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Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
http://www.azgs.az.gov
inquiries@azgs.az.gov

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Aero Geology & Engineering Services

"WORLD COVERAGE"

R. E. MIERITZ, REG'D. ENG., PRINCIPAL EXECUTIVE

[redacted].

526 W. ROOSEVELT PHOENIX, ARIZONA

Phone [redacted] AL 2-8396

SURVEYING
AERIAL PHOTO-TOPOGRAPHY
AERIAL MAGNETOMETER SURVEYS
HELICOPTER GEOLOGICAL MAPPING
GEO-CHEMICAL SURVEYS

PETROLEUM GEOLOGY
MINERAL GEOLOGY
MINING
EXAMINATIONS
EXPLORATION

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MINERAL GEOLOGY
MINING
EXAMINATIONS
EXPLORATION

[redacted]
526 W. ROOSEVELT PHOENIX, ARIZONA

Phone [redacted]
AL 2-8396
AM. 4-0621

5614 North 7th Street

May 23, 1962

Cr 7-5070

Mrs. George A. Greenlee
4148 North 33rd Street
Phoenix, Arizona.

Dear Mrs. Greenlee:

At your request and in your company I personally visited the Lydia-Jessica Mining claims in Gila County, Arizona, wholly and singly owned and explored by your late husband, George A. Greenlee. The purpose of the brief examination was to determine the mineral potential, if any, of the property.

As a result of this examination and a review of the geologic conditions within the property limits, the writer concludes that the property should be sold prior to September 1, 1962 for what it would bring, or if unsold at that time, then the 25 unpatented lode claims should be dropped as they warrant no further expenditures considered within the realm of an individual.

Twenty five standard lode claims, held by right of location, comprise the property known as the Lydia Mining Company property. Ten of the claims are identified as Jessica # 1-10 whereas the remainder are known as Lydia #1-15. The property is situated some 9 miles by road south from a point on U. S. Highway 60-70-80 identified as the Castle Dome junction.

The geologic complex within the property is one of Pre-Cambrian granite, the Pinal Schist and a Createous (?) diorite. Numerous small iron stained outcrops were observed in the granite and Schist and many were examined, however, their importance is negligible since there is little evidence of major, strong structures; thus economic mineralization is not suspected. In some instances, development as adits, etc, of some of the iron stained areas were observed and in all instances only weak copper as oxides and sulphides and gold mineralization was observed. The strength (width and length) of mineralization is very weak, viz, the width being seldom more than two feet and length

not more than 10 to 15 feet. This type of mineralization would not permit economic development or operation.

The property is developed by three principal recent workings as adits, etc and several older adits which were not possible to examine because of caving conditions. The three principal workings were examined. In two cases mineralization was observed in weak structures in the Schist. The most westerly development was completed as an adit on a weak structure containing sugary quartz and limonitic iron as well as possibly some gold mineralization. This structure had an east-west strike with a steep dip to the north. The second development, most easterly, was completed as an adit on what appears to be an old water course with an east-west strike in the Schist with a steep dip to the north. The mineralization observed was that of copper as oxides and sulphides with manganese staining the fractures of the Schist. Width of this mineralization in places reached three feet and then decreased to six inch widths. Strength of this mineralization could be classed in the 2 to 3% grade which definitely would not permit economical mining. The third principal development consisted of a 300 foot adit and an inclined winze 200 feet on the slope from the face of the adit in the plane of the adit. The adit was examined, however, the winze was full of water, thus, the dump material was examined. Evidence of small, 1/2" quartz stringers with copper and iron mineralization as the sulphides, chalcopyrite and pyrite, were observed. Here again the mineralization appeared weak and of low grade. This mineralization hosted in a dioritic rock of dense, siliceous character assuming a dike or sill structure, common to the area.

The writer took one character sample of the dioritic material from the dump of the adit-winze development in order to indicate the absense or presence of a low-grade (approximately 1% copper content) possibility. This character sample assayed the following: copper, 0.03%, gold, Tr. and silver, 0.20 ounces per ton. Results of this sample thus indicate that no low-grade potential is in existance within the realm of recent development of the property.

No recommendations can be submitted in as much as there is not sufficient geologic evidence properly mapped and available at this time to justify any reasonable exploration program nor could the writer detect any geologic evidence within the property to justify expenditure of funds for further development, thus, the conclusions submitted at the beginning of this report are the ruling factor of decision.

Respectfully submitted,

R. E. Mieritz, P. E.
Consulting Mining Engineer
Phoenix, Arizona

Aero Geology & Engineering Services

"WORLD COVERAGE"

R. E. MIERITZ, REG'D. ENG., PRINCIPAL EXECUTIVE

[redacted].

Phone [redacted]

526 W. ROOSEVELT PHOENIX, ARIZONA AL 2-8396

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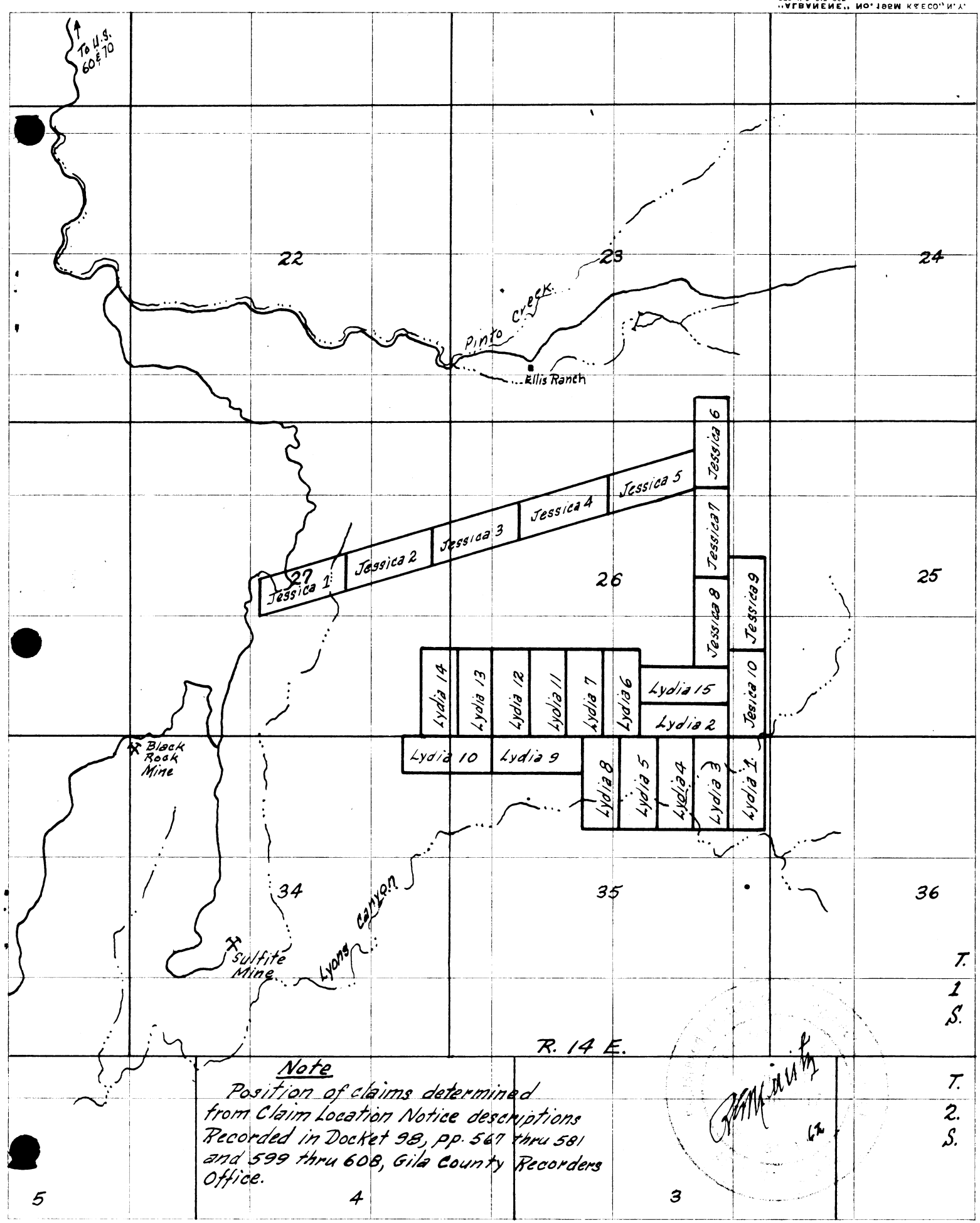
EXAMINATIONS
EXPLORATION

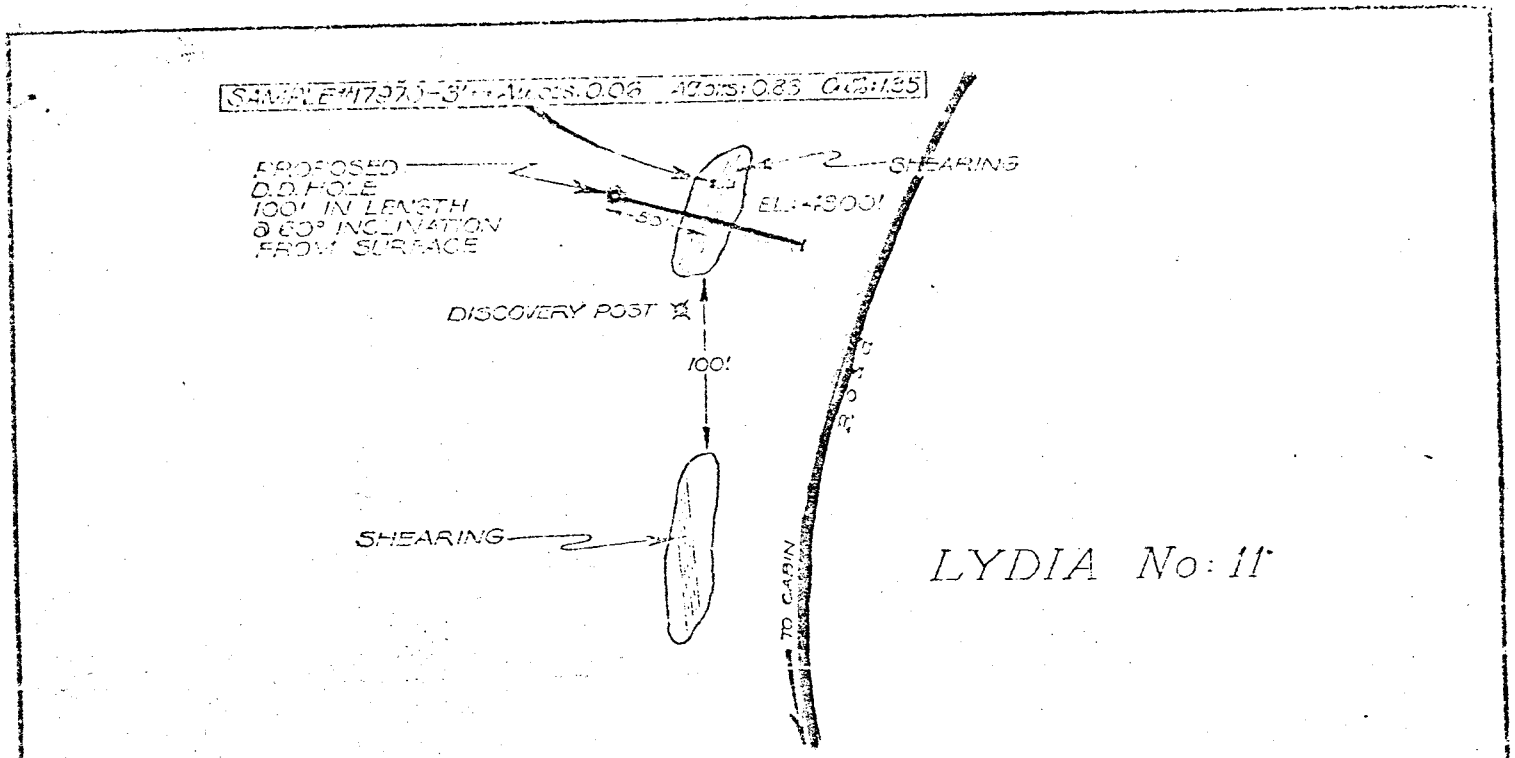


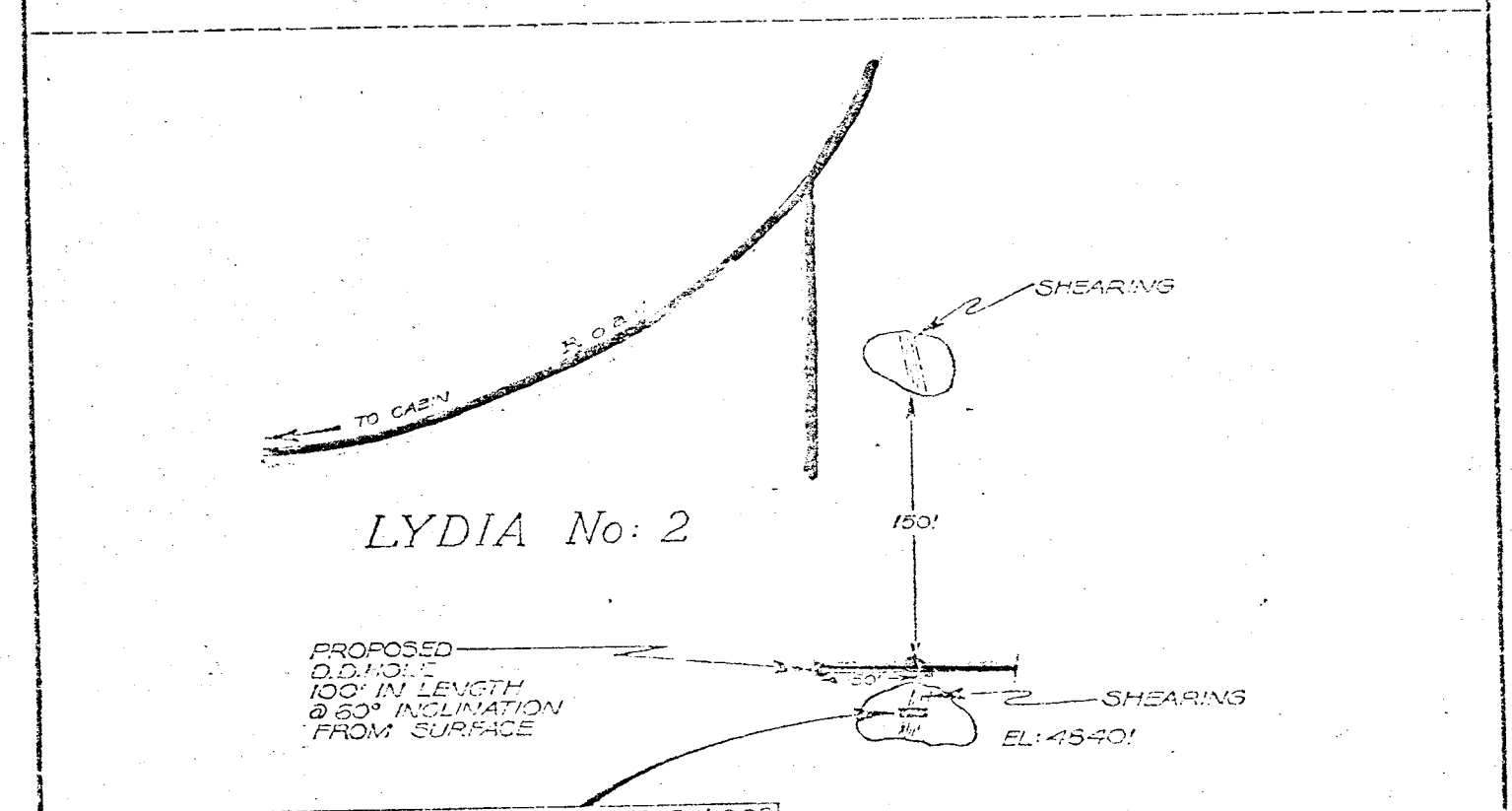
Note

Position of claims determined from Claim Location Notice descriptions Recorded in Docket 98, pp. 567 thru 581 and 599 thru 608, Gila County Recorders Office.

MINE Lydia Mining Co. LOCATION Gila County, A LEVEL Claim Map.

GEOLOGY BY SURVEY SCALE 1" = 2000 ft. DATE June, 1962





SAMPLE #17968-3' = Au ozs: 0.60 Ag ozs: 35.42 Cu%: 0.02

NOTE: DISTANCE & BEARINGS ARE APPROXIMATE — PACE & COMPASS CONTROL.

GREENLEE MINING PROPERTY

GILA COUNTY, ARIZONA

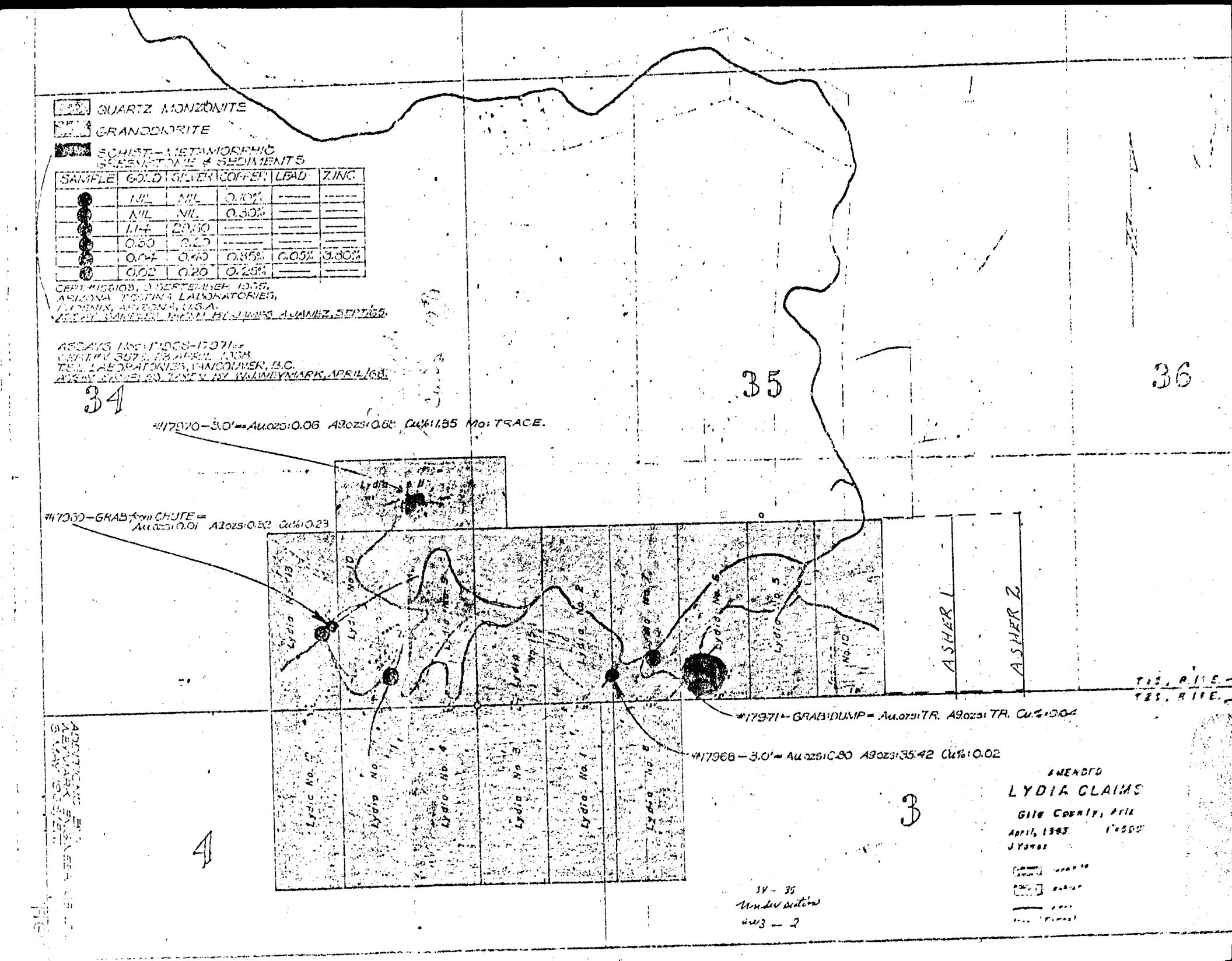
WEYMARK ENGINEERING LTD.

CONSULTING ENGINEERS

WEST VANCOUVER, BRITISH COLUMBIA
CANADA

PROPOSED DIAMOND DRILL HOLES
MINERAL ZONES
LYDIA CLAIMS Nos: 2 & 11

DATE	6 MAY/68.	SCALE	1"=100' APPROX.
SUBMITTED	W.M.W.	CHECKED	W.M.W.
DRAWN	E.T.	FILE No.	GMP-1
TRACED	———	CONTRACT	GMP-1


QUARTZ MONZONITE
GRANODIORITE
SCHIST—METAMORPHIC GREENSTONE & SEDIMENTS
SAMPLE | GOLD | SILVER | COPPER | LEAD | ZINC
NIL | NIL | 0.10% | —— | ——
NIL | NIL | 0.30% | —— | ——
1.14 | 29.60 | —— | —— | ——
0.30 | 2.20 | —— | —— | ——
0.04 | 0.40 | 0.35% | 0.05% | 3.80%
0.02 | 0.20 | 0.25% | —— | ——
CERT. #156103, 9 SEPTEMBER 1965, ARIZONA TESTING LABORATORIES, PHOENIX, ARIZONA, U.S.A.
ASSAY SAMPLES TAKEN BY JAMES A. JANEZ, SEPT/65.
ASSAYS Nos: 17968-17971 = CERT. # 3575, 23 APRIL 1968. T.S.L. LABORATORIES, VANCOUVER, B.C.
ASSAY SAMPLES TAKEN BY W.J. WEYMARK, APRIL/68.
34
35
36
#17970—3.0' = Au.ozs:0.06 Ag.ozs:0.88 Cu%:1.35 Mo: TRACE.
#17969—GRAB from CHUTE = Au.ozs:0.01 Ag.ozs:0.32 Cu%:0.23
Lydia No. 13
Lydia No. 10
Lydia No. 9
Lydia No. 15
Lydia No. 2
Lydia No. 7
Lydia No. 6
Lydia No. 5
Lydia No. 12
Lydia No. 11
Lydia No. 4
Lydia No. 3
Lydia No. 1
Lydia No. 8
ASHER 1
ASHER 2
T.1S., R.1E.
T.2S., R.1E.
#17971—GRAB: DUMP = Au.ozs: TR. Ag.ozs: TR. Cu%: 0.04
#17968—3.0' = Au.ozs: 0.80 Ag.ozs: 35.42 Cu%: 0.02
3
4
AMENDED
LYDIA CLAIMS
Gila County, Ariz
April, 1965
J. Yanez
34 - 35
Under section
3 - 2
ADDITIONS BY
WEYMARK ENGINEER
5 MAY 1965

8 . . .

AREA CODE 602 • 273-7311

A

ALOHA - PHOENIX MOTOR HOTEL

3901 EAST VAN BUREN • PHOENIX, ARIZONA 85008

NAME	DATE LOCATED	BOOK.	PAGE
LYDIA 1 – 15	AMENDED APRIL 3. 1965	181	469 – 483
JESSICA 10	" " "	181	468
ASHER 1	FEBRUARY 12, 1971	297 -	613
ASHER 2	JUNE 21. 1971	303 .	806

SEC 34.35 304 FOREST 425 = 208

Carmen Springs Road

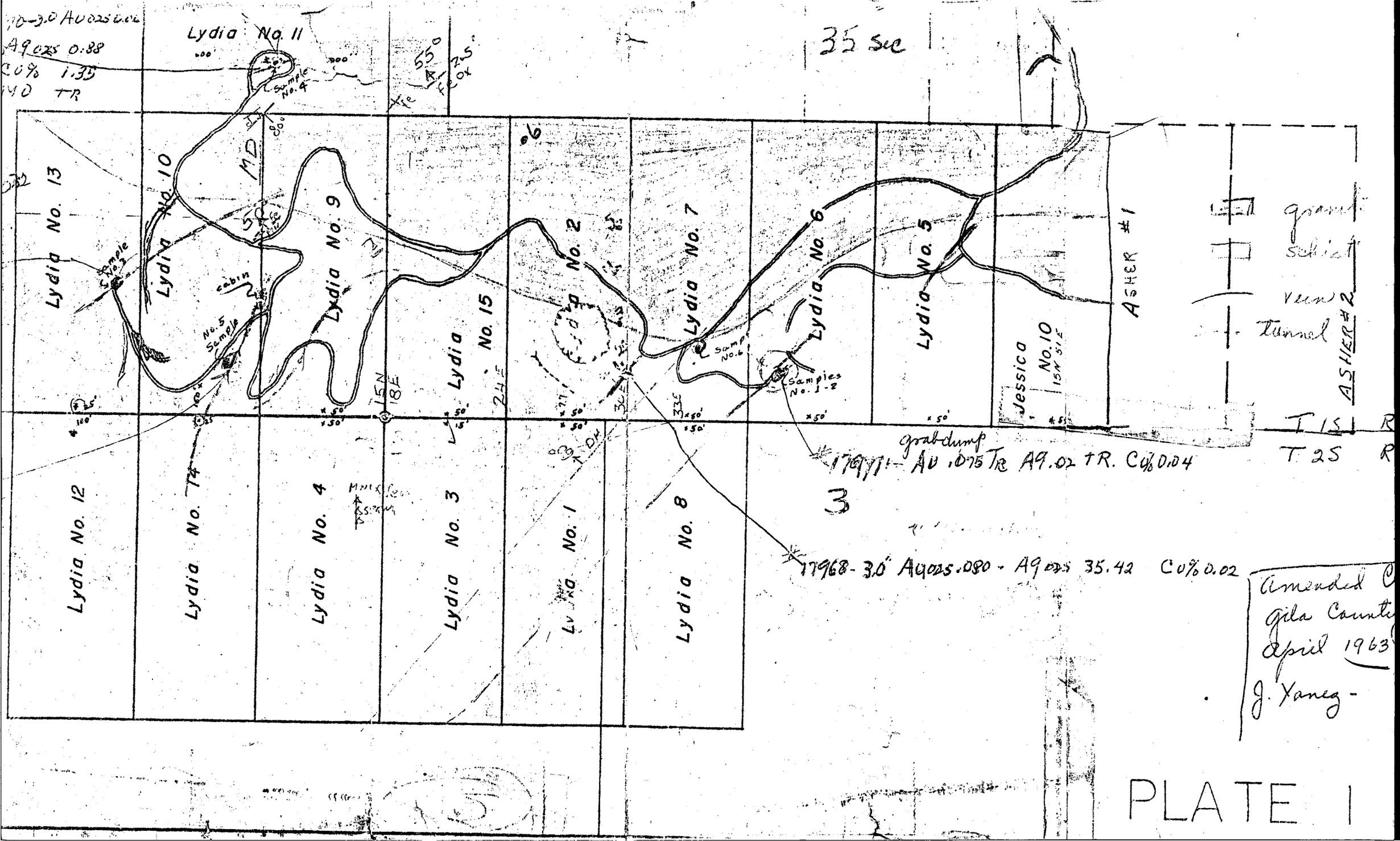
Hagen Ranch

LYONS Creek

10323 - Santa Monica

277-1333

a
Geological and Exploration 24
~~and~~ Report 4
~~Exploration~~
on the 4
Lydia Copper Property 21+1
in 2
Gila County, Arizona 20
by 2
Richard E. Mrenty 18
Mining Consultant 17+1
Phoenix, Arizona 16
July 8, 1974 12
Table of Contents 17

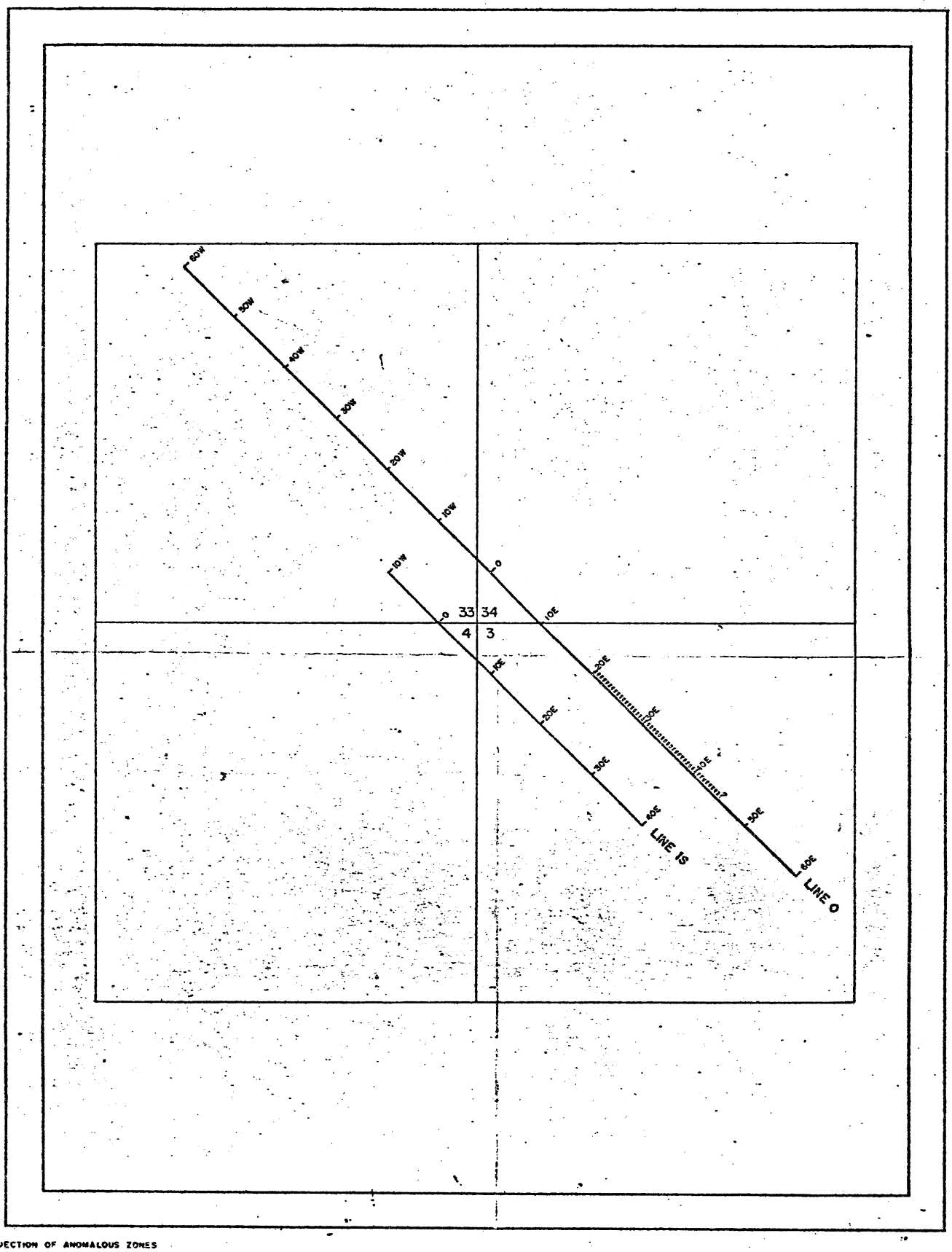


Lydia No. 11
Lydia No. 13
Lydia No. 10
Lydia No. 9
Lydia No. 15
Lydia No. 2
Lydia No. 7
Lydia No. 6
Lydia No. 5
Jessica No. 10
Lydia No. 12
Lydia No. 14
Lydia No. 4
Lydia No. 3
Lydia No. 1
Lydia No. 8
Sample No. 4
Sample No. 3
No. 5 Sample
Sample No. 6
Samples No. 1-2
cabin
MD
35 sec
ASHER #1
ASHER #2
granite
schist
vein
tunnel
T 1S R
T 2S R
grab dump
17977 - Au .075 Tr A9.02 TR. Cu% 0.04
17968 - 3.0' Au025.080 - A9 025 35.42 Cu% 0.02
3
Amended C
Gila Counti
April 1963
J. Yaneg -
PLATE 1

McPHAR GEOPHYSICS

INDUCED POLARIZATION AND RESISTIVITY SURVEY

PLAN MAP



SURFACE PROJECTION OF ANOMALOUS ZONES

METAL FACTOR	PERCENT FREQUENCY EFFECT
DEFINITE	VERY STRONG
PROBABLE	STRONG
POSSIBLE	MODERATE
APPARENT DEPTH S = shallow M = moderate, D = deep C = contact, F = fault	WEAK
	VERY WEAK

Number of the end of anomaly indicates spread used

N. GREENLEE

LYDIA PROSPECT, GILA COUNTY, ARIZONA

PROVISIONAL COPY

SCALE

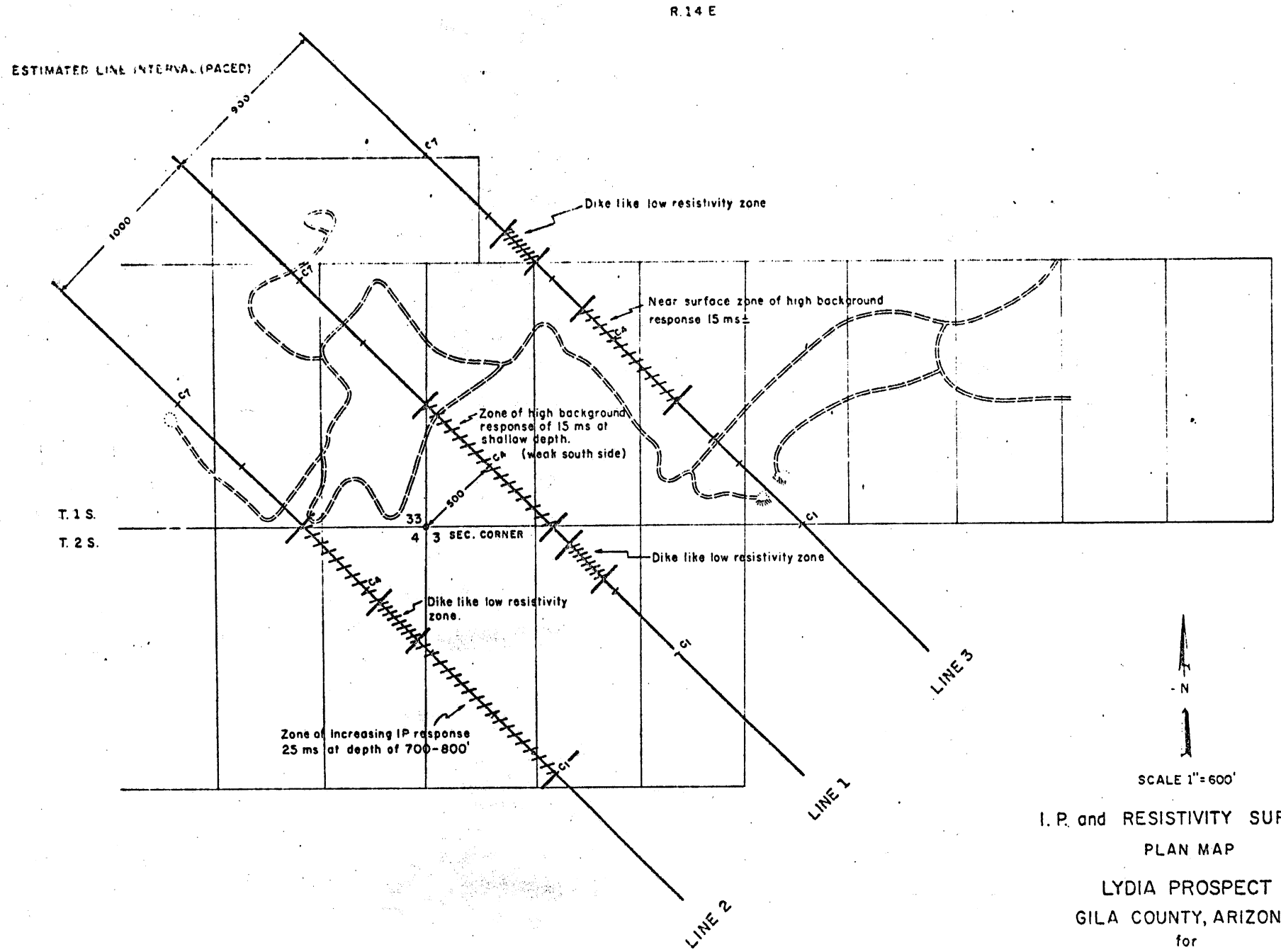
FEET 1000 0 1000 2000 3000 4000 5000 FEET

1 INCH EQUALS 1000 FEET

DRAWN: F. Boccelli
DATE: AUGUST, 1973
APPROVED:

DATE:

DWG.



SCALE 1" = 600'

I. P. and RESISTIVITY SURVEY

PLAN MAP

LYDIA PROSPECT

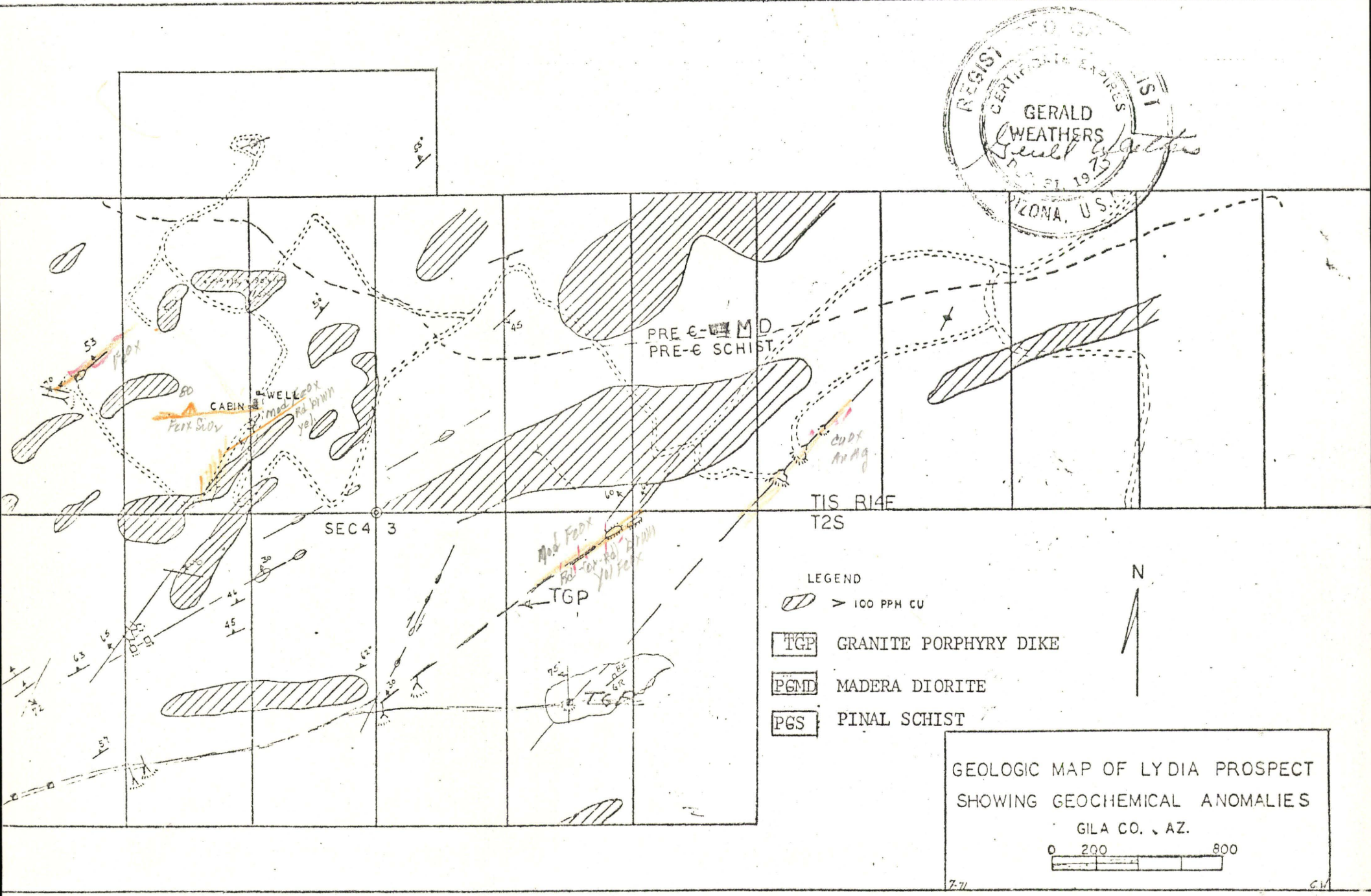
GILA COUNTY, ARIZONA

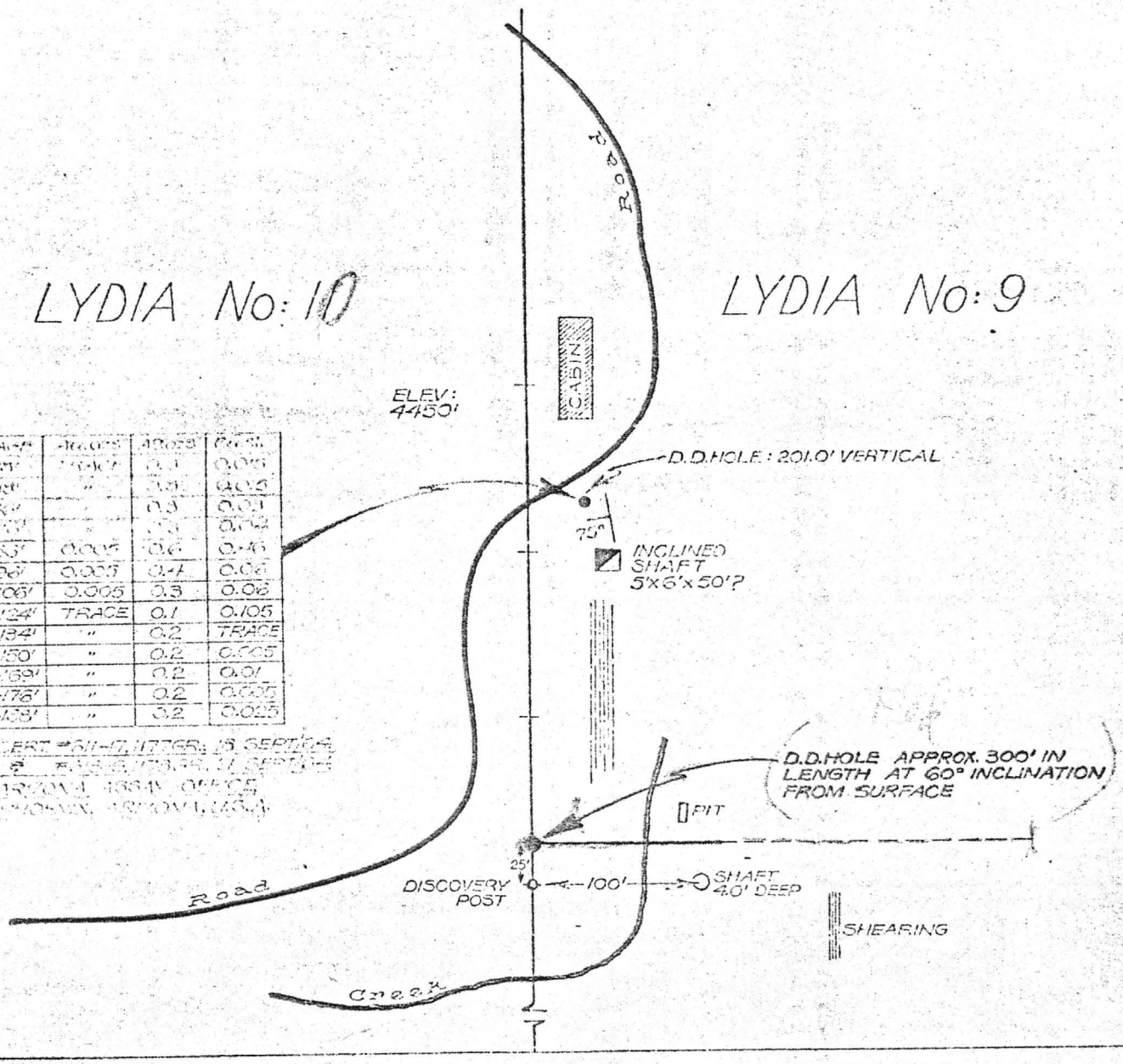
for

G. WEATHERS on behalf of N. GREENLEE

by

mining geophysical surveys


REGISTERED GEOLOGIST
CERTIFICATE EXPIRES
GERALD WEATHERS
DEC 31 1973
ARIZONA, U.S.A.
PRE-€ MD
PRE-€ SCHIST
CABIN
WELL
SEC 4
3
T1S R14E
T2S
TGP
TGS
LEGEND
> 100 PPM CU
TGP GRANITE PORPHYRY DIKE
P€MD MADERA DIORITE
P€S PINAL SCHIST
N
GEOLOGIC MAP OF LYDIA PROSPECT
SHOWING GEOCHEMICAL ANOMALIES
GILA CO., AZ.
0 200 800



FOOTAGE	Au.ozs	Ag.ozs	Cu.%
38-48'	TRACE	0.1	0.015
48-58'	"	0.3	0.025
58-76'	"	0.3	0.03
66-76'	"	0.3	0.04
76-86'	0.005	0.6	0.46
86-96'	0.005	0.4	0.06
96-106'	0.005	0.3	0.06
106-124'	TRACE	0.1	0.105
124-134'	"	0.2	TRACE
134-150'	"	0.2	0.005
160-169'	"	0.2	0.01
169-176'	"	0.2	0.005
176-188'	"	0.2	0.025

CERT. #611-17, 1177GR, 18 SEPT/64
& #618-6, 1178GR, 21 SEPT/64
ARIZONA ASSAY OFFICE
PHOENIX, ARIZONA, U.S.A.

GILA COUNTY, ARIZONA

NOTE: DISTANCE & BEARINGS ARE APPROXIMATE — PACE & COMPASS CONTROL.

GREENLEE MINING PROPERTY

WEYMARK ENGINEERING LTD.
CONSULTING ENGINEERS
WEST VANCOUVER, BRITISH COLUMBIA
CANADA

LYDIA CLAIMS
LOCATION PROPOSED D.D.HOLE

DATE	6 MAY/65	SCALE	1"=100' APPROX.
SUBMITTED	W.J.W.	CHECKED	W.J.W.
DRAWN	E.T.	FILE No.	GMP-1.
TRACED	——	CONTRACT	GMP-1.