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Tucson, Arizona 85701
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Volume 4 ; Book 5

0060

TOMBSTONE

Mining District

Cochise County

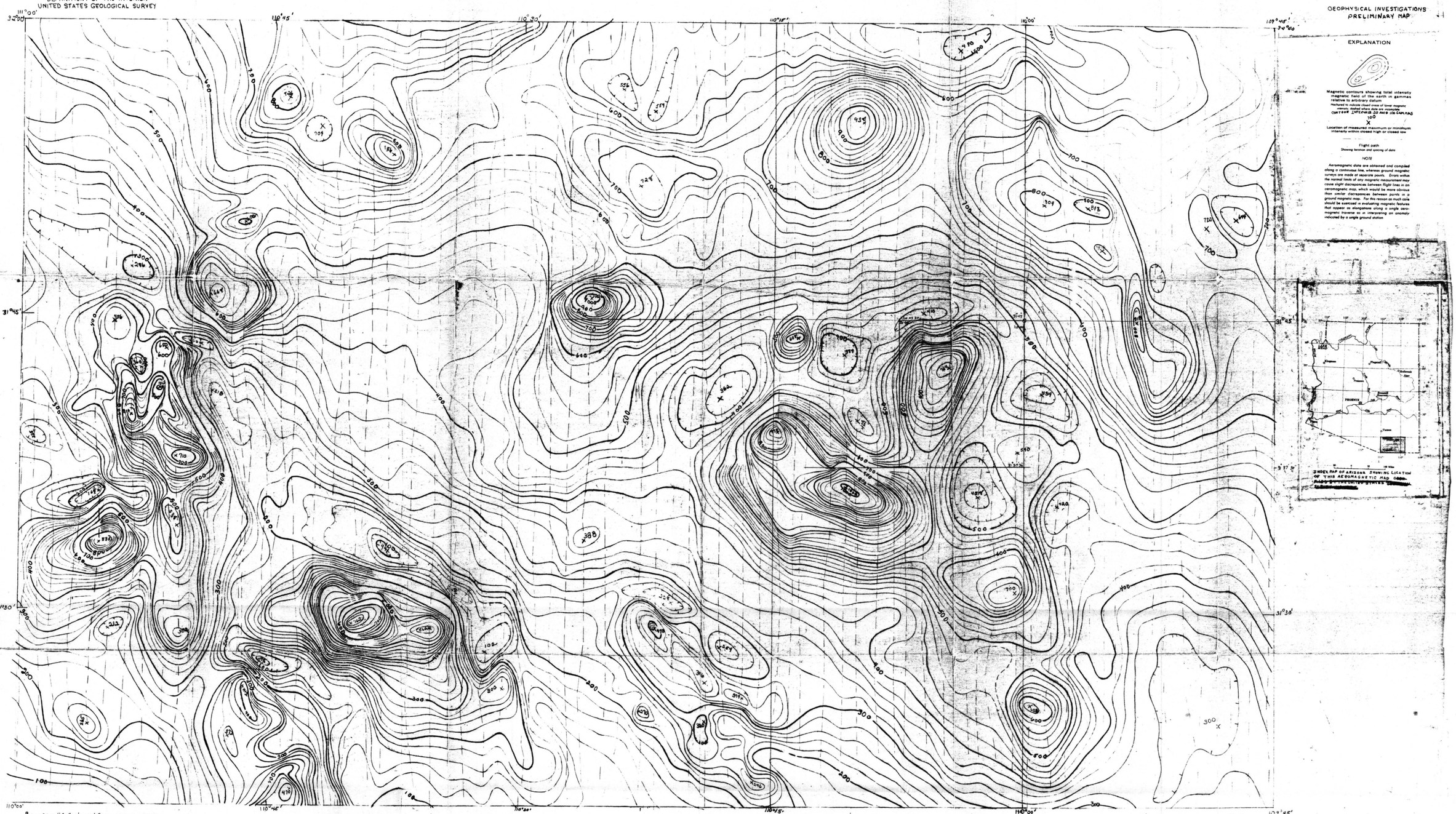
ARIZONA

Misc. TMD Maps
1965 to 1979

NEWELL'S THESIS
MAPS - 1973

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

GEOPHYSICAL INVESTIGATIONS
PRELIMINARY MAP



Base from U.S. Geological Survey 250,000 series quadrangles; Nogales, 1956-58; and Douglas, 1946.

Aeromagnetic survey flown at 9000 feet barometric elevation, 1964

AEROMAGNETIC MAP OF TOMBSTONE AND VICINITY COCHISE AND SANTA CRUZ COUNTIES, ARIZONA

By
G.E. Andreasen, C.M. Mitchell and W.S. Tyson

SCALE 1:125 000

1965

Aeromagnetic map of Tombstone & Vicinity
USGS OFR 1965 Scale 1:12500

DATE: 1965	REVISIONS					
	DATE	NUMB.	BY	DATE	NUMB.	BY
DRAWN BY: Anderson						
APPROVED:						
DRAWING NUMBER						
D.N.	R.	P.	F.	LOC.		

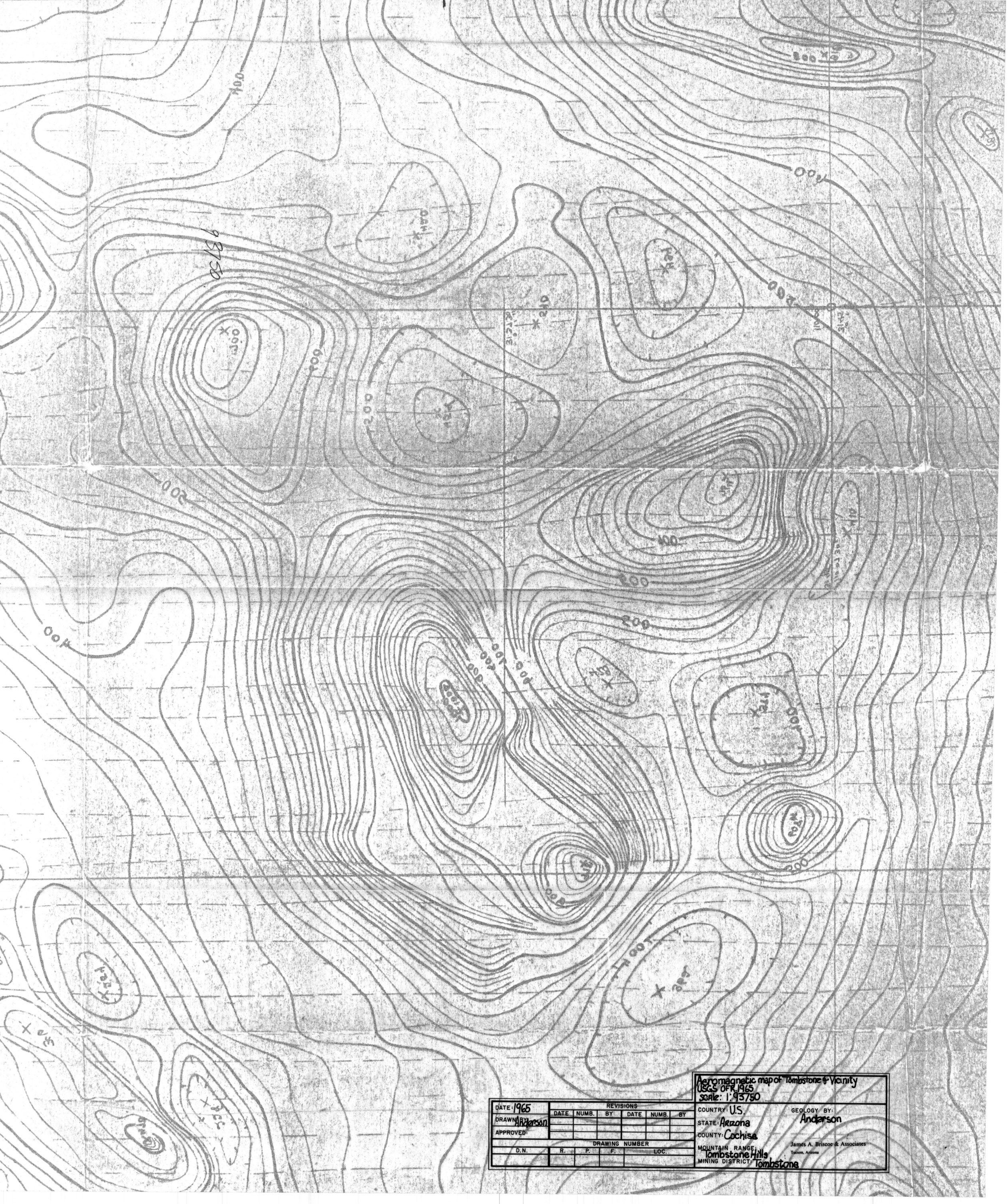
COUNTRY: U.S. GEOLOGY BY: Anderson
STATE: Arizona
COUNTY: Cochise
MOUNTAIN RANGE: Tombstone Hills
MINING DISTRICT: Tombstone

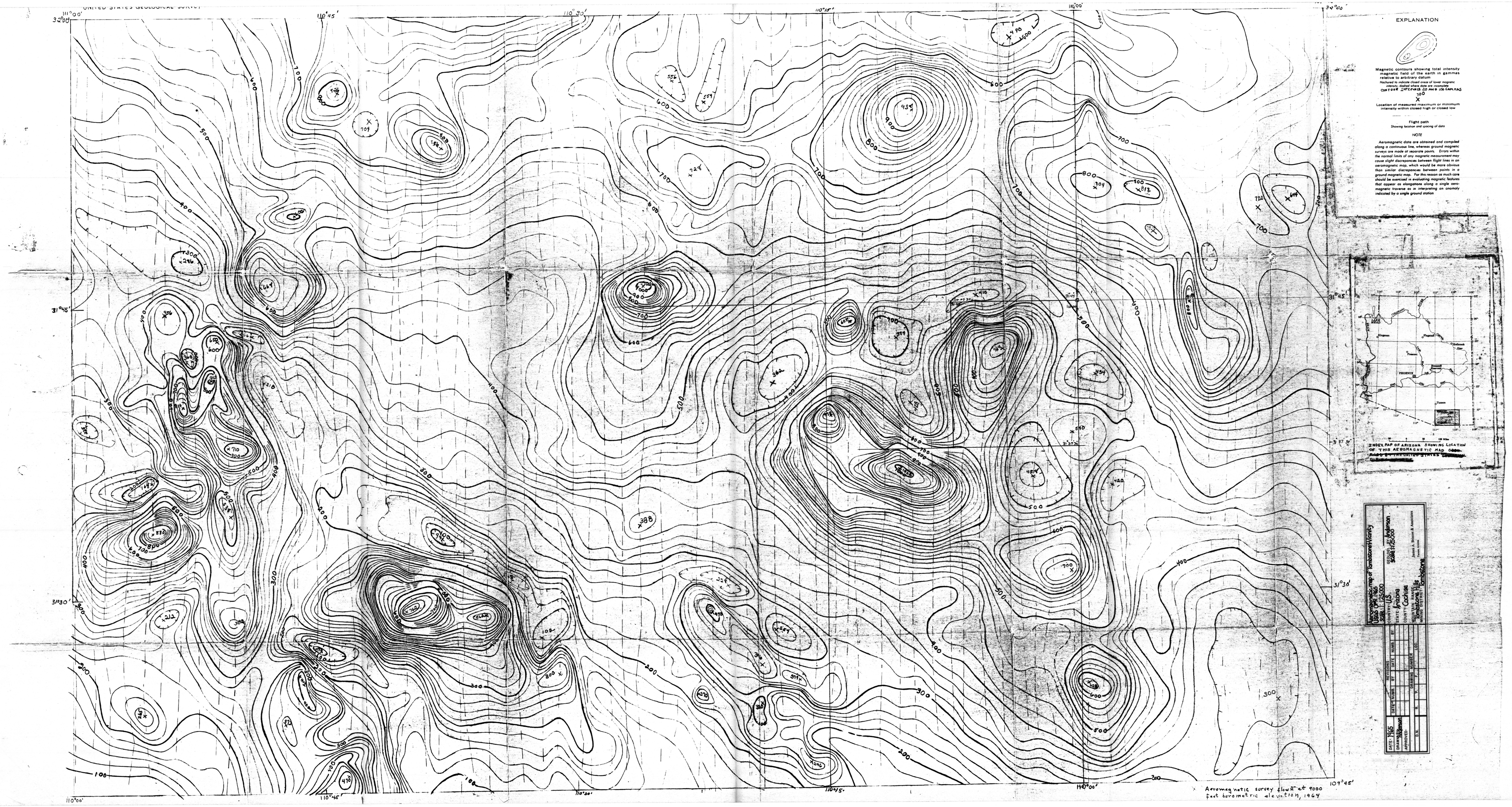
James A. Briscoe & Associates
Tucson, Arizona

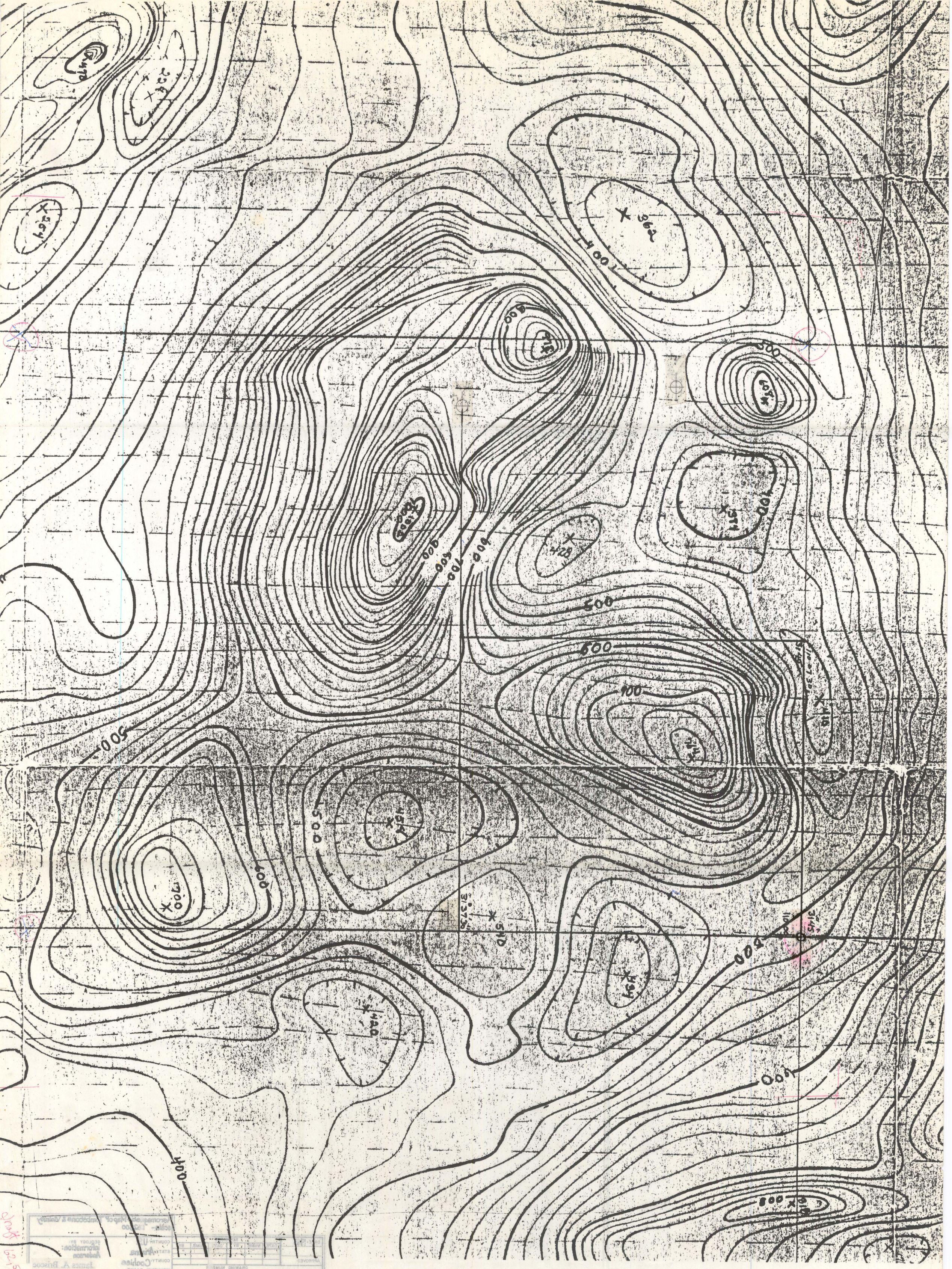
This map is preliminary and has not been edited or reviewed for conformity to Geological Survey standards and nomenclature.

U. S. GEOLOGICAL SURVEY
Released to open files
June 11, 1965

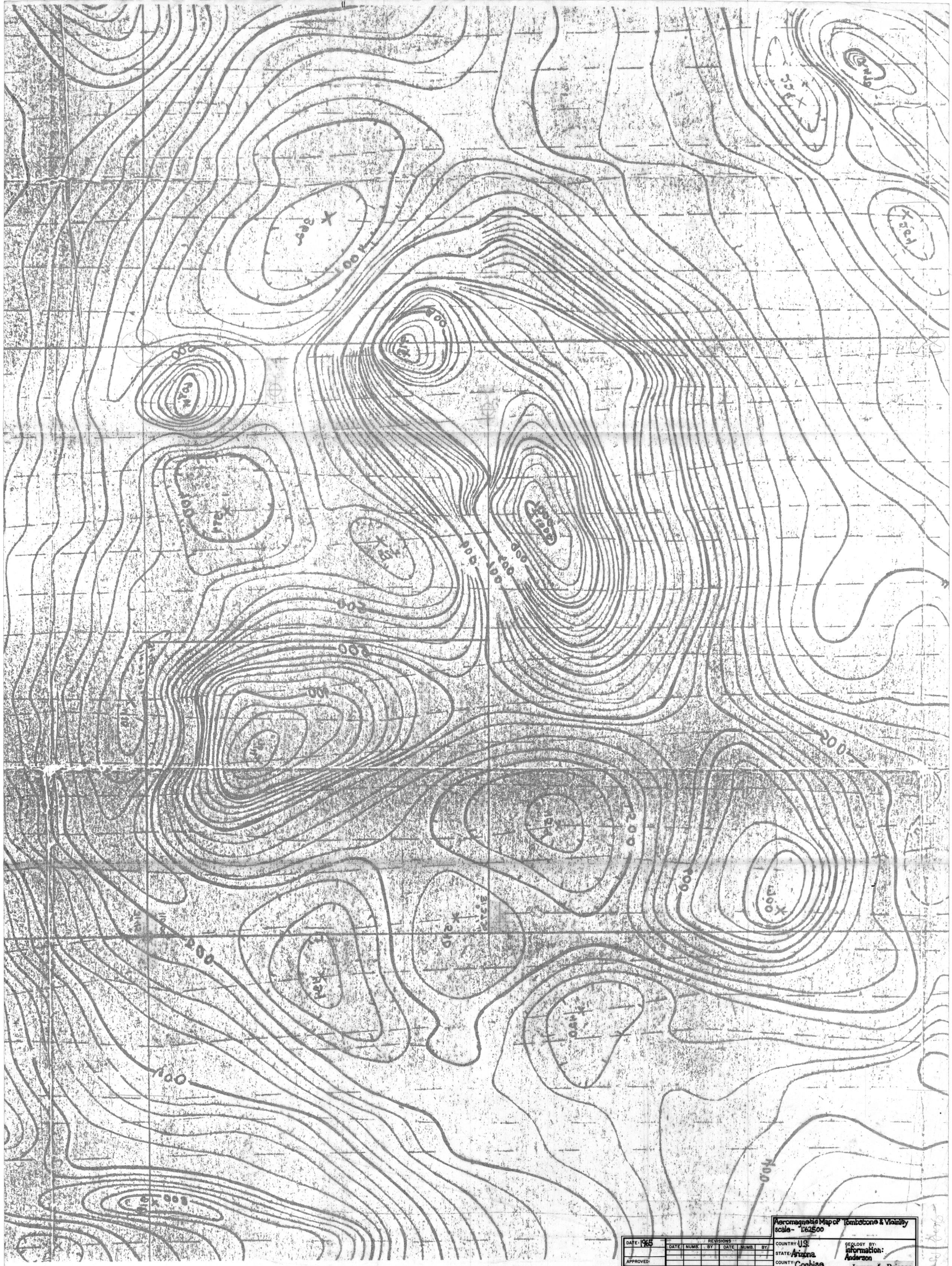
600
500
400
700

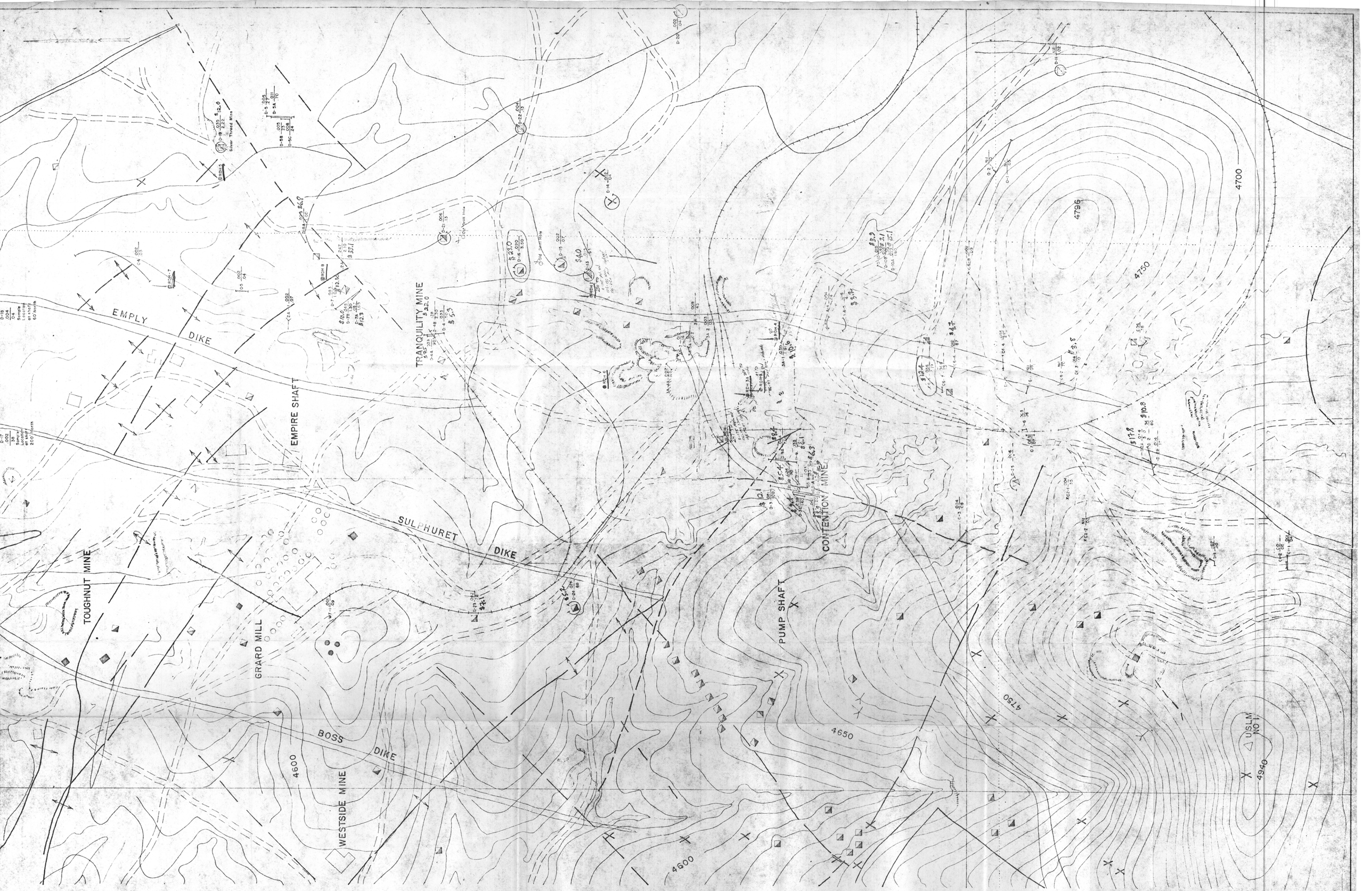

Aeromagnetic map of Tombstone & Vicinity
USGS OFR. 1965
scale: 1:93750
DATE: 1965
DRAWN BY: Anderson
APPROVED:
REVISIONS
DATE NUMB. BY DATE NUMB. BY
DRAWING NUMBER
D.N. R. P. F. LOC.
COUNTRY: U.S.
STATE: Arizona
COUNTY: Cochise
MOUNTAIN RANGE: Tombstone Hills
MINING DISTRICT: Tombstone
GEOLOGY BY: Anderson
James A. Briscoe & Associates
Tucson, Arizona


UNITED STATES GEOLOGICAL SURVEY
EXPLANATION
Magnetic contours showing total intensity magnetic field of the earth in gammas relative to arbitrary datum
Hachured to indicate closed areas of lower magnetic intensity. Dashed where data are inconsistent
CONTOUR INTERVALS 20 AND 100 GAMMAS
Location of measured maximum or minimum intensity within closed high or closed low
Flight path
Showing location and spacing of data
NOTE
Aeromagnetic data are obtained and compiled along a continuous line, whereas ground magnetic surveys are made at separate points. Errors within the normal limits of any magnetic measurement may cause slight discrepancies between flight lines in an aeromagnetic map, which would be more obvious than similar discrepancies between points in a ground magnetic map. For this reason as much care should be exercised in evaluating magnetic features that appear as elongations along a single aeromagnetic traverse as in interpreting an anomaly indicated by a single ground station
INDEX MAP OF ARIZONA SHOWING LOCATION OF THIS AEROMAGNETIC MAP
Aeromagnetic survey flown at 9000 feet barometric elevation, 1964



362
400
500
600
700
800


Aeromagnetic Map of Tombstone & Vicinity
scale - 1:62500
DATE: 1965
REVISIONS
DATE NUMB. BY DATE NUMB. BY
APPROVED:
DRAWING NUMBER
D.N. R. P. F. LOC.
COUNTRY: U.S.
STATE: Arizona
COUNTY: Cochise
MOUNTAIN RANGE: Tombstone Hills
MINING DISTRICT: Tombstone
GEOLOGY BY:
information: Anderson
James A. Briscoe
& Associates
Tucson, Arizona



EXPLANATION

Approx. size & location of rock chip/channel or "french" samples

Approx. location of vertical rock chip or channel samples on wall.

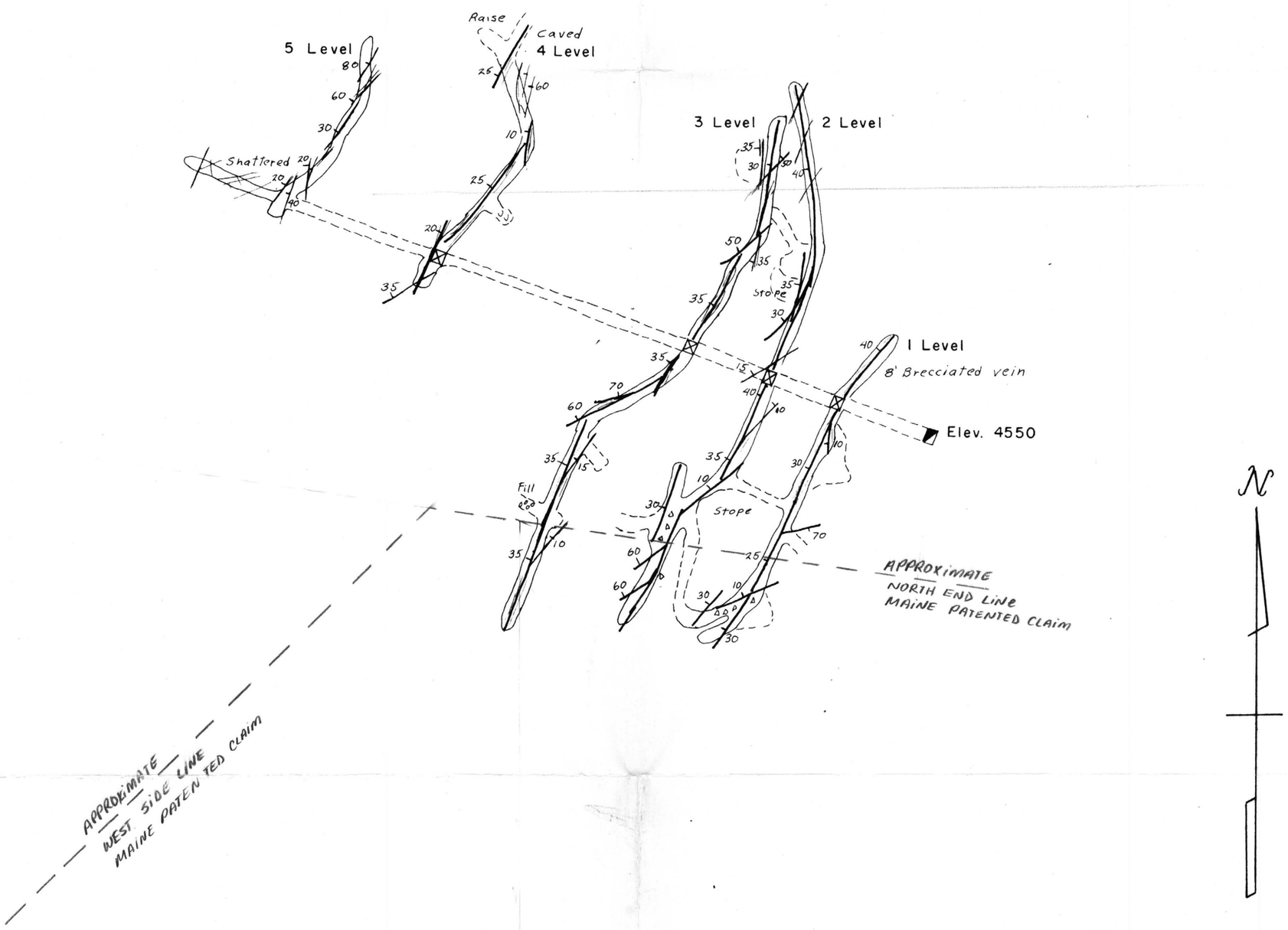
RDH-1 Rotary drill holes

Nil / .02 oz. per ton Au / oz. per ton Ag

C6-1 Sample No.

Note: Sample locations plotted from 500 scale map; accuracy is proportional.

DUVAL CORPORATION—EXPLORATION DEPT.	STATE ARIZONA
TOMBSTONE PROJECT (CONTENTION, TRANQUILITY AREA)	COUNTY COCHISE
	TOWNSHIP & RANGE T20S, R22E.
SURFACE LOCATION MAP & GEOCHEM	MAP NO. C1852 ~~D1820~~
DRAWN BY J.C.H. / LAYOUT BY T.L.M.	DATE 5/24/67 6/1/67
SCALE 1" 100 FEET (0, 100, 200, 300)	PLATE NO.



AUSTRAL OIL COMPANY INC.

TOMBSTONE AREA

COCHISE COUNTY, ARIZONA

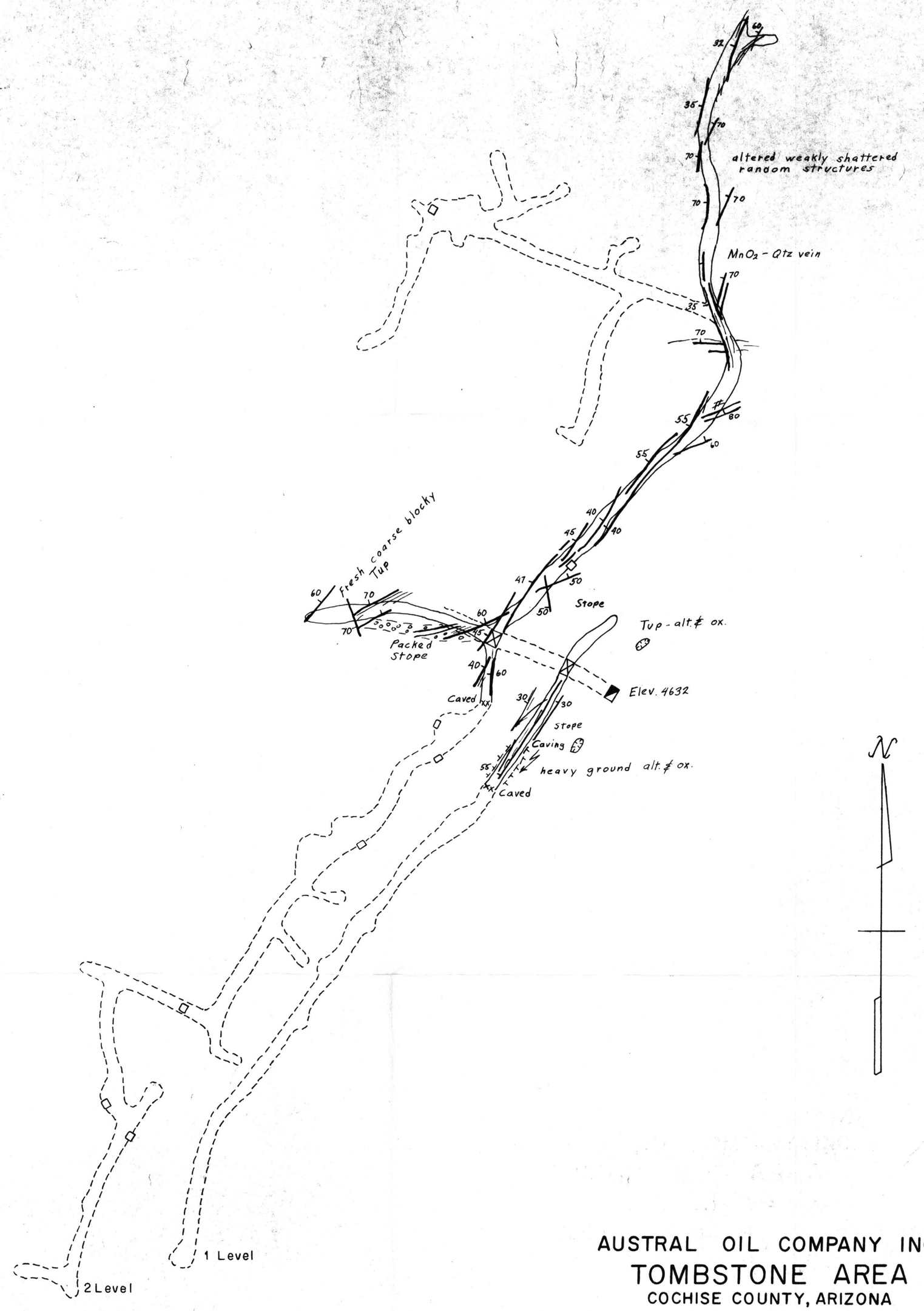
GEOLOGIC MAP OF THE COMPOSITE LEVELS UNCLE SAM MINE

0 10 50 100 Feet

W.L. July, 1968

SCANNED
2/5/10
JG
NN

SCANNED
2/5/10
SG



AUSTRAL OIL COMPANY INC.

TOMBSTONE AREA

COCHISE COUNTY, ARIZONA

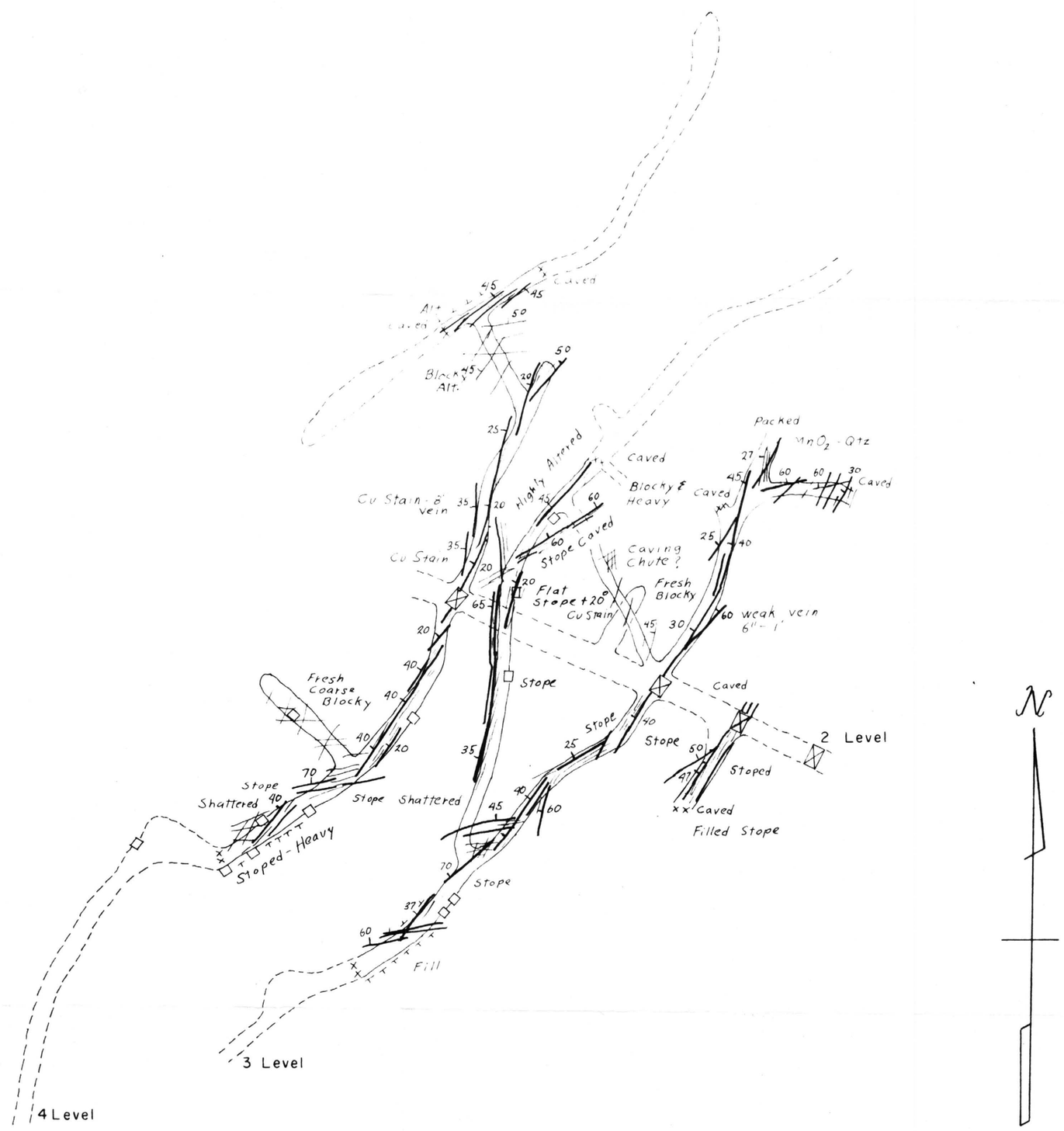
GEOLOGIC MAP OF THE
1 AND 2 LEVELS
STATE OF MAINE MINE

0 10 50 100 Feet

W.L. July, 1968

DRAWING
D.M. B P.
2532 D 418

SCANNED
2/5/16
JG
NN



AUSTRAL OIL COMPANY INC.

TOMBSTONE AREA

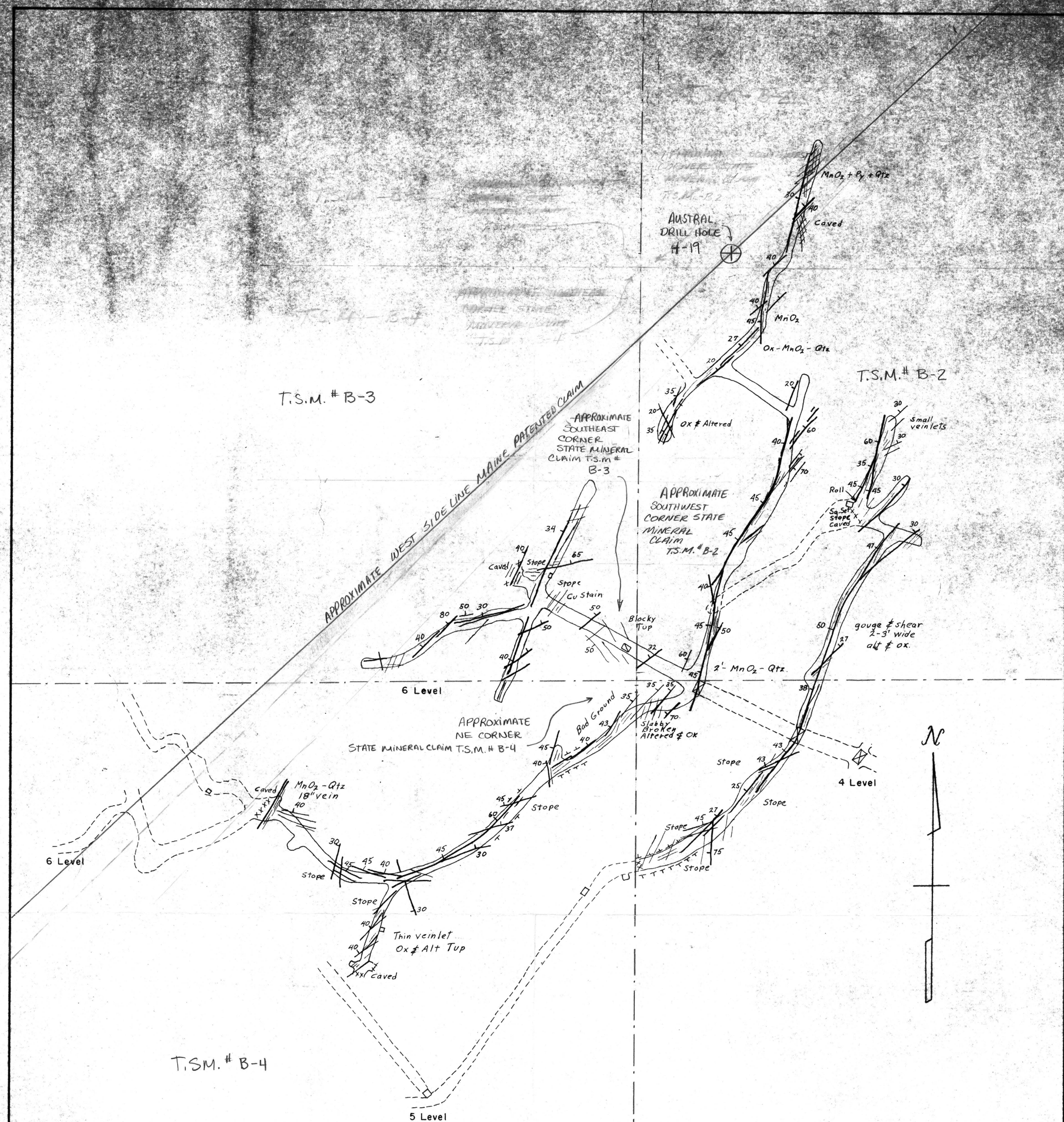
COCHISE COUNTY, ARIZONA

GEOLOGIC MAP OF THE 3 AND 4 LEVELS STATE OF MAINE MINE

0 10 50 100 Feet

W.L. July, 1968

SCANNED
2/5/10
JG
NN



AUSTRAL OIL COMPANY INC.

TOMBSTONE AREA

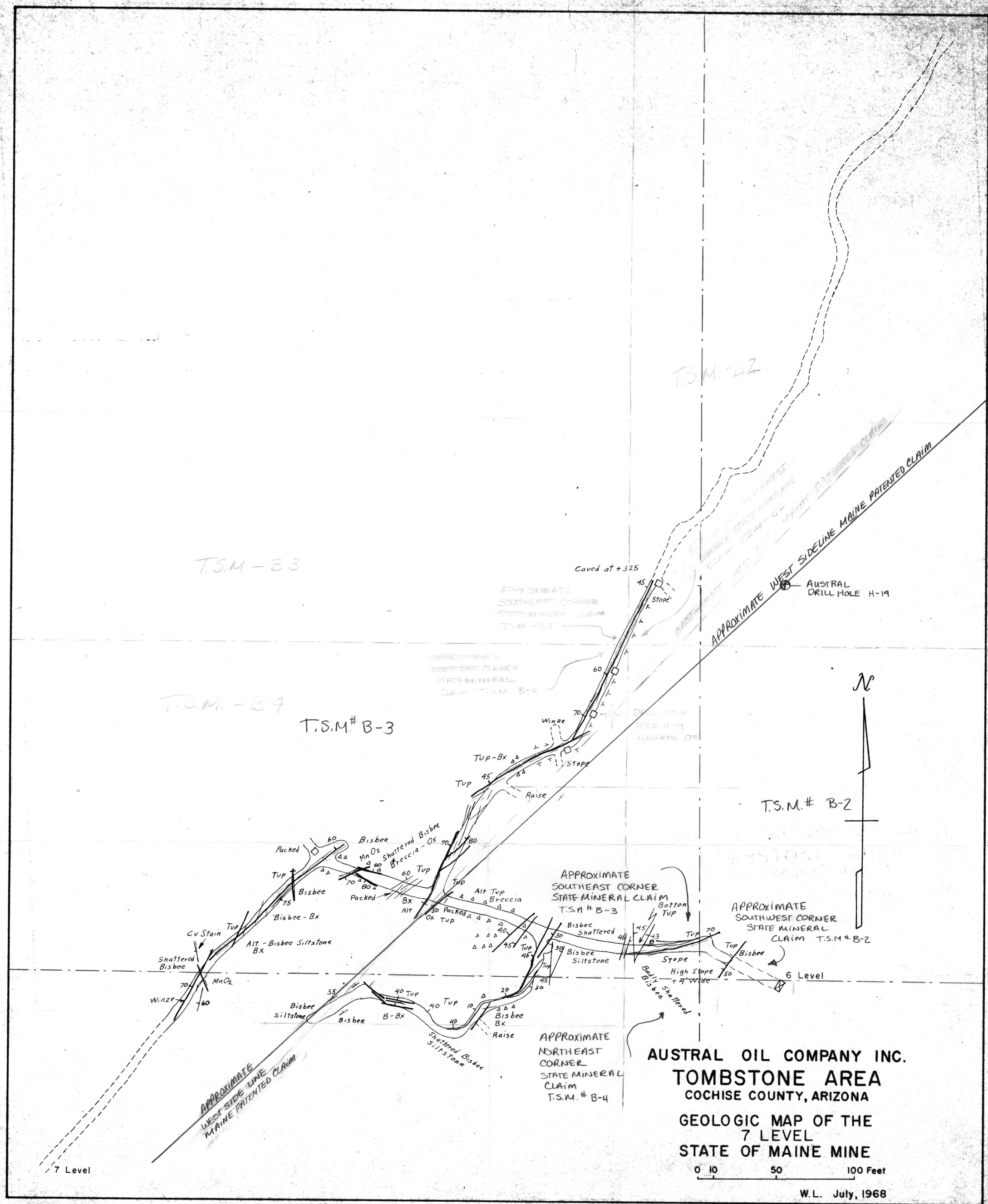
COCHISE COUNTY, ARIZONA

GEOLOGIC MAP OF THE 5 AND 6 LEVELS STATE OF MAINE MINE

0 10 50 100 Feet

W.L. July, 1968

SCANNED
2/5/10
JG
NN



AUSTRAL OIL COMPANY INC.

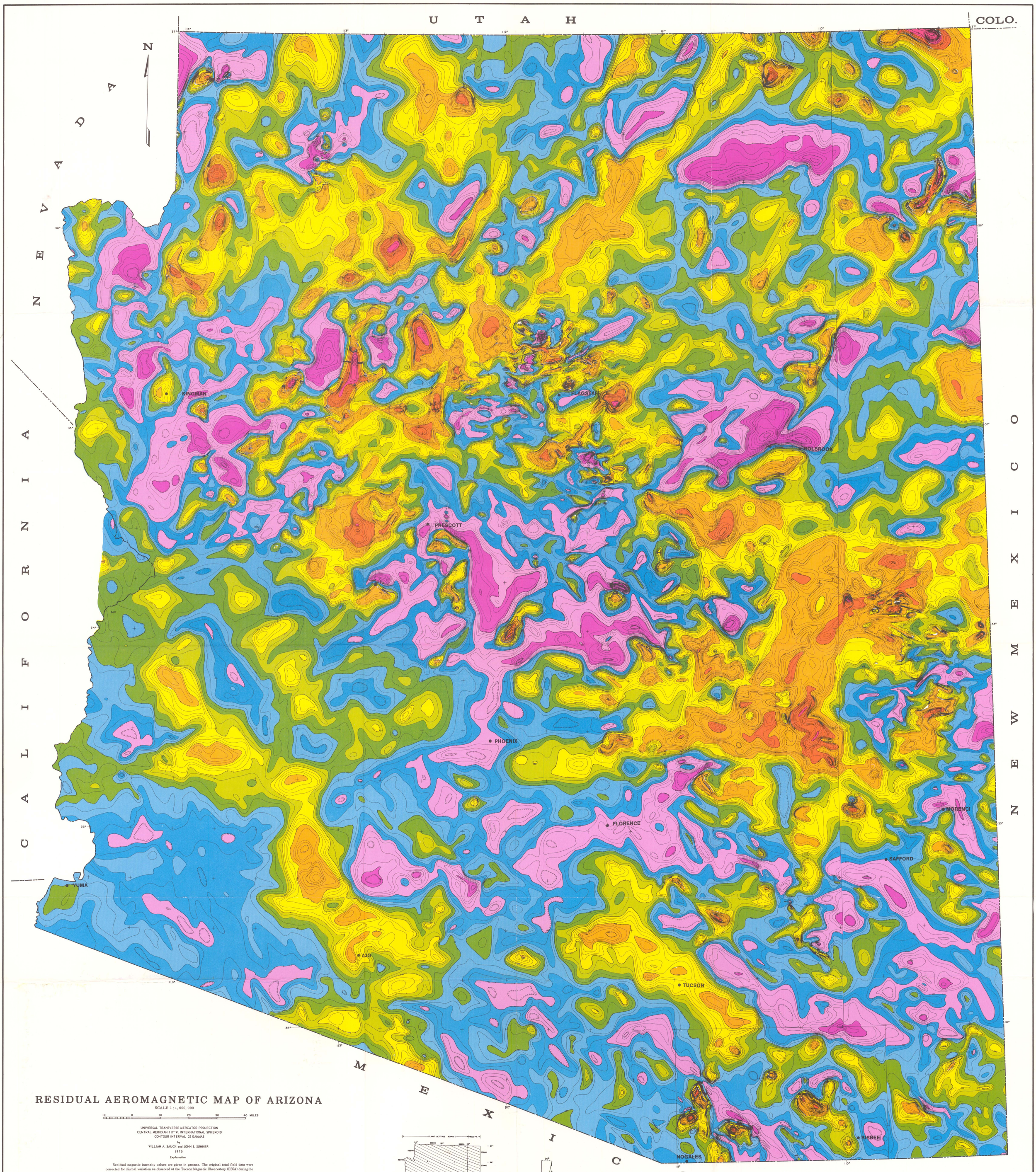
TOMBSTONE AREA

COCHISE COUNTY, ARIZONA

GEOLOGIC MAP OF THE 7 LEVEL STATE OF MAINE MINE

W.L. July, 1968

SCANNED
2/5/10
JG
NN



RESIDUAL AEROMAGNETIC MAP OF ARIZONA

SCALE 1 : 1,000,000

10 0 10 20 30 40 MILES

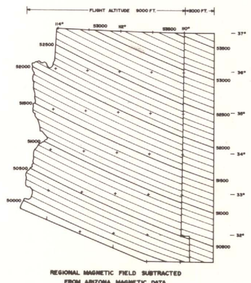
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
CENTRAL MERIDIAN 111° W, INTERNATIONAL SPHEROID
CONTOUR INTERVAL 25 GAMMAS

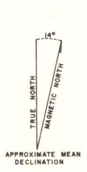
by
WILLIAM A. SAUCK and JOHN S. SUMNER
1970

Explanation

Residual magnetic intensity values are given in gammas. The original total field data were corrected for diurnal variation as observed at the Tucson Magnetic Observatory (ESSA) during the flight period. The regional magnetic field as shown on the accompanying index map was removed using a Fortran computer program derived from a Goddard Space Flight Center (NASA) report X-611-64-316 by Cain *et al*, Oct. 1964. The spherical harmonic coefficients and their first and second time derivatives (GSFC (12/66)-1, of degree and order 10) used with the program to represent the regional magnetic field are from Cain *et al*, 1967, A Proposed Model for the International Geomagnetic Reference Field-1965, *Journal of Geomagnetism and Geoelectricity*, v. 19, no. 4. The residual values were uniformly offset in a positive sense such that the 400 gamma contour represents zero residual field.

The Arizona aeromagnetic survey was flown June 1 to August 21, 1968, with a nominal flight line spacing of 5 km (3 miles) at elevations of 9,000 and 11,000 feet. The survey instrument was the University of Wisconsin–Elsec digital recording proton precession magnetometer. Flight lines were positioned from aerial photographs having an average spacing of 10 km (6 miles) along the flight paths. This map has incorporated the U.S.G.S. open-file map of "Tombstone and Vicinity" by Andreason, Mitchell, and Tyson, 1965. Exact locations of magnetic contours may have discrepancies as large as 2.5 km (1.5 miles) due to data gaps between flight lines and the interpolation of locations between positioning photographs. The data used in compiling this map are available.





RESIDUAL MAGNETIC INTENSITY

PLUS 400 GAMMAS

> 1000	800 to 1000	600 to 800	500 to 600	450 to 500	400 to 450	350 to 400	300 to 350	200 to 300	< 200

APPROXIMATE ZERO RESIDUAL

Published by the Department of Geosciences
The University of Arizona, Tucson, Arizona

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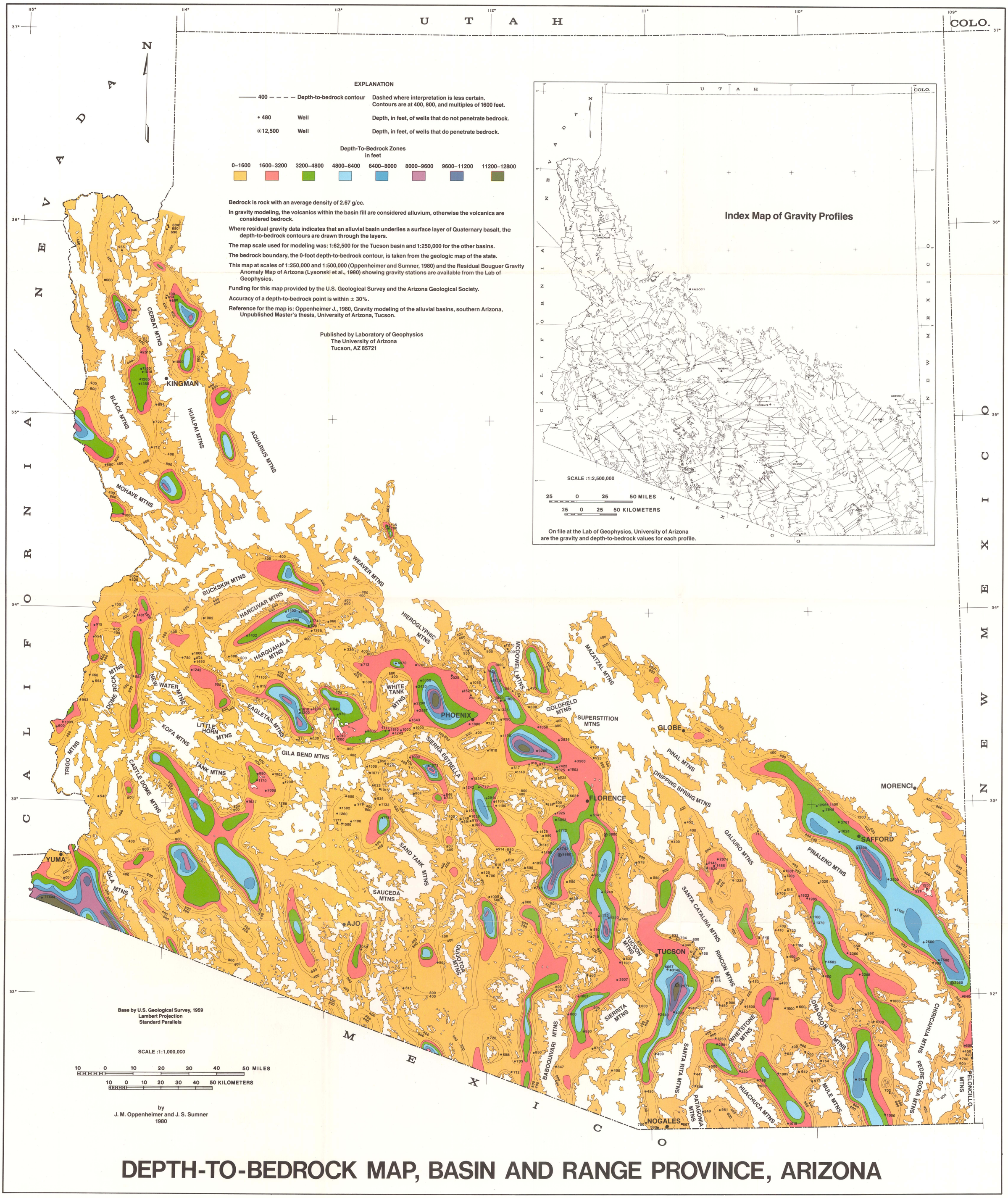
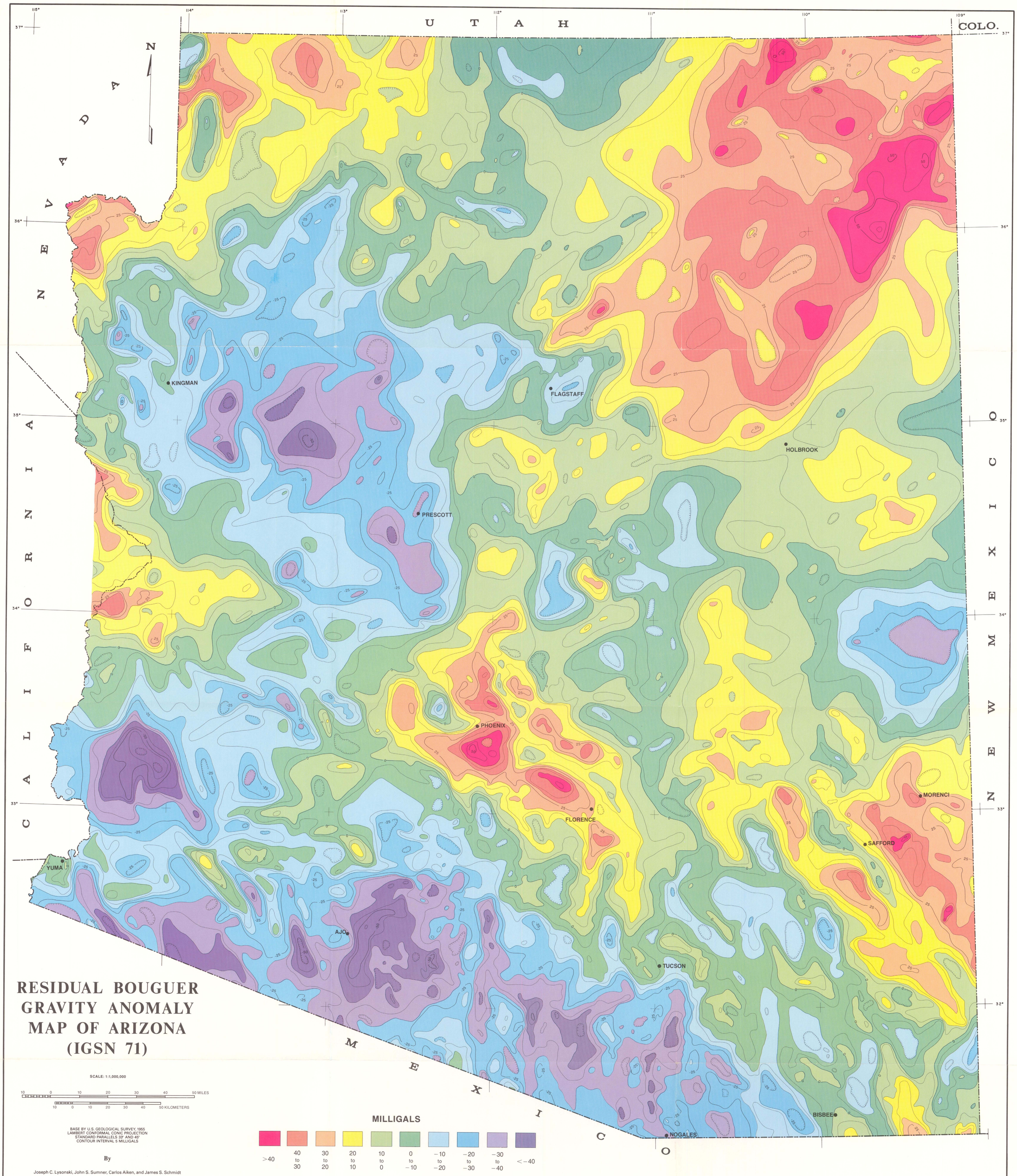
1970



DEPTH-TO-BEDROCK MAP, BASIN AND RANGE PROVINCE, ARIZONA



RESIDUAL BOUGUER GRAVITY ANOMALY MAP OF ARIZONA (IGSN 71)

SCALE: 1:1,000,000

10 0 10 20 30 40 50 MILES

10 0 10 20 30 40 50 KILOMETERS

BASE BY U.S. GEOLOGICAL SURVEY, 1955
LAMBERT CONFORMAL CONIC PROJECTION
STANDARD PARALLELS 33° AND 45°
CONTOUR INTERVAL 5 MILLIGALS

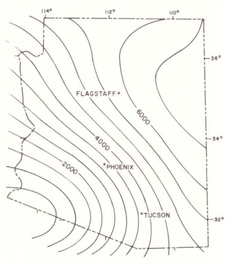
By

Joseph C. Lysonski, John S. Sumner, Carlos Aiken, and James S. Schmidt

1980

Gravity data were obtained from surveys by the Laboratory of Geophysics of the University of Arizona, U.S. Defense Mapping Agency, U.S. Geological Survey, Exxon Corporation, and mining companies and contractors. The index map gives primary sources of data for particular areas. A density of 2.67 g/cm³ was used for the Bouguer corrections. Terrain corrections were applied for a radial zone of 2.6 to 167 km. An isostatically controlled regional gravity map as shown on the accompanying index map was constructed from a two-harmonic Fourier trend surface of elevations in and near Arizona using a density of 2.67 g/cm³ (see Aiken, C. L. V., 1976, Analysis of Gravity Anomalies in Arizona: Ph.D. dissertation, University of Arizona; Ann Arbor, University Microfilms Order DBJ77-02313 and Lysonski, J. C., 1980, The IGSN 71 Residual Bouguer Gravity Anomaly Map of Arizona: M.S. thesis, University of Arizona). The residual gravity anomaly values are the differences between the regional gravity values and the complete Bouguer anomaly values.

Financial assistance for the production of this map was provided by the U.S. Department of Energy, Division of Geothermal Energy under contracts EG-77-S-02-4362 through the State of Arizona, Bureau of Geology and Mineral Technology, Geological Survey Branch, Geothermal Group; by the Nuclear Regulatory Commission under contract NRC-04-78-269; by the U.S. Geological Survey under grants 14-08-0001-G-526 and 14-08-0001-G-527; by the U.S. Geological Survey under grants 14-08-0001-G-526 and 14-08-0001-G-527; and by the University of Arizona Geophysical Society.



Two-harmonic Fourier trend surface of topography

Bouguer corrected by the following equation:

$$g_{BC} = -2\pi G \rho (EL_S - EL_R) + CC + TC$$

where:

G = universal gravitational constant

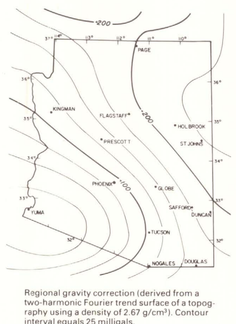
ρ = 2.67 g/cm³

EL_S = station elevation

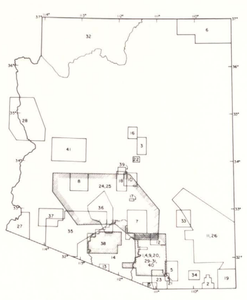
EL_R = regional elevation

CC = curvature correction using ($EL_S - EL_R$) as thickness of slab

TC = terrain correction



Regional gravity correction (derived from a two-harmonic Fourier trend surface of a topography using a density of 2.67 g/cm³). Contour interval equals 25 milligals.



Index map of sources of data

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Published by Laboratory of Geophysics
The University of Arizona
Tucson, AZ 85721

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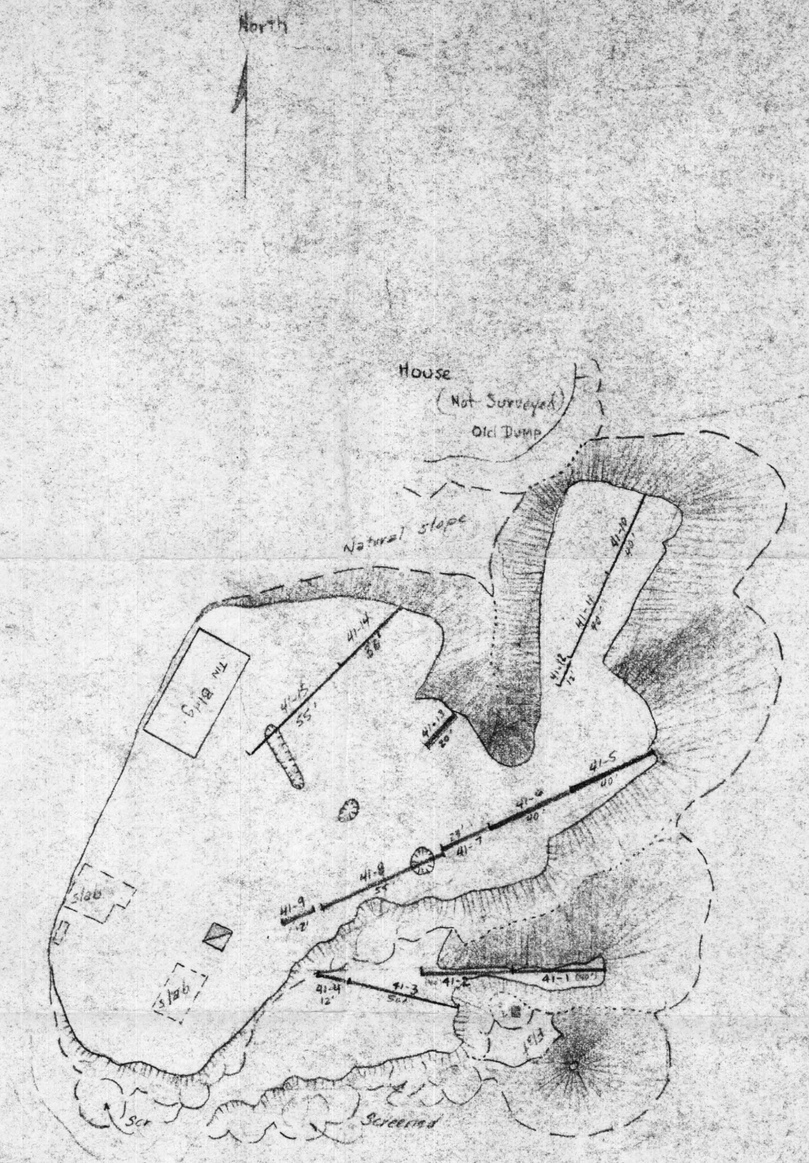
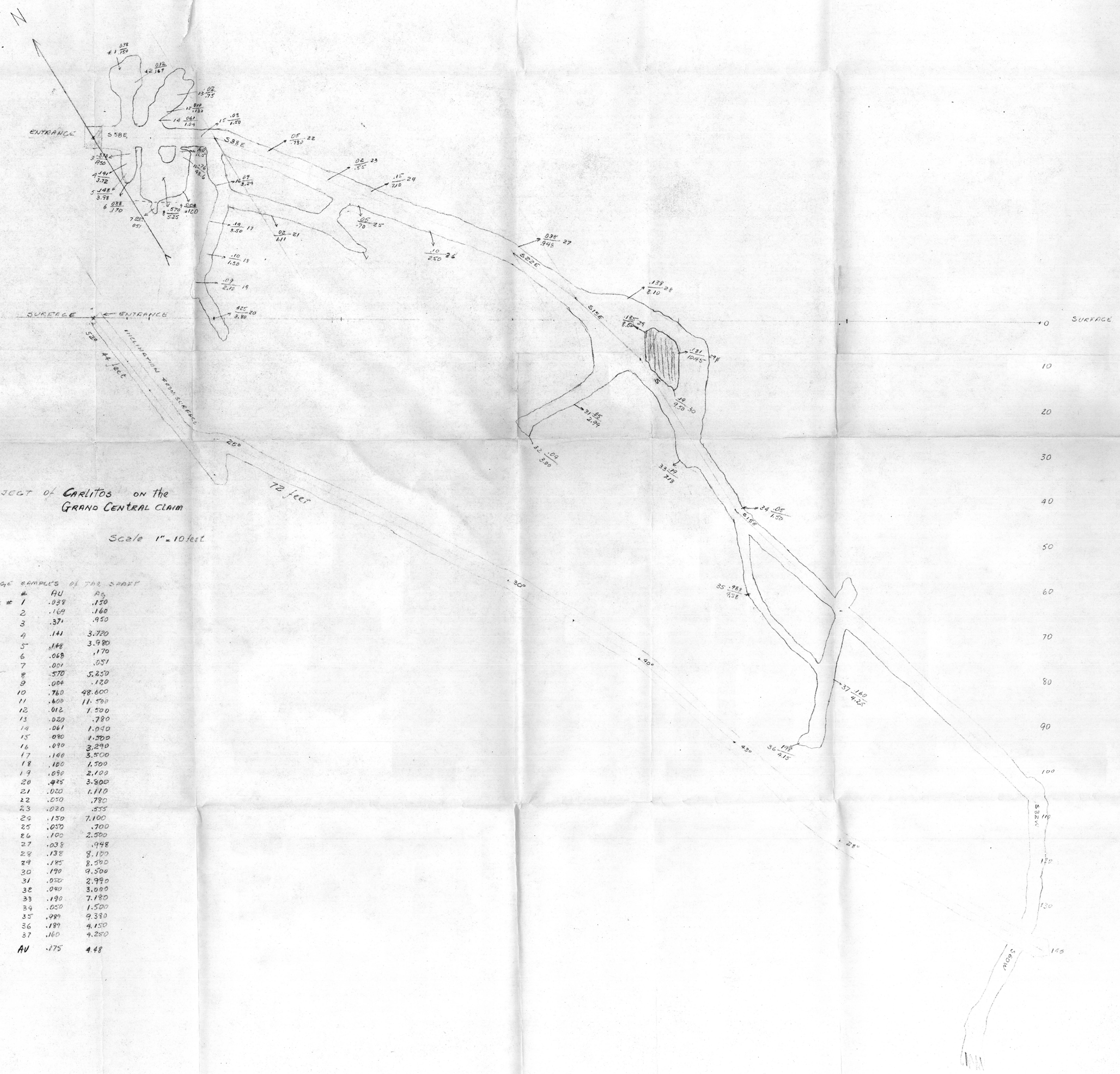
EMPIRE
DUMP No. 41
SCALE 1"=50'



DUMP No 41
Empire
1" = 50'

JRB 1973

CARLITOS SHAFT



PROJECT OF CARLITOS ON THE GRAND CENTRAL CLAIM

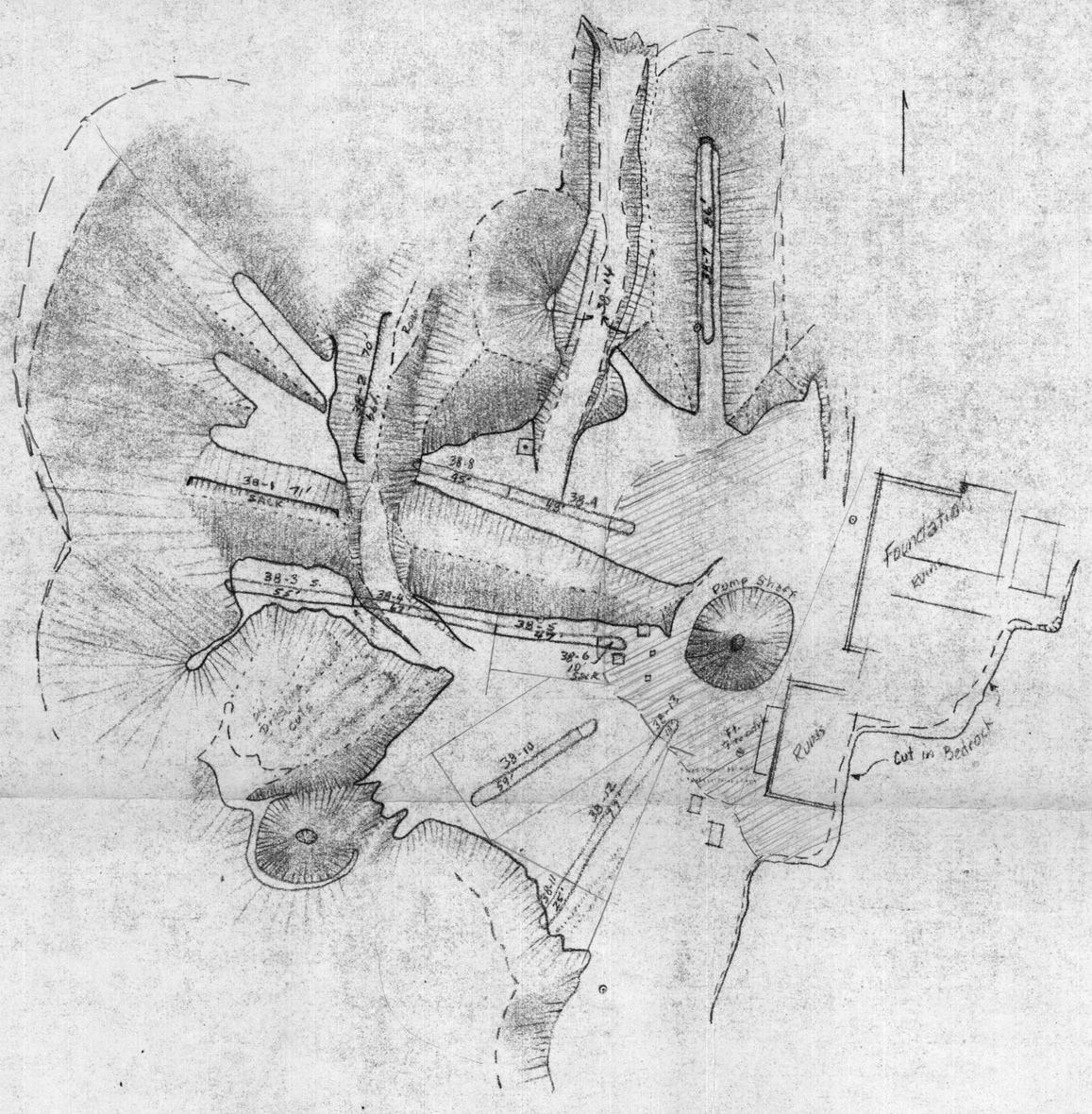
Scale 1" = 10 feet

AVERAGE SAMPLES OF THE SHAFT

	#	AU	AG
SAMPLE #	1	.038	.150
	2	.169	.160
	3	.371	.950
	4	.141	3.720
	5	.148	3.980
	6	.068	.170
	7	.001	.051
	8	.570	5.250
	9	.004	.120
	10	.760	48.600
	11	.600	11.500
	12	.012	1.500
	13	.020	.780
	14	.041	1.090
	15	.080	1.500
	16	.090	3.290
	17	.160	3.500
	18	.100	1.500
	19	.090	2.100
	20	.425	3.800
	21	.020	1.110
	22	.030	.780
	23	.020	.555
	24	.150	7.100
	25	.050	.700
	26	.100	2.500
	27	.038	.948
	28	.138	8.100
	29	.195	8.590
	30	.190	9.500
	31	.050	2.990
	32	.090	3.000
	33	.190	7.180
	34	.050	1.500
	35	.989	9.330
	36	.189	4.150
	37	.160	4.250
	AV	.175	4.48

17933

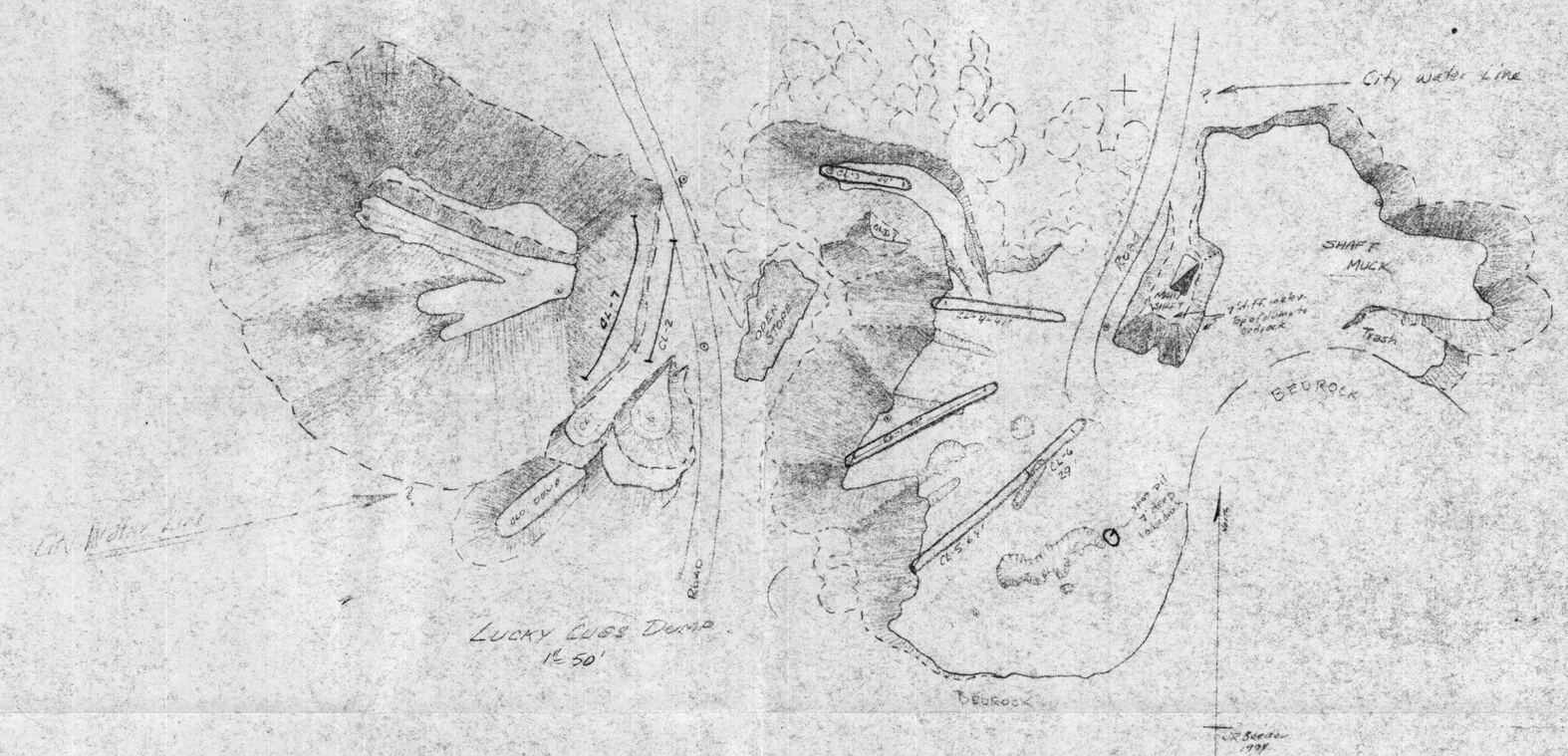
CARLITOS SHAFT
GRAND CENTRAL CLAIM
SCALE 1" = 10'

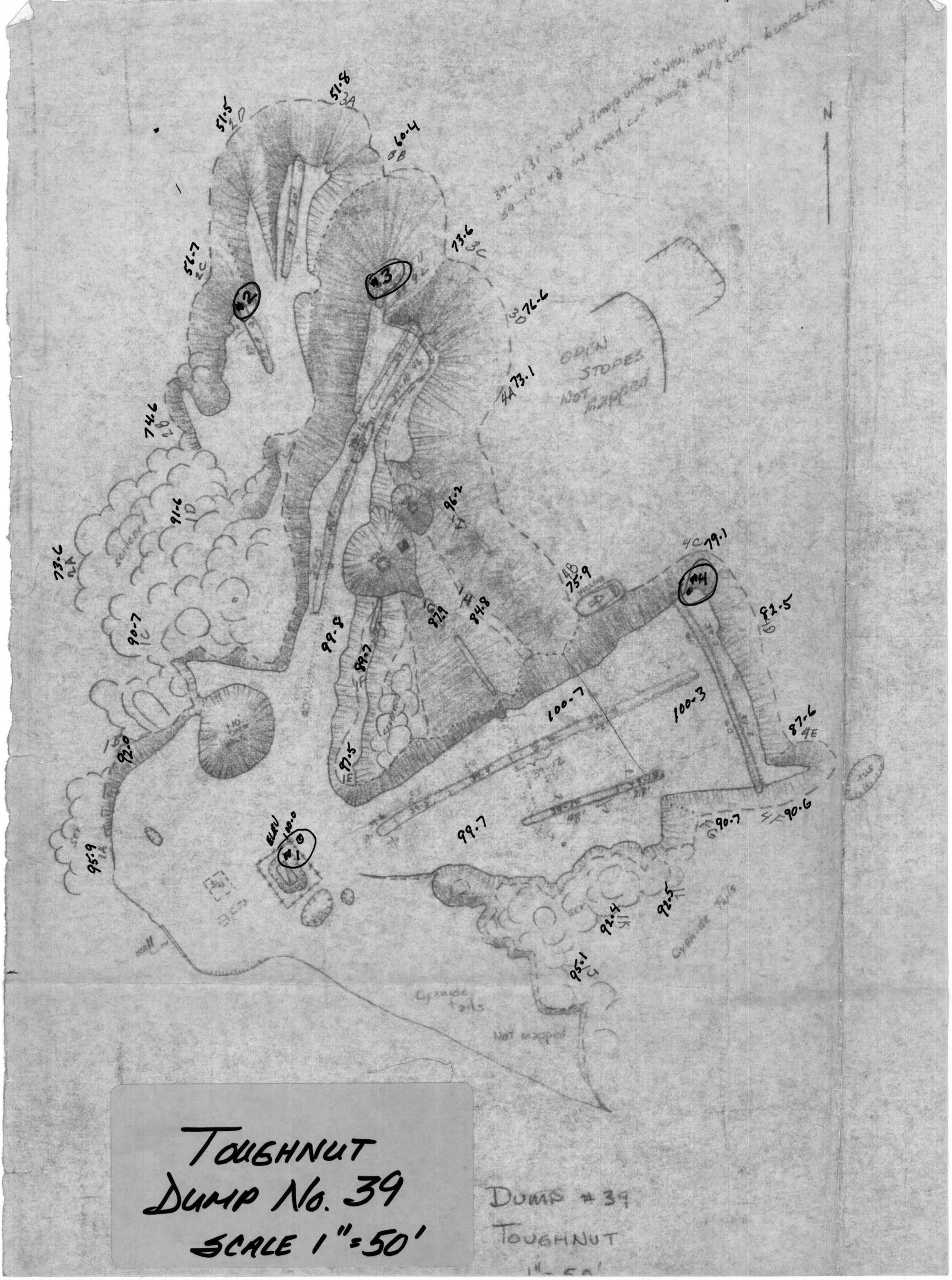


Dump No 38

Grand Central
Dump
No. 38

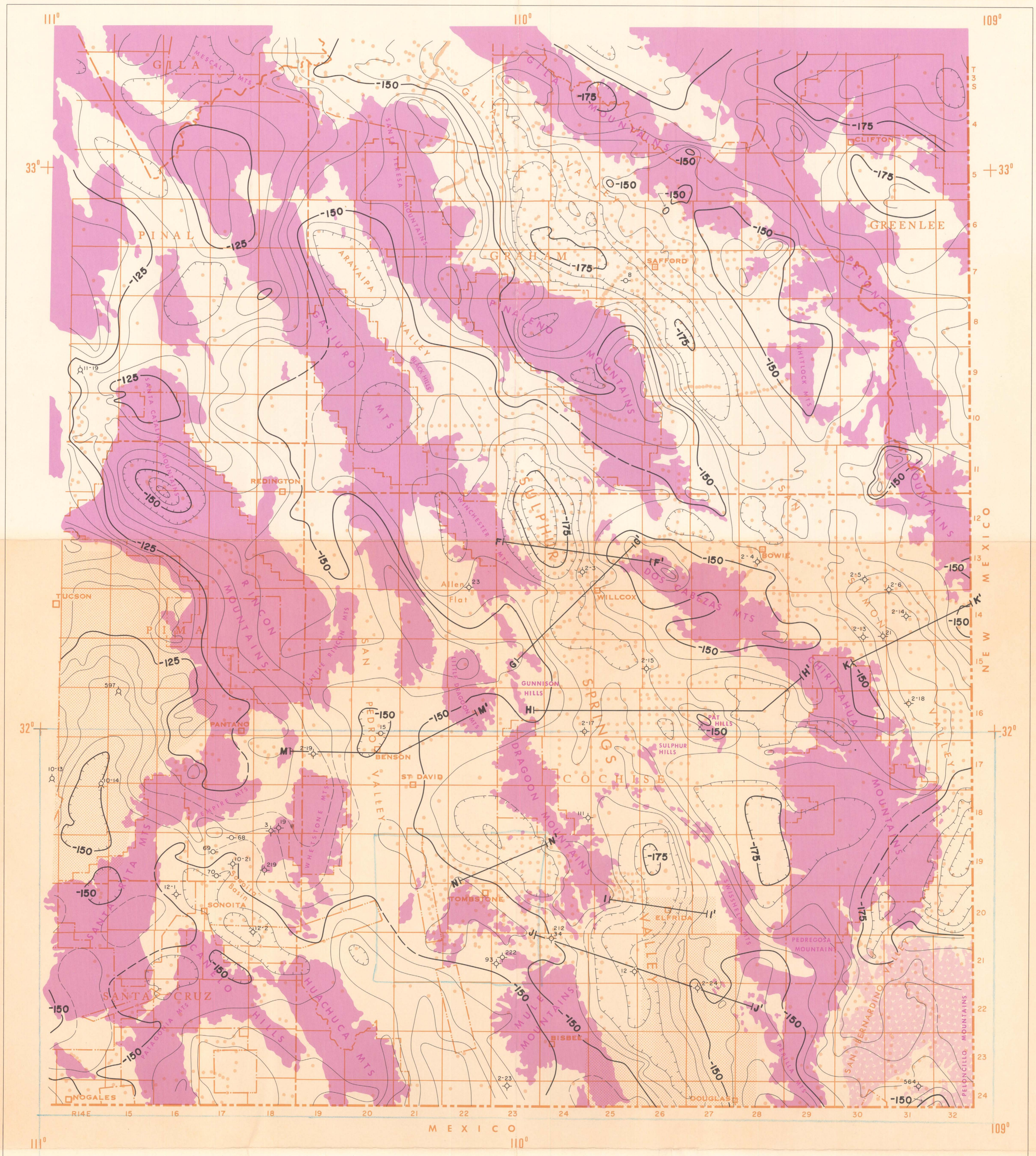
LUCKY CUSS DUMP
SCALE 1" = 50'





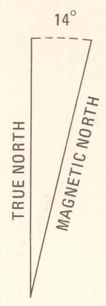
TOUGHNUT
DUMP No. 39
SCALE 1" = 50'

DUMP #39
TOUGHNUT
1" = 50'



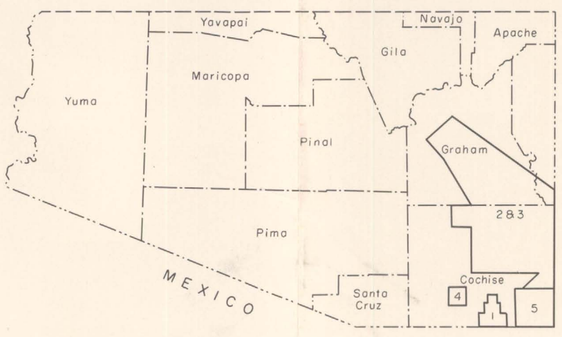
EXPLANATION

- GRAVITY STATION, INTERVAL RANGE VARIABLE
- AREAS WITH STATION INTERVAL LESS THAN ONE MILE
- 150 GRAVITY CONTOUR LINE
- K—K' LINE OF GRAVITY PROFILE
- DRILL HOLES; OBJECTIVES, AND IDENTIFICATION NUMBERS:
  - 212 PETROLEUM
  - 597 STRATIGRAPHIC OR MINERAL INFORMATION
  - 15 WATER
- CENOZOIC SEDIMENTARY DEPOSITS
- PRE-CENOZOIC SEDIMENTARY, VOLCANIC AND INTRUSIVE ROCKS (Areally small outcrops in valleys not shown)
- SAN BERNARDINO VOLCANIC FIELD



APPROXIMATE MEAN DECLINATION

INDEX MAP OF GRAVITY DATA SOURCES



SOURCES OF DATA

1. Andrews Geophysical Company and Copeland, J. L., 1950, Gravity survey of Sulphur Springs Valley area, Cochise County, Arizona: Dallas, Texas.

2. Eaton, G. P., and Timmons, C. E., 1966, Principal facts for gravity stations in Safford and San Simon Valleys, Arizona: U. S. Geological Survey open-file report.

3. Peterson, D. L., 1966, Principal facts for gravity stations in Sulphur Springs Valley, Arizona: U. S. Geological Survey open-file report.

4. Spangler, D. P., 1969, A geophysical study of the hydrogeology of the Walnut Gulch Experimental Watershed, Tombstone, Arizona: Ph.D. dissertation, University of Arizona: Ann Arbor, University Microfilms Order #69-18, 411, 103 p.

5. Lynch, D. J., 1972, Reconnaissance geology of the San Bernardino volcanic field, Cochise County, Arizona: unpublished M.S. thesis, University of Arizona, 78 p.

BOUGUER GRAVITY ANOMALY MAP OF SOUTHEASTERN ARIZONA

1973

PREPARED BY
ROBERT E. WEST, JOHN S. SUMNER AND CARLOS L. V. AIKEN
IN COOPERATION WITH
J. N. CONLEY

Gravity data were obtained from surveys by the Laboratory of Geophysics of The University of Arizona, U. S. Geological Survey, U. S. Defense Mapping Agency and exploration companies and contractors. The index map shows the primary sources of data for particular areas. A density of 2.67 gm/cm^3 was used for the Bouguer corrections. Terrain corrections are not included in the Bouguer anomaly values except where calculated by the original source of the data.

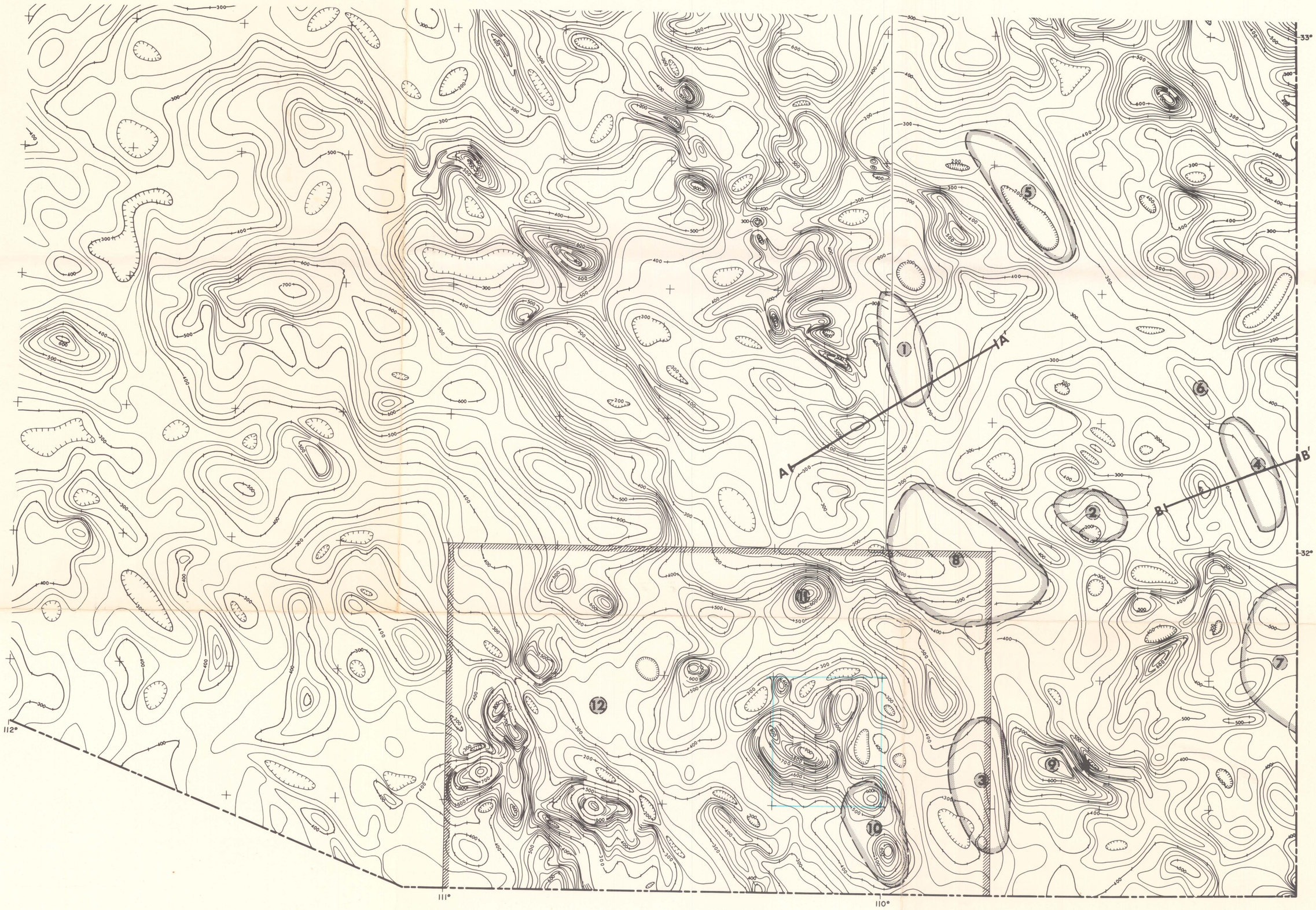
Financial assistance for production of this map was provided by the State of Arizona Oil and Gas Conservation Commission, the Four Corners Regional Commission, the National Science Foundation, AMAX Exploration Company, Exxon Corporation, The University of Arizona, the Arizona Water Resources Research Center, and the U. S. Defense Mapping Agency.

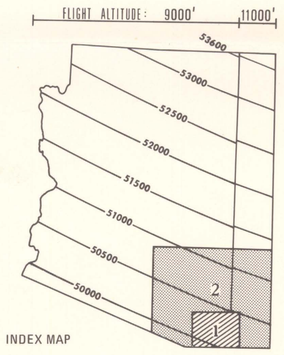
SCALE 1:500,000

10 0 10 20 30 MI

CONTOUR INTERVAL 5 MILLIGALS

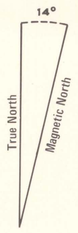
BASE BY U.S. GEOLOGICAL SURVEY, 1955
LAMBERT CONFORMAL CONIC PROJECTION,
STANDARD PARALLELS 33° AND 45°





INDEX MAP

Regional Magnetic Field subtracted
from Arizona Magnetic Data



RESIDUAL AEROMAGNETIC MAP OF SOUTHEASTERN ARIZONA

SCALE 1:500,000

10 0 10 20 30 MILES

CONTOUR INTERVAL 25 GAMMAS
FROM
WILLIAM A. SAUCK AND JOHN S. SUMNER

1970

Explanation

A—A' Magnetic profile

Numbered magnetic anomaly

Outline of numbered magnetic anomaly

1. Andreason, G.E., Mitchell, C.M., and Tyson, N.S., 1965, Aeromagnetic map of Tombstone and vicinity, Cochise and Santa Cruz Counties, Arizona: U.S. Geological Survey open-file preliminary map.
2. Area of Report.

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
CENTRAL MERIDIAN 111°W, INTERNATIONAL SPHEROID