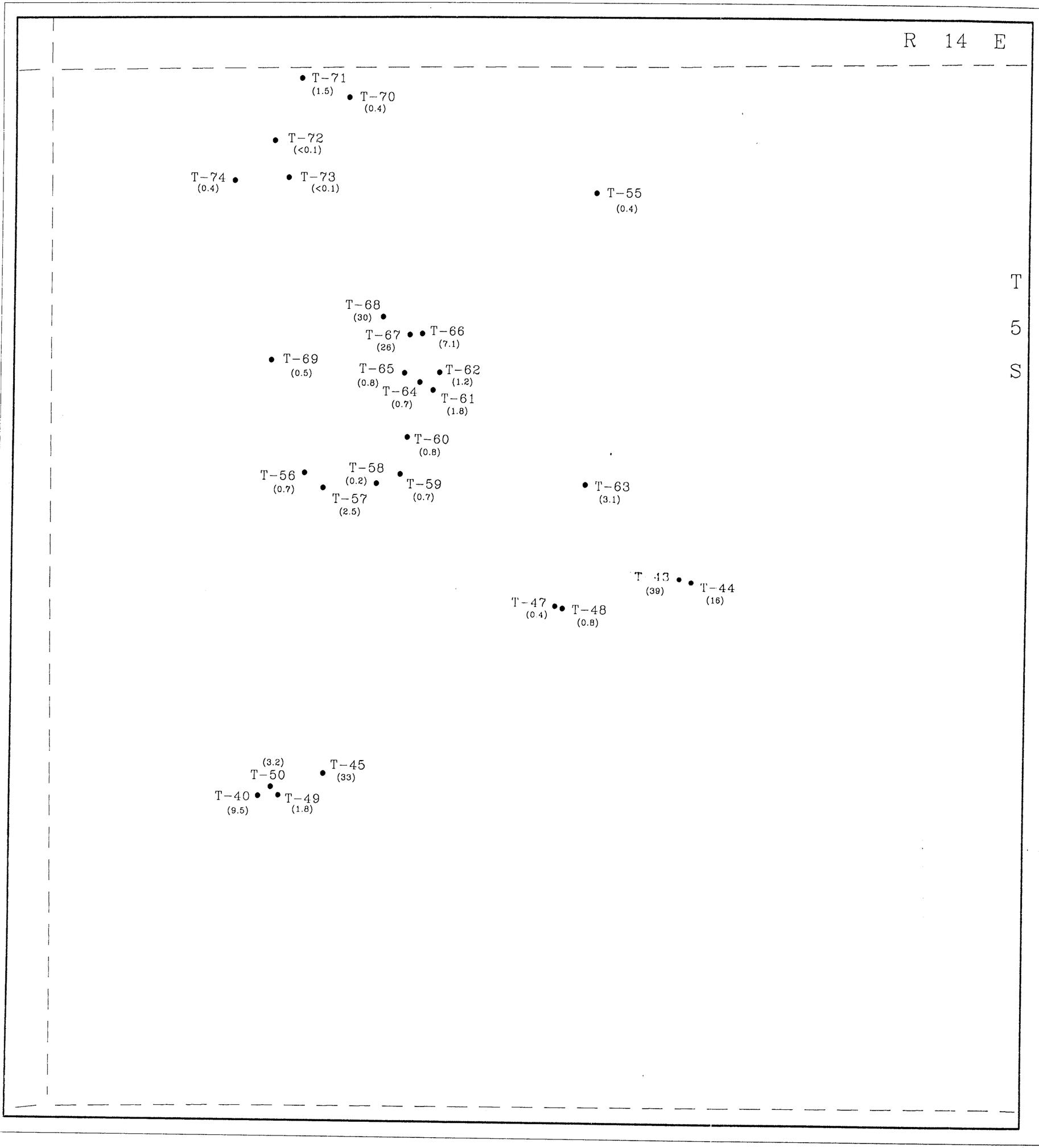
GILA EXPLORATION

GOLD COIN PROSPECT
Au GEOCHEMISTRY

SECTION 8 - RANGE 14 EAST/TOWNSHIP 5 SOUTH
PINAL COUNTY, ARIZONA

J. S. Walker
JANUARY 1993

FILE: AUCOIN-8



EXPLANATION

T-55 Sample with Sample Number

(33) Ag (ppm)

NORTH

0 400 800 1200

FEET

GILA EXPLORATION

GOLD COIN PROSPECT
Ag GEOCHEMISTRY

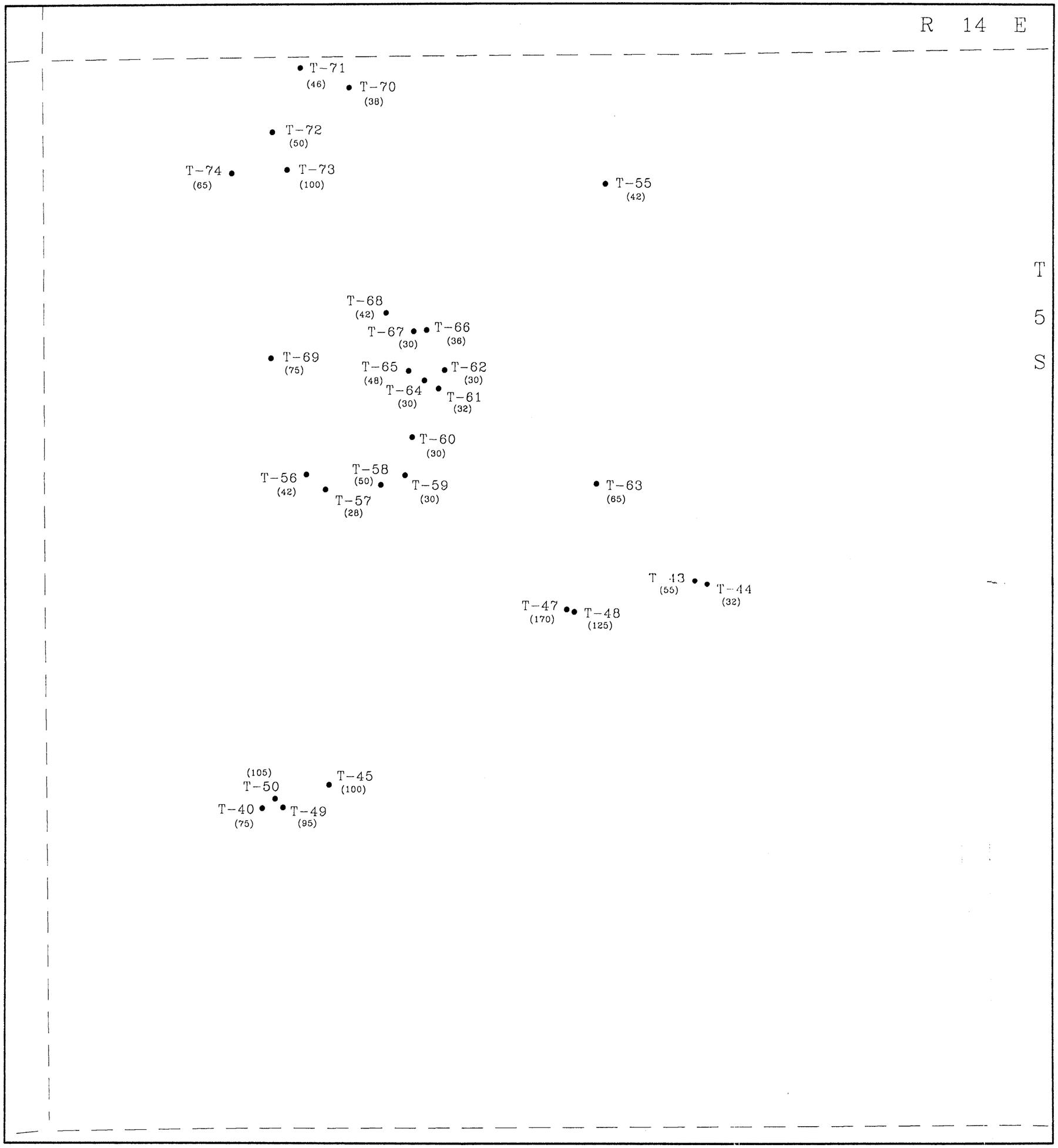
SECTION 8 - RANGE 14 EAST/TOWNSHIP 5 SOUTH

PINAL COUNTY, ARIZONA

J. S. Walker

JANUARY 1993

FILE: AUCOIN-7



EXPLANATION

T-55 Sample with Sample Number

(32) Cu (ppm)

NORTH

0 400 800 1200

FEET

GILA EXPLORATION

GOLD COIN PROSPECT
Cu GEOCHEMISTRY

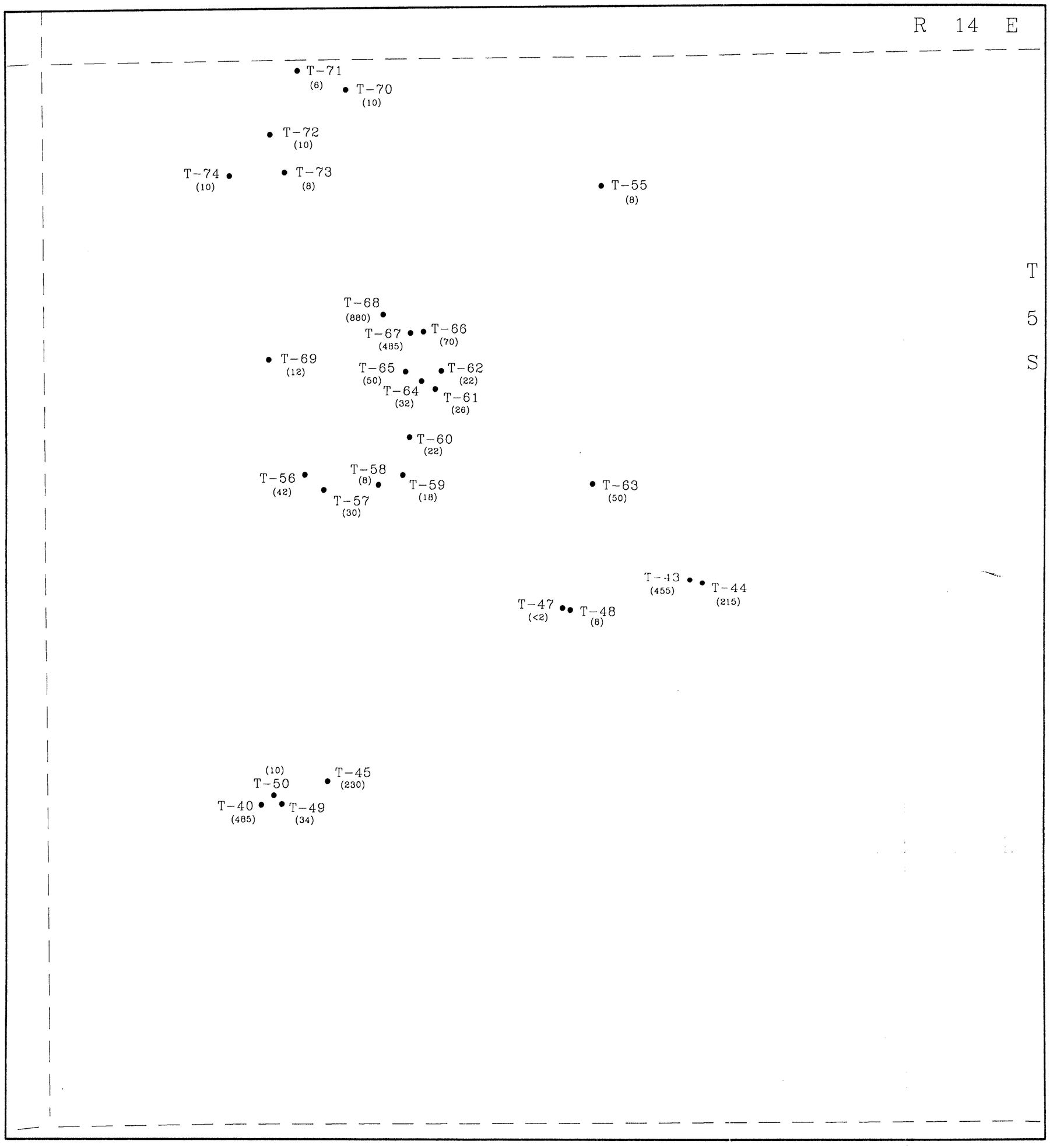
SECTION 8 - RANGE 14 EAST/TOWNSHIP 5 SOUTH

PINAL COUNTY, ARIZONA

J. S. Walker

JANUARY 1993

FILE: AUCOIN-8



EXPLANATION

T-55 Sample with Sample Number

(50) Pb (ppm)

NORTH

0 400 800 1200

FEET

GILA EXPLORATION

GOLD COIN PROSPECT
Pb GEOCHEMISTRY

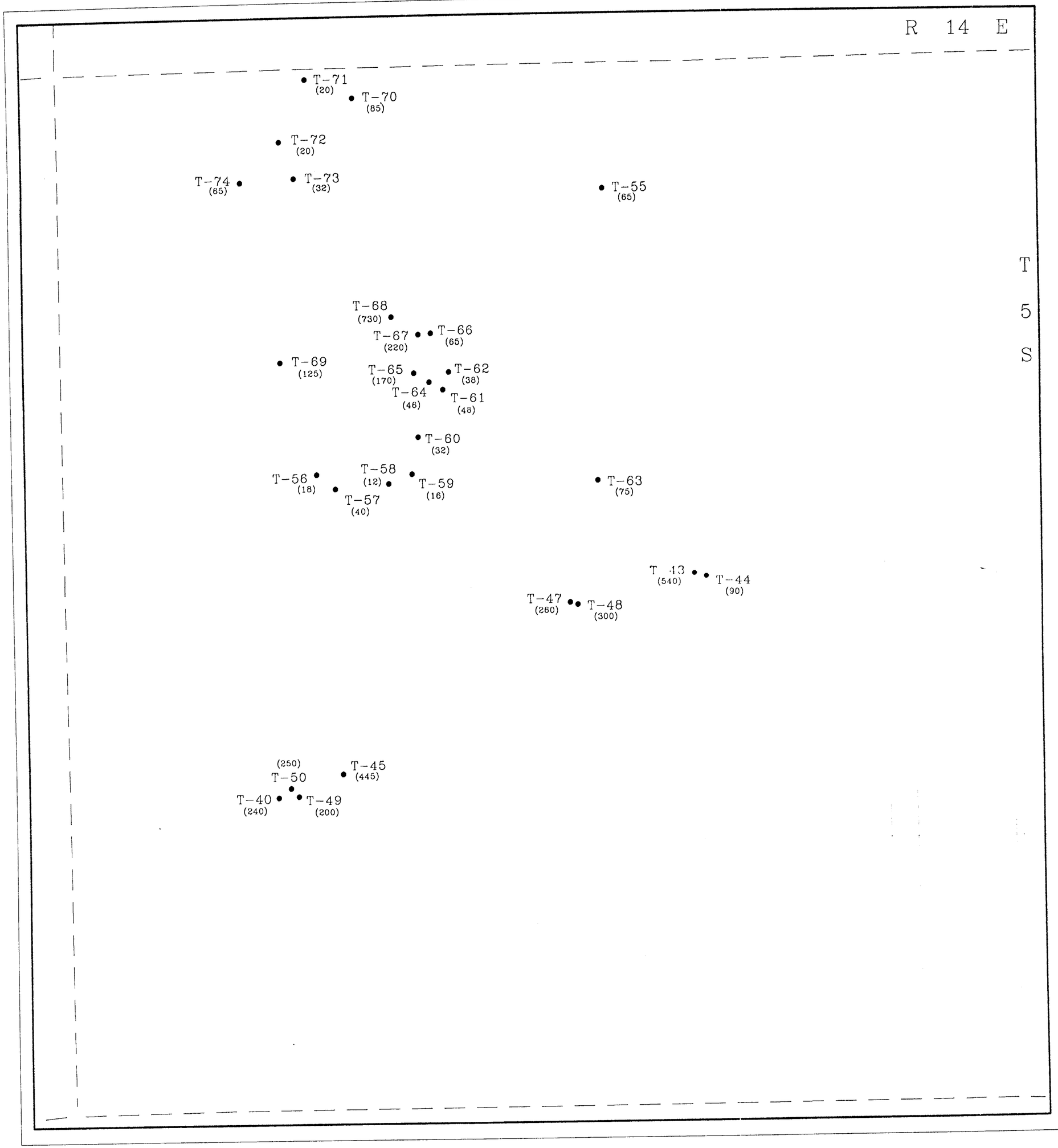
SECTION 8 - RANGE 14 EAST/TOWNSHIP 5 SOUTH

PINAL COUNTY, ARIZONA

J. S. Walker

JANUARY 1993

FILE: AUCOIN-9



EXPLANATION

● T-55 Sample with Sample Number

(100) Zn (ppm)

NORTH

0 400 800 1200

FEET

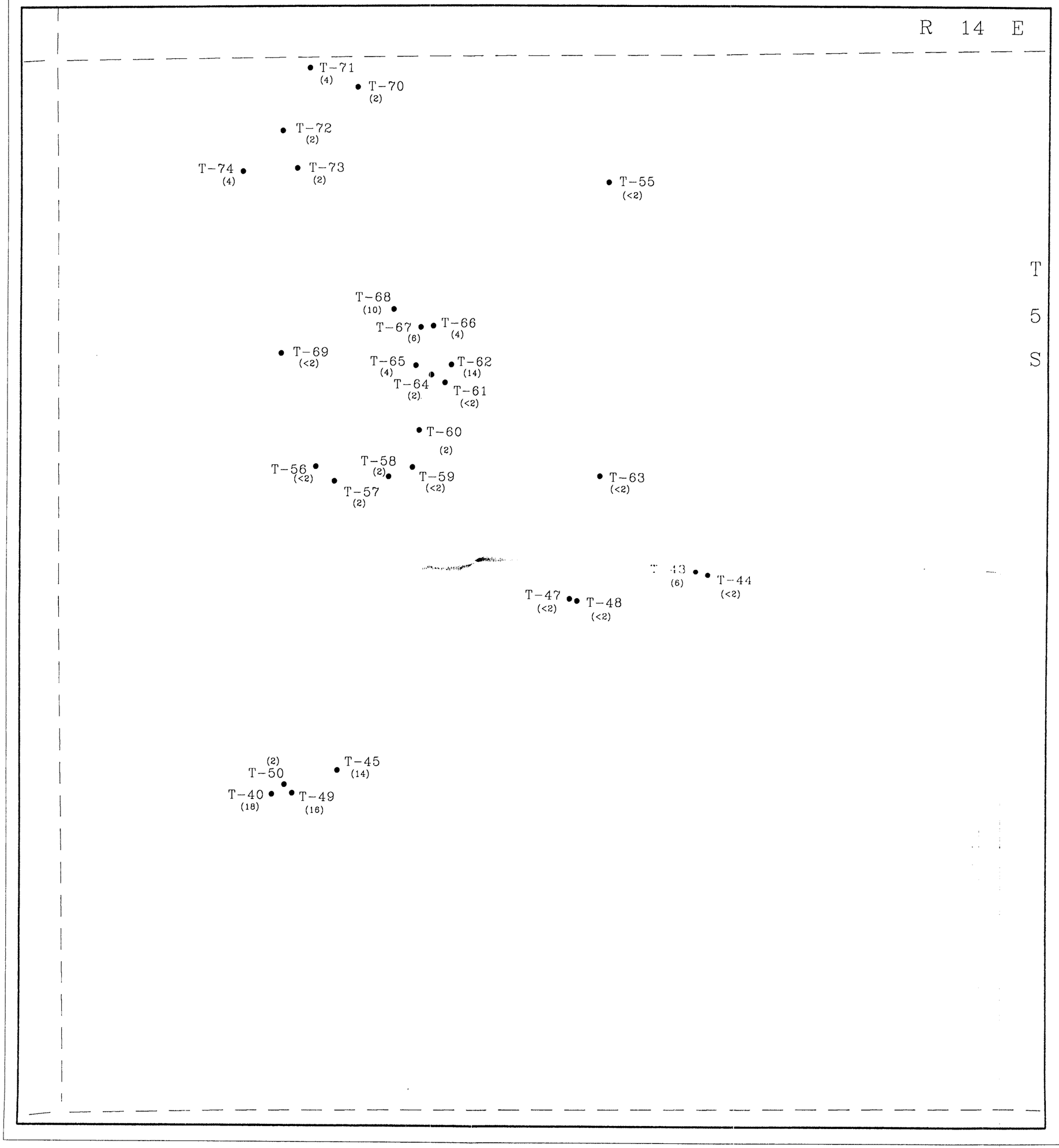
GILA EXPLORATION

GOLD COIN PROSPECT
Zn GEOCHEMISTRY

SECTION 8 - RANGE 14 EAST/TOWNSHIP 5 SOUTH
PINAL COUNTY, ARIZONA

J. S. Walker
JANUARY 1993

FILE: AUCOIN10



EXPLANATION

● T-55 Sample with Sample Number

(2) Mo (ppm)

NORTH

0 400 800 1200

FEET

GILA EXPLORATION

GOLD COIN PROSPECT
Mo GEOCHEMISTRY

SECTION 8 - RANGE 14 EAST/TOWNSHIP 5 SOUTH

PINAL COUNTY, ARIZONA

J. S. Walker

JANUARY 1993

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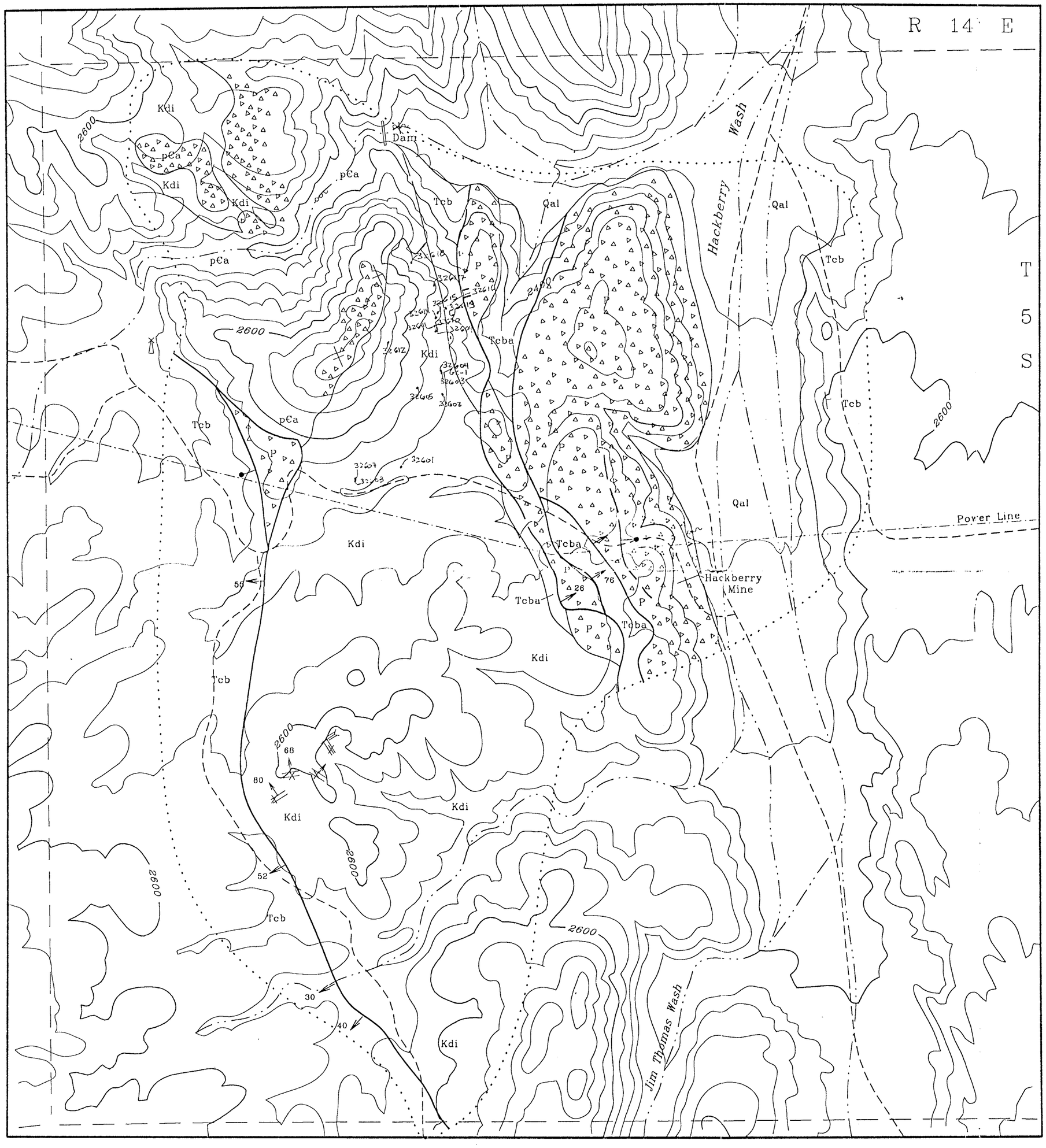

EXPLANATION

Qal	Quaternary Alluvium
Tcb / Tcba	Cloudburst Formation Tcba = Andesite Unit
Kdi	Laramide Diorite/Quartz Diorite
P	Paleozoic Sediments
pЄa	Apache Group Sediments and Diabase
△△△△	Breccia

NORTH

0 400 800 1200

FEET

GILA EXPLORATION, L.C.

GOLD COIN PROSPECT
GEOLOGIC SKETCH MAP

SECTION 8 – RANGE 14 EAST/TOWNSHIP 5 SOUTH

PINAL COUNTY, ARIZONA

J. S. Walker

FEBRUARY 1993

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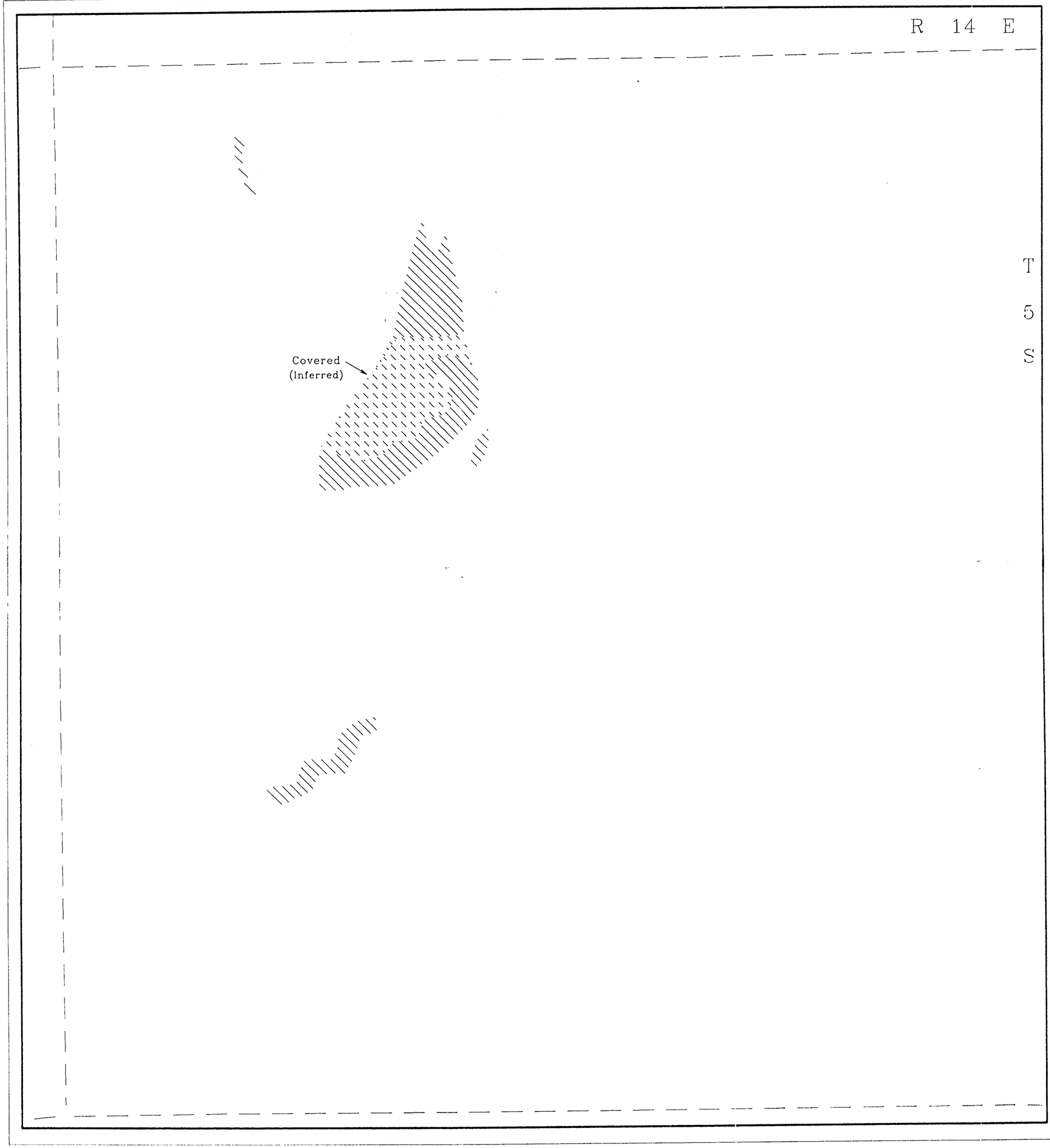

EXPLANATION

Area of Argillically Altered
Laramide Diorite and Quartz Diorite

NORTH

0 400 800 1200

FEET

GILA EXPLORATION

GOLD COIN PROSPECT
ARGILLIC ALTERATION

SECTION 8 - RANGE 14 EAST/TOWNSHIP 5 SOUTH

PINAL COUNTY, ARIZONA

J. S. Walker

JANUARY 1993

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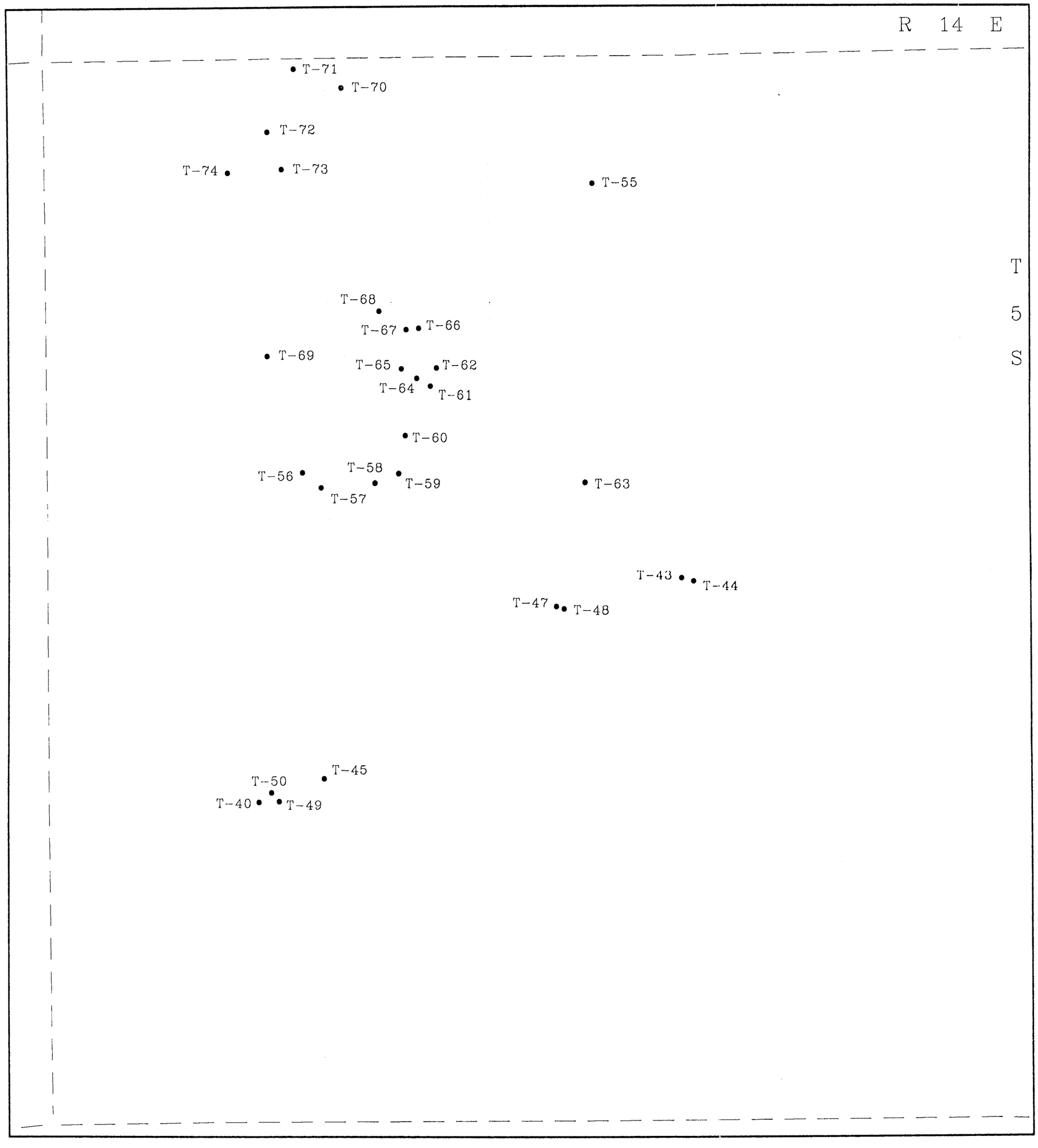

EXPLANATION

T-55 Sample with Sample Number

NORTH

0 400 800 1200

FEET

GILA EXPLORATION

GOLD COIN PROSPECT SAMPLE LOCATIONS

SECTION 8 - RANGE 14 EAST/TOWNSHIP 5 SOUTH

PINAL COUNTY, ARIZONA

J. S. Walker

JANUARY 1993

FILE: AUCOIN-2

GILA EXPLORATION, L. C.

GOLD COIN PROSPECT

PINAL COUNTY, ARIZONA

JAMES S. WALKER

FEBRUARY, 1993

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TEXT

The Gold Coin Prospect	Page 1

ILLUSTRATIONS

Schematic E-W cross-section through the Gold Coin prospect during Laramide time.	Following Text
Schematic geologic map of the Gold Coin prospect showing target areas.	"

PLATES

- Geologic Sketch Map, 1" = 400'	In Pocket
- Argillic Alteration; plan, 1" = 400'	"
- Au Geochemistry; plan, 1" = 400'	"
- Ag Geochemistry; plan, 1" = 400'	"
- Cu Geochemistry; plan, 1" = 400'	"
- Pb Geochemistry; plan, 1" = 400'	"
- Zn Geochemistry; plan, 1" = 400'	"
- Mo Geochemistry; plan, 1" = 400'	"

THE GOLD COIN PROSPECT

PINAL COUNTY, ARIZONA

The Gold Coin Prospect is located in sections 5, 6, 7 and 8, T5S, R14E, 2.5 miles south of Kearny, Arizona. Core areas of the prospect are held by Gila Exploration through state prospecting permit 08-52653-00 covering the NW1/4 and W1/2NE1/4 of section 8, and under the Gold Coin 1-6 federal lode mining claims in sections 7 and 8.

Gold/silver mineralization is hosted by quartz stockwork and quartz veins in argillized quartz diorite of Laramide age. The quartz diorite intrudes Precambrian Oracle Granite and Apache group sediments and diabase. Units present within the Apache group are Pioneer Formation sandstones and conglomerate, Dripping Springs quartzite and Mescal limestone. Veins and stockwork contain limonite after pyrite, with sulfide locally preserved in outcrop. Unaltered sediments of probable Oligocene age lie in depositional contact with the quartz diorite, making a Laramide age for mineralization plausible. The dip of these sediments indicate a minimum of seventy degrees of post-Laramide tilting to the east. The strongly porphyritic nature of the quartz diorite and open-space in veins indicate an epithermal environment for mineralization.

The primary target is a zone of quartz stockwork hosted gold/silver mineralization associated with moderately to strongly argillized quartz diorite in the NW1/4 of section 8. The outcrop of this zone is 1200 feet long and 600 feet wide at its widest point. Rock chip samples from this zone have yielded up to 1.7 ppm gold and up to 30 ppm silver. Other possible targets include breccias and replacements in the Apache group rocks near intrusive contacts as well as blind mineralized intrusive zones.

A conceptual porphyry style gold/silver/base metal target is centered on the S1/2 of section 7 and SW1/4 of section 8, beneath a low- to moderate-angle normal fault placing

post-mineral sediments over quartz diorite. This target represents the deeper, mesothermal portion of the tilted hydrothermal system. Evidence supporting this target are 1) widespread, weak propylitic alteration of the quartz diorite, and 2) the presence of gold-silver-lead-zinc-molybdenum-copper anomalous quartz veins with associated strong argillic alteration in the SW1/4 of section 8.

James S. Walker

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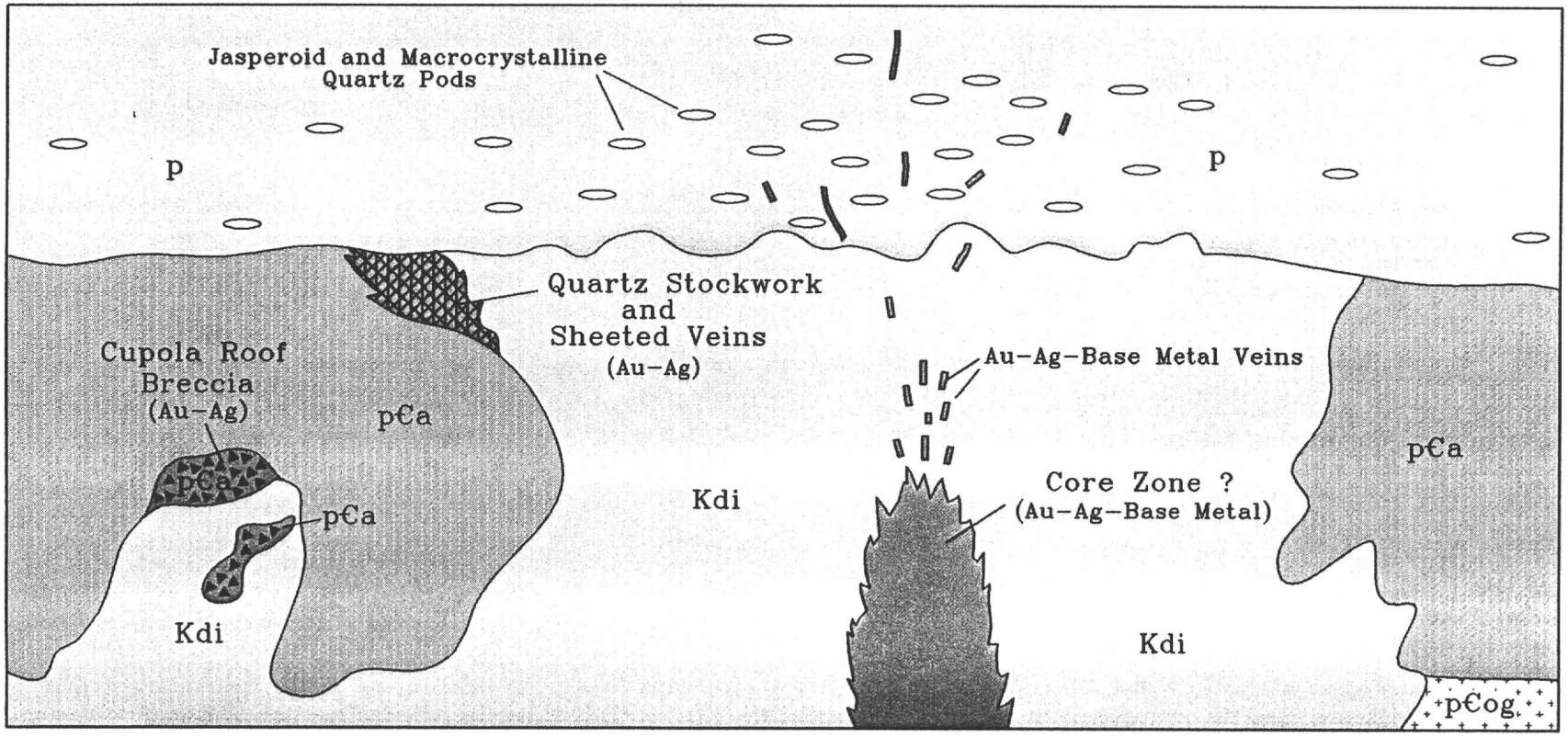


NO SCALE

Cupola Roof Breccia

Kdi — Laramide Diorite/ Quartz Diorite

p — Paleozoic Sediments

p€a — Apache Group Sediments and Diabase

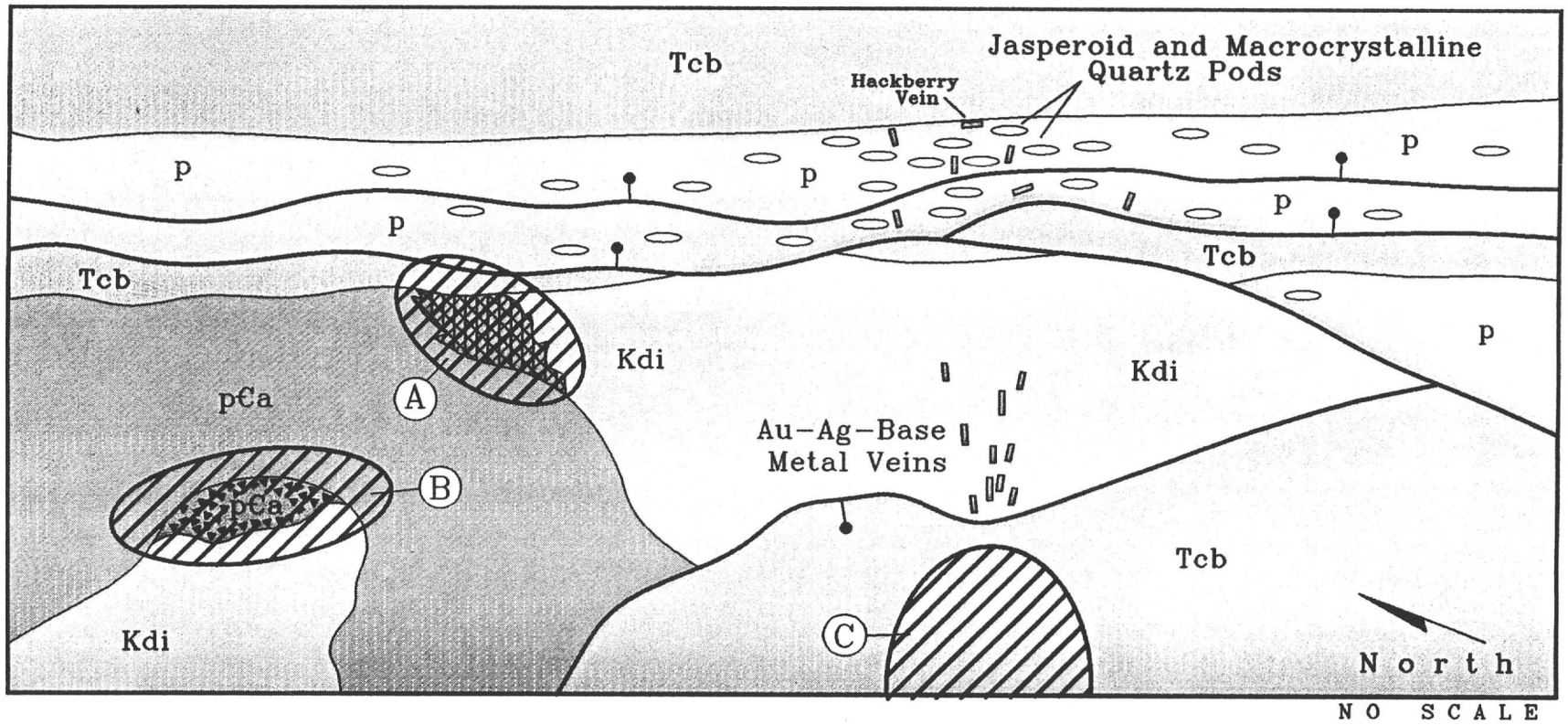
p€og — Oracle Granite

GILA EXPLORATION, L.C.

Schematic E-W Cross-Section
Through The
Gold Coin Prospect
During Laramide Time
Pinal County, Arizona

J.S.W.
February 1993

GC



PRIMARY TARGETS

Tcb	Cloudburst Formation
Kdi	Laramide Diorite/ Quartz Diorite
P	Paleozoic Sediments
p€a	Apache Group Sediments and Diabase

(A) Stockwork and Sheeted Veins

(B) Cupola Roof Breccia and Intrusive –and Sediment Hosted Stockwork, Veins and Replacements

(C) Subfault Au–Ag–Base Metal Core Zone?

GILA EXPLORATION, L.C.

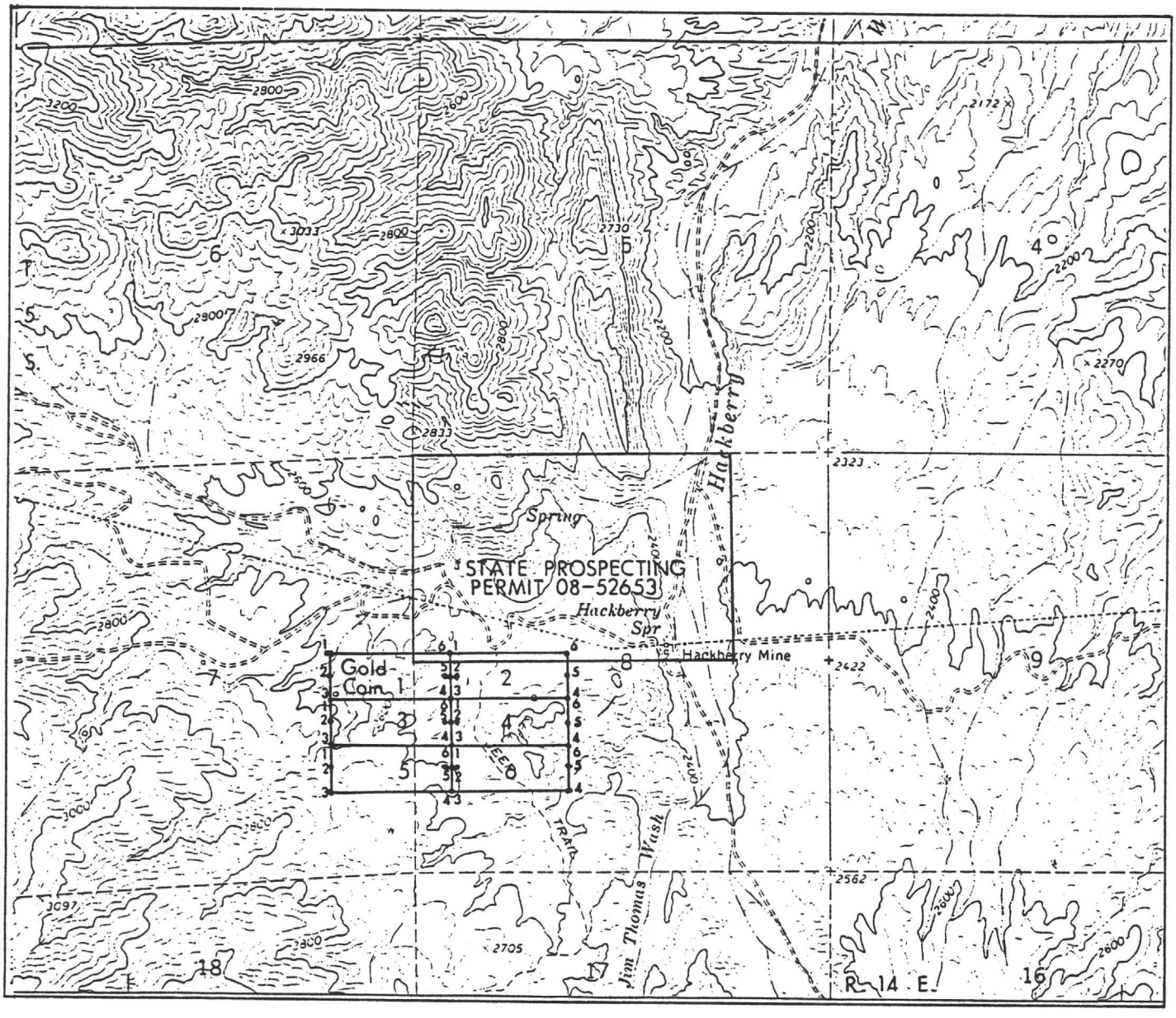
Schematic Geologic Map Of The Gold Coin Prospect Showing Target Areas

Pinal County, Arizona

J.S.W.

February 1993

GC



North

0 2000 4000

FEET Scale 1 : 24,000

Gila Exploration, L.C.

GOLD COIN PROSPECT

LAND

Township 5 South, Range 14 East, G&SRM

Gila County, Arizona

February 1993

1' arn; 'Z 7½' — po

JAMES S WALKER

Gold Coin Prospect

Skyline Labs

					Au	Ag	Cu	Pb	Zn	Mo
								ppm		
T-43	5S/14E	sec 8	SW NE	15' chip. Pod of silicified l.s. bx [redacted], approx 45x50' in size. Spotty, dissem py, milky qtz and silicified rock flour matrix	0.19	39	55	455	540	6
T-44	"	"	"	3' chip. Flat bx. Silicified [redacted] ls.	.018	16	32	215	90	<2
T-45	"	"	NW SW	7' chip across hi ∡ qtz vn zone in seric/clay altered qtz diorite N 15°W strike. Fresh py/aspy in vns	2.4	33	100	230	445	14
T-46	"	"	NW SW	15' chip across road. seric/clay altered diorite w/ mod abundant qtz vns. Py → lim.	0.3	9.5	75	485	240	18
T-47	"		NE SW Sec 8	6' chip in wit. Andesite bx in footwall of low ∡ fault Clay/chl/hem mtx/ propylitized andesite frags.	<.002	0.8	170	<2	260	<2
T-48	"		NE SW Sec 8	Chip represents about 5' structural thickness. SS bx. Variably hematitic sand mtx w/ spotty oxidized py. Hangingwall to low ∡ fault	.006	0.4	125	8	300	<2
T-49	"		NW SW Sec 8	5' chip across structure 0.25 to 5" thick qtz vns in argilically alt'd diorite Oxidized py in vns and wall rock.	.07	1.8	95	34	200	16
T-50	"		NW SW Sec 8	2' chip. Small prospect pit 40' N of T-49. Argillically alt'd diorite. Spotty, oxidized py along fracs. Mod goe/jaros	.038	3.2	105	10	250	2
T-55	5S/14E	Sec 8	NW NE	65' chip across strike of bx'd ss. Wk mottled jaros/hem.	.016	0.4	42	8	65	<2
T-56	5S/14E	"	SW NW	40'x40' chip. Bx'd ss, locally gossanous.	.018	0.7	42	10	18	<2
T-57	"	"	" "	35' chip along and in road. Strongly argillized intrusive. Locally strong goe/hem/jaros after py? spotty qtz stockwork	.04	2.5	28	30	40	6
T-58	"	"	SE NW	25' chip, strongly argillized qtz diorite. Local bx. Spotty, dusky grey qtz stockwork. Abund py casts. Mod lim in casts & fracs	.006	0.2	50	8	12	2
T-59	"	"	SE NW	8' chip. Bx'd, argillized qtz diorite. Dusky grey qtz stockwork Mod abund lim after sulfide.	.016	0.7	30	18	16	<2
T-60	"	"	" "	12' chip; Bxd, argillized qtz diorite Dusky grey qtz stockwork. Abund lim after sulfide	.018	0.8	30	22	32	2
T-61	"	"	" "	20' chip. Argillically alt'd dior porph w/ abund dissem py; cubes (oxidized) up to ¼". Spotty qtz vns. Wk to mod lim in fracs	1.7	1.8	32	26	48	<2
T-62	"	"	" "	10' chip. Argillized dior porph. Mod abund milky qtz veins. py casts	.024	1.2	30	22	38	14
T-63	"	"	SW NE	15'x30' chip (15' = strat thickness). Bx'd jasperoid lenses in bx'd Paleozoic limestone. Local boxwork after py. Jasperoid ≈ 5% of rock.	.005	3.1	65	50	75	<2
T-64	"	"	SE NW	40' chip. Argillized qtz-diorite. Locally silicified? Mod abund lim after py. Sparse, spotty drusy to massive qtz vns w/ oxidized py.	.010	0.7	30	32	46	2
T-65	"	"	" "	20' chip. Argillized qtz-diorite Moderately strong lim after py Spotty, sparse qtz vns.	.020	0.8	48	50	170	4

K-arm, .42 7½ ^lad

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		Au	Ag	Cu (ppm)	Pb	Zn	Mo
T-42 4S/13E sec 1 NW NE	30' chip, Highway roadcut. Oracle Granite. wk to moderate lim in fracs. Sparse py (oxidized).	.01	0.2	60	22	46	<2
Gold Coin Prospect							
T-66 5S/14E sec 8 NE NW	25' chip. Argillized qtz diorite. Spotty drusy qtz vns. wk to moderate lim after py. Moderately fractured. Sl across NE shear zone	0.17	7.1	36	70	65	4
T-67 5S/14E " " " "	5' chip across E-W/vertical qtz vn/bx. Drusy to massive qtz. Sparse to mod abundant lim after pyrite.	0.59	26	30	485	220	6
T-68 5S/14E " " " "	15' chip. Strongly argillized qtz diorite. Strong qtz stockwork. Abund, dissem + vn py (oxidized)	0.21	30	42	880	730	10
T-69 " " " " "	35' chip across stratigraphy. sltst + fg ss. silicified? Spotty vlts w/ oxidized py	.005	0.5	75	12	125	<2
T-70 5S/14E " " NW NW	15' chip across E-W/vertical shear zone cutting Mescal limestone. Strong silicification. Pyrite pseuds (lim) in fracs.	<.002	0.4	38	10	85	2
T-71 5S/14E " " " "	10' chip across vertical N-S striking bedding. silicified LS. 2-10% py in vlts, dissem and locally replacing thin bedding lamellae	.008	1.5	46	6	20	4
T-72 " " " " " "	30' chip. Strongly fractured to brecciated sltstn and silicified limestone. 1-4% py originally, now leached. (Dissem, vn, and frac fill) Sparse qtz veins.	<.002	<0.1	50	10	20	2
T-73 " " " " " "	25'x25' chip. Ox'd sltstn and fg ss. Abund lim after py Weak to moderately strong	<.002	<0.1	100	8	32	2
T-74 " " " " " "	10' chip. Argillized diorite and silicified sltstn. Abund lim after py (Dissem and in fracs).	.004	0.4	65	10	65	4