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Arizona Geological Survey
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602-771-1601
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PRELIMINARY MAGNETIC RECONNAISSANCE

North Santa Rita Mountains
Pima County, Arizona

for

INSPIRATION CONSOLIDATED COPPER COMPANY
Inspiration, Arizona

March 1962

by
HEINRICHS GEOEXPLORATION COMPANY
P. O. Box 5671 Tucson, Arizona

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Conclusions & Recommendations	1
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In Pocket-----Location and coverage Map.

INTRODUCTION

The Mobile Magnetometer was used on March 23 and 28, 1962 to obtain magnetic coverage on roads and trails on the north end of the Santa Rita Mountains, primarily to investigate the possibility of locating important magnetic anomalies around or near the mineralized zone that includes, among others, the Hayward Sulfide Mine, the Cuprite Mine and the Joe Friday mine. Coverage was essentially in Township 17 South, Ranges 15 and 16 East and is shown on the accompanying map.

CONCLUSIONS AND RECOMMENDATIONS

Certain salient features were located or noted by or during the traverses. Our interpretation of the degree of significance of these is incorporated in the following tabulation and in the subsequent section on interpretation.

1. There is considerable magnetic anomalism in much of the area with the magnetic gradient often changing quite rapidly in fairly short ground distances and to a considerable degree of intensity.

2. Because of so much anomalism we are not able, at this stage, to separate out many individual anomalies as distinct, isolated or unique.

3. Formation and structural changes are rather clearly defined magnetically.

4. Geology apparently is complex and includes thick sedimentary sections, several stages or ages of intrusives, and a strong contact metamorphic zone on or along which the known mineralization is concentrated.

5. The Cuprite Mine as shown on the Empire Mountains Topographic quadrangle is apparently not the one referred to by Schrader and Hill in "Mineral Deposits of the Santa Rita and Patagonia Mountains", 1915. Probably the one they refer to is on a hill about 2,000 ft. northwest of the mine so named on the quad.

6. Schrader mentions some interesting sounding deposits in the area. We did not have time to look at many of them but did see some interesting mineralization.

7. The area has some potential and should eventually be considered for further evaluation, especially whereby reconnaissance, semi-detailed geology is done first, then possibly further geophysical techniques applied to more restricted areas.

8. We do not recommend any additional magnetic coverage at this time.

9. Purely from what little we saw on the ground in such a short time, from published geology, and from this preliminary magnetic coverage, Section 17, T 17S, R 16 E and/or the surrounding adjacent sections appear to be a possible favorable zone both of structural - formational intersection and as the northern

extension of the metamorphosed limestone - garnet zone the northerly exposure of which includes the Helvetia Limestone Quarry and the Joe Friday Mine, both in Section 21. And somewhat incidentally, Ridge Mining Company (Texas Gulf Sulphur) staked considerable ground here in 1958 as the Alpha claim group and reportedly had an induced polarization survey and some drilling which penetrated sulfide. We saw one drill hole near the west section line of Section 16.

INTERPRETATION

Record #1: Shows only deep basement changes to just north of Johnson Ranch where a broad high reflects shallowing basement, probably granite, with a peak about 1/4 mile north of the ranch that possibly is a contact zone with sediments to the south and southeast.

Record #2: Starts in the valley and reflects deep alluvium until near outcrop when the basement shallows, as reflected by a broad rise followed by anomalous peaks of 300 - 400 gammas. These can be related to granite both buried and exposed.

Record #3: Similar to #2. In conjunction with other records and other available information there appears to be a granite (?) ridge NE-SW along the northwest edge of the mountains.

Record #4: Much anomalism but little in the way of definite anomalies of interest. Both east and west of abandoned house--

--Estrada Ranch??-- is a broad high and possibly is more dioritic than granitic but only igneous rocks were noted. In Section 28 near a couple of small metal tanks and/or feeding stations is a sharp anomaly probably due to a magnetite dike (or fault) near surface and nearly vertical. Actual high is over 1,000 gammas. Maximum deviation is about 1,750 gammas. Strike is unknown but could head toward or near Cuprite Mine.

Record #5: A run to and around the mine shown on the quad as Cuprite, and although some anomalism exists, it is not strong or isolated.

Record #6: Quite anomalous. Any of several peaks could be significant, but the region taken as a whole, it appears to be just a reflection of granitic rocks and their margins. Possibly the first and last anomalies may be the more significant, if any are.

Record #7: Again, considerable variance but no one part stands out as especially significant.

Record #8: Same as for #7.

Record #9: Deep basement highs out in valley to north.

Record #10: Much structural and formational anomalism but not much in the way of significant anomalies. Near the end of the record is a classic one of 350 gammas from a vertical cause 100 or less feet wide, but there is apparently little mineralization near here so interest may be almost entirely academic.

Record #11: As others--anomalous, no anomaly.

Record #12: As others--anomalous, no anomaly.

Record #13: As others--anomalous, no anomaly.

Record #14: As others--anomalous. Somewhat significant is rise in level north of Section Corner 17/16 20/21 . From surface geology is is known a major contact and trend comes through here. Because of this and copper shows in workings SE of here, it may be the most significant zone encountered.

Record #15: Anomalous, no anomaly.

Record #16: Anomalous, no anomaly.

Record #17: Anomalous, no anomaly.

SUMMARY

No further magnetics should be done except detail on some part of the area selected by other means. However, when the Inspiration geologists are mapping in the area they would find it useful and expedient to have these magnetic profiles along and correlate them with outcrops along the traverses.

Respectfully submitted,

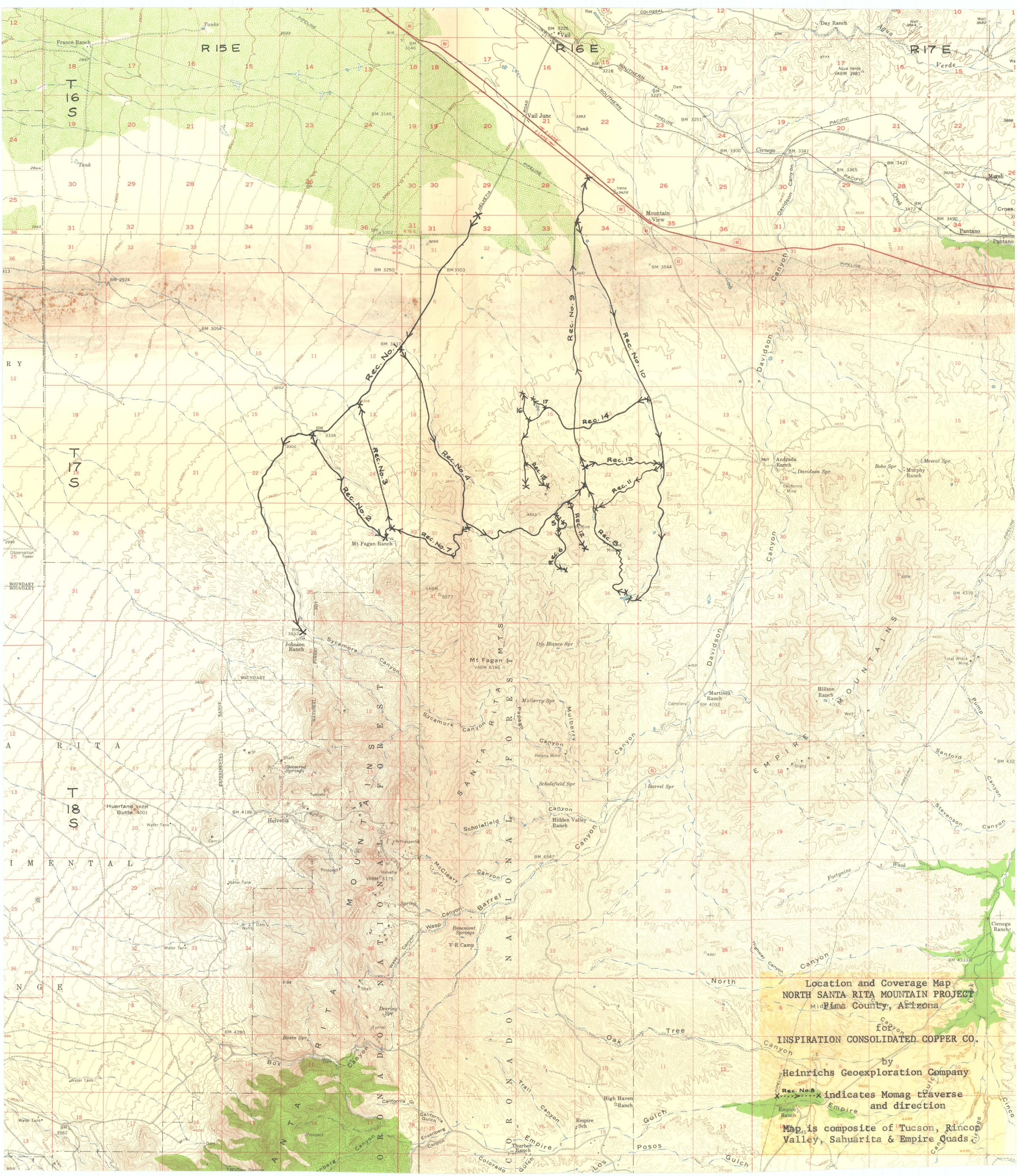
HEINRICHS GEOEXPLORATION COMPANY

J. W. Marlatt

J. W. Marlatt, Geologist

W. E. Heinrichs, Jr.
President & General Manager

April 9, 1962
P. O. Box 5671
Tucson, Arizona


Location and Coverage Map
NORTH SANTA RITA MOUNTAIN PROJECT
Pima County, Arizona
for
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Rec. No. 8
x····>····x indicates Momag traverse and direction
Map is composite of Tucson, Rincon Valley, Sahuarita & Empire Quads
R 15 E
R 16 E
R 17 E
T 16 S
T 17 S
T 18 S
Franco Ranch
Vail
Vail Junc
Mountain View
Day Ranch
Aqua Verde
Pantano
Marsh
Cross
Irene
Davidson Canyon
Cienega
Rec. No. 1
Rec. No. 2
Rec. No. 3
Rec. No. 4
Rec. No. 6
Rec. No. 7
Rec. No. 9
Rec. No. 10
Rec. 11
Rec. 12
Rec. 13
Rec. 14
Rec. 15
Mt Fagan Ranch
Johnson Ranch
Mt Fagan
Ojo Blanco Spr
Mulberry Spr
Helena Mine
Scholefield Spr
Barrel Spr
Hidden Valley Ranch
Martinez Ranch
Hillton Ranch
Andrada Ranch
Davidson Spr
California Mine
Bobo Spr
Mescal Spr
Murphy Ranch
Total Wreck Mine
Empire
Empire Ranch
Empire Sch
Thurber Ranch
High Haven Ranch
Posos
Los
Colorado
Enzenberg
California Gulch
Sycamore Canyon
Helvetia
Huerfano Butte
Shamrod Spring
Rosemont Springs
V-R Camp
Deering Spr
Basin Spr
Cienega Ranch
Sanford
Stevenson
Fortynine Wash
Highway Canyon
North
Oak
Tree
Box
Barrel
Wasp
McCleary
Scholefield
Trail
Gulch
Canyon
Observation Tower
BOUNDARY
SANTA RITA MOUNTAINS
CORONADO NATIONAL FOREST
EMPIRE MOUNTAINS
EXPERIMENTAL RANGE
NATIONAL FOREST BOUNDARY

PRELIMINARY MAGNETIC RECONNAISSANCE

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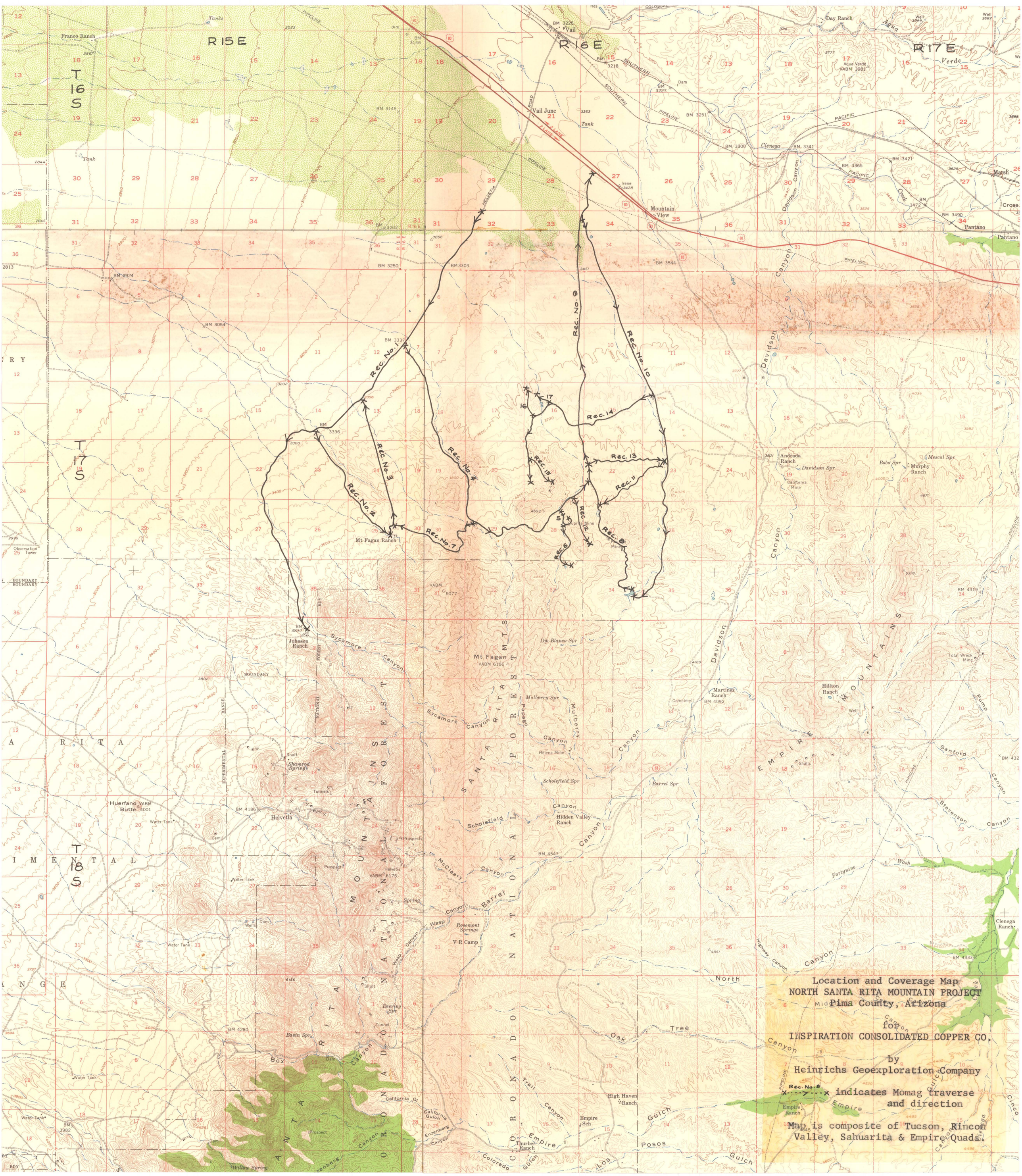
Location and Coverage Map
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by
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Rec. No. 8
X---X---X indicates Momag traverse and direction
Map is composite of Tucson, Rincon Valley, Sahuarita & Empire Quads.
R 15 E
R 16 E
R 17 E
T 16 S
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T 18 S
Rec. No. 1
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Rec. No. 3
Rec. No. 4
Rec. No. 5
Rec. No. 6
Rec. No. 7
Rec. No. 9
Rec. No. 10
Rec. 11
Rec. 12
Rec. 13
Rec. 14
Rec. 15
Rec. 16
Rec. 17
Franco Ranch
Vail
Vail Junc
Mountain View
Irene
Day Ranch
Aqua Verde
Cienega
Davidson Canyon
Pantano
Cross
Marsh
Mt Fagan Ranch
Mt Fagan
Johnson Ranch
Andrada Ranch
Murphy Ranch
Hillton Ranch
Martinez Ranch
Helvetia
Shamrod Springs
Huerfano Butte
Hidden Valley Ranch
V R Camp
Rosemont Springs
High Haven Ranch
Empire Ranch
Thurber Ranch
Cienega Ranch
Total Wreck Mine
Santa Rita Mountains
Empire Mountains
Observation Tower
Sycamore Canyon
Scholefield Canyon
Barrel Canyon
Mulberry Canyon
Davidson Canyon
Stevenson Canyon
Santford Canyon
Fortymine Wash
Highway Canyon
North Canyon
Oak Tree Canyon
Box Canyon
Posos Gulch
Los Colorados Gulch
Empire Gulch
Colorado Gulch
Enzenberg Canyon
California Gulch
Trail Canyon
Wasp Canyon
McCleary Canyon
Helena Mine
Scholefield Spr
Barrel Spr
Mulberry Spr
Ojo Blanco Spr
Deering Spr
Basin Spr
Willow Spring
Davidson Spr
Bobo Spr
Mescal Spr
Pump Canyon
Cienega Creek
Empire Sch
Cemetery
Tunnels
Shafts
Prospects
Water Tank
Dam
Wells
Spring
Tank
Tanks
Well
Res
Colossal
Southern Pipeline
Pacific
Road
Helvetia
Experimental Range
Boundary
Forest
Eby
Coronado National Forest
Santa Rita Mountains
Santa Rita Experimental Range
Observation Tower
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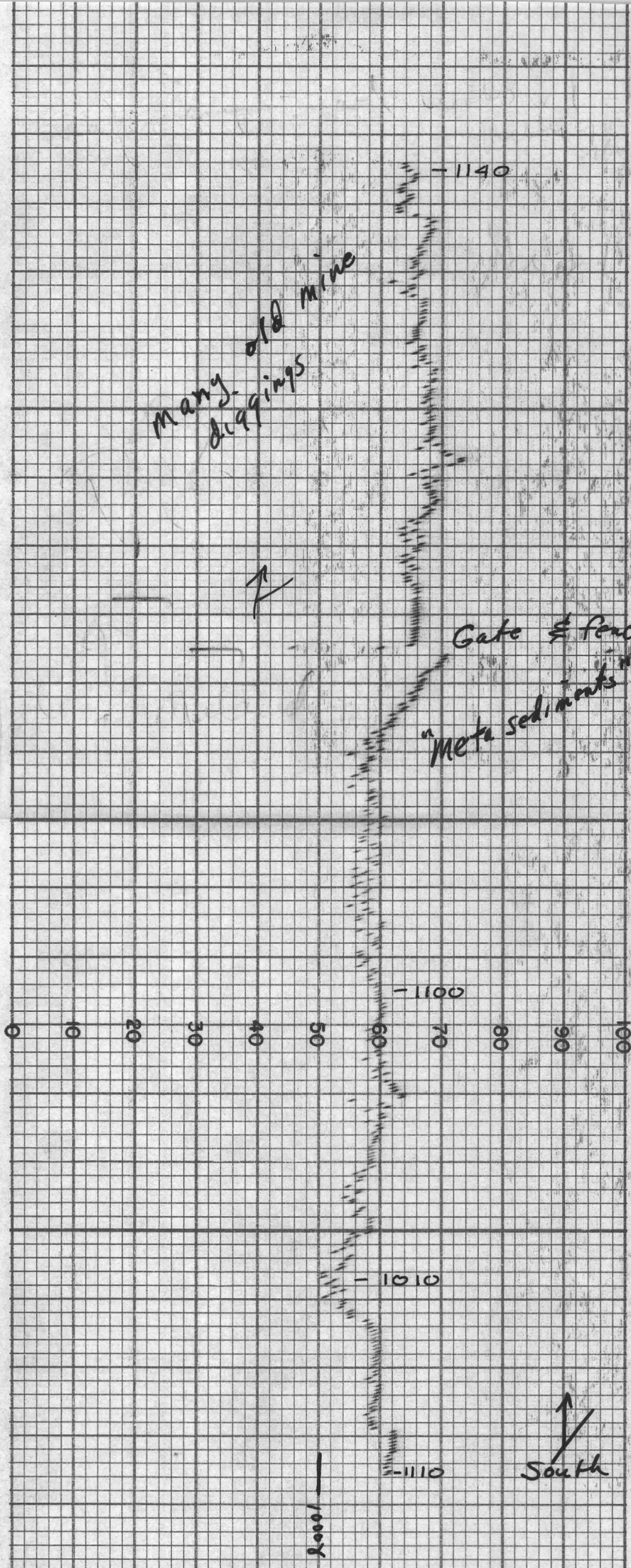
Experimental Range
Boundary
Forest
Eby
Coronado National Forest
Santa Rita Mountains
Santa Rita Experimental Range

Dam at stock pond in sec. 34 where Rock was stained
ROAD JUNCTION
Such a classic curve should be checked for where a dolomite is quarried
ROAD JUNCTION
Meta sediments
Limestone
Interbedded limestone & shale standing vertical
Limestone
Meta sediments ?
Meta sediments ?
Limestone
Limestone
Latite ?
Rocks are rusty
Meta sediments
Gate & water tank
Sedimentary outcrop
ROAD JUNCTION
OUTCROP
Granite
concrete watering tank
ROAD JUNCTION
Alluvium
Alluvium
corral & windmill where metal pipe line starts
ROAD JUNCTION
WASH
Stock tank
ROAD JUNCTION
gate
2" water pipe line buried exposed in rocky places
PIPE LINE
corral
stock tank
Southerly
MOMAG TOTAL MAGNETIC INTENSITY RECORD
FOR: Exploration Corp. Corpus Christi
RECORD NO. 10
DATE 12-29-67
SENSITIVITY 100
HORIZONTAL SCALE 2.5 FT/IN.
LOCATION Corral, Santa Rita Mine, Pima Co., Arizona
Southerly from a road junction in sec. 34, T16S, R16E. Stock watering tank in sec. 34, T16S, R16E where Rock was stained.

Southwest from a cement water tank in section 23 to a North-South Road in section 27 T17S R16E



MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: INSPIRATION CON. COPPER CO.

RECORD NO. 12 DATE 3-28-62

SENSITIVITY 100 GAMMAS /½ in S.D

HORIZONTAL SCALE 200 FT./in.

LOCATION NORTH SANTA RITA MTS. PIMA COUNTY, ARIZ.

Southerly from a road junction in section 21 to some mine workings along sec. line 28/27 T17S R16E

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: INSPIRATION CON. COPPER CO.

RECORD NO. 13 DATE 3-28-62

SENSITIVITY 100 GAMMAS / ½ in. S.D.

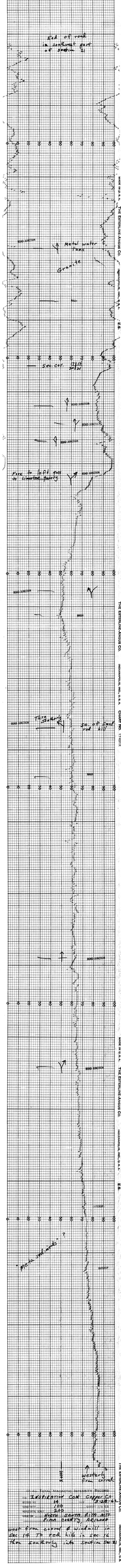
HORIZONTAL SCALE 200 FT./in.

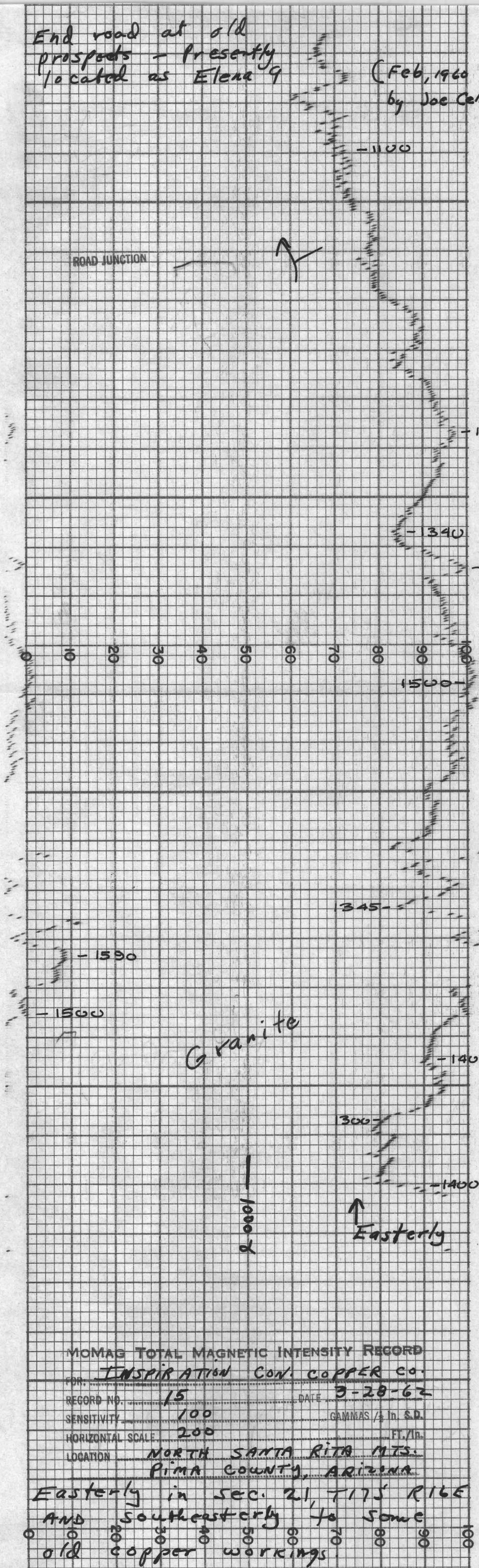
LOCATION NORTH SANTA RITA MTS. PIMA COUNTY, ARIZONA

East from a road in section 22 to a road in section 23

T 17S R16E.

MADE IN U.S.A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A.


End of road in southeast part of sheet 2
Metal water tank
Granite
Sec cor 11/16 2d 1/4
Fork to left and to limestone quarry
Tank
Sec. 18 2nd red hill
"Metal indicator"
Western corner
Base
Total magnetic intensity record
Instrument Con. Copper Co.
Date 7-28-64
Sheet 14
Line
Direction
Scale 1:100
Magnetic Scale 200
Location North Santa Rita Mts.
Pima County, Arizona
West from corner & westerly in Sec 17 to red hill in Sec 18 then southerly in Sec 18
The Eberbach Agency Co.
Instruments, Inc. U.S.A.
Chart No. 17AIX



THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. CHART NO. 17491X

MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: INSPIRATION CON. COPPER CO.

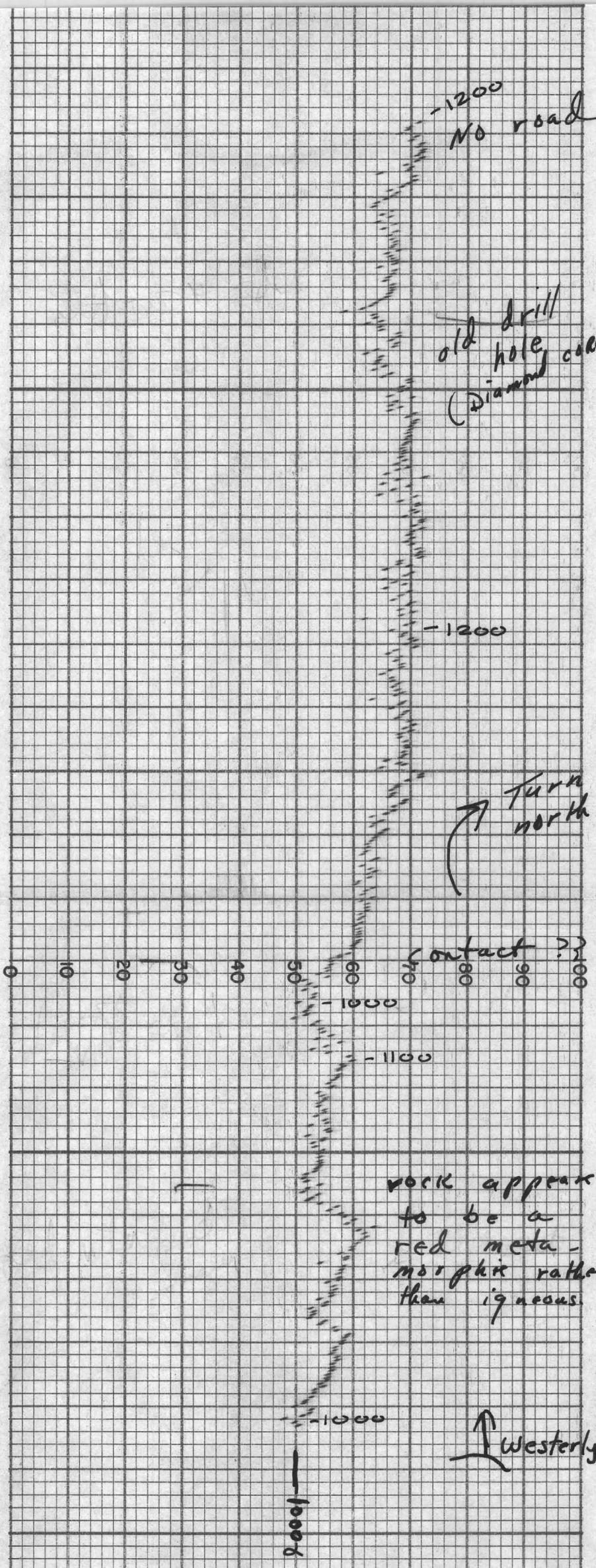
RECORD NO. 15 DATE 3-28-62

SENSITIVITY 100 GAMMAS / ½ In. S.D.

HORIZONTAL SCALE 200 FT./In.

LOCATION NORTH SANTA RITA MTS. PIMA COUNTY, ARIZONA

Easterly in SEC. 21, T17S R16E AND southeasterly to some old copper workings.



MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: INSPIRATION CON. COPPER CO.

RECORD NO. 16 DATE

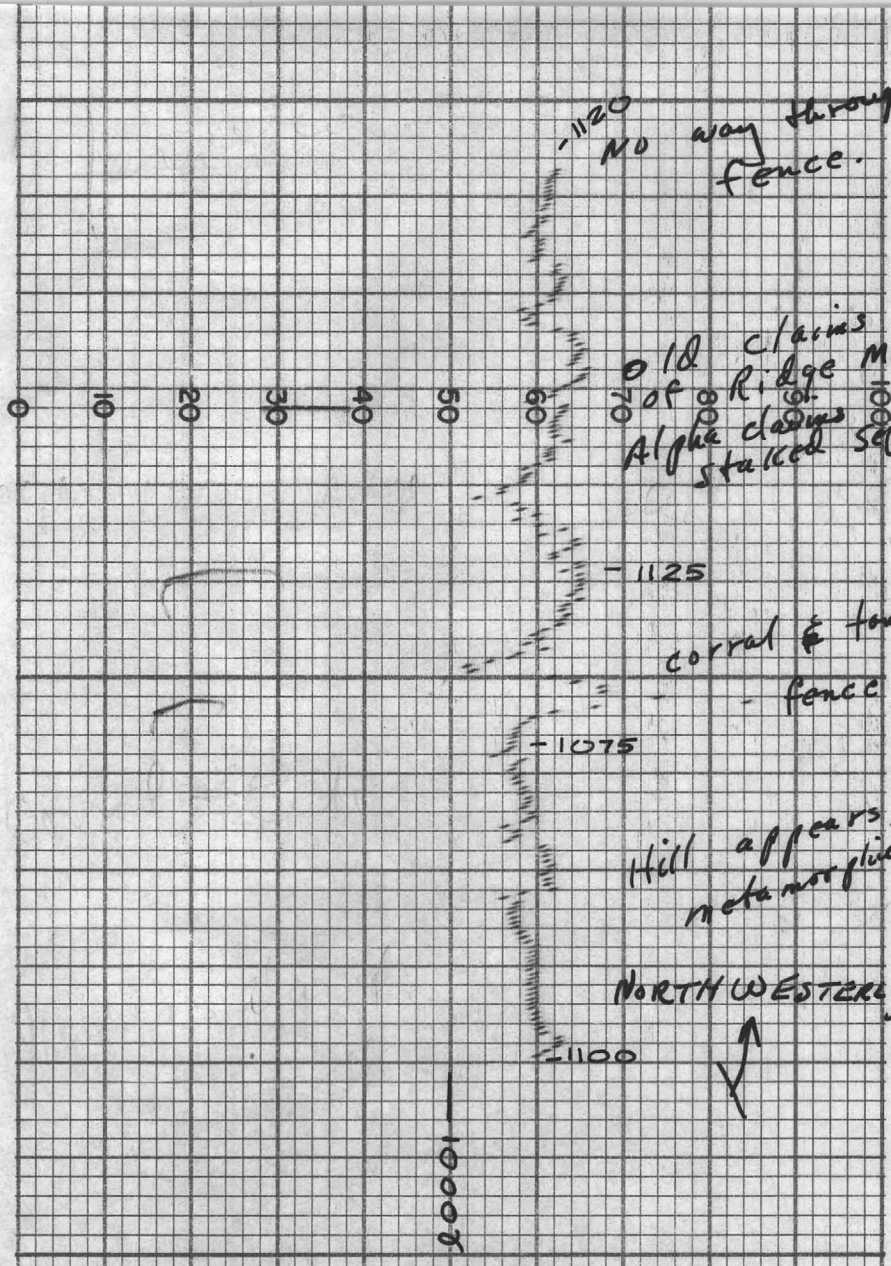
SENSITIVITY 100 GAMMAS /½ in S.D.

HORIZONTAL SCALE 200 FT./in.

LOCATION NORTH SANTA RITA MTS. PIMA COUNTY, ARIZONA

West and north around small red hill in sec. 16 T17S R 16E. This is the most westerly of three red hills.

MADE IN U.S.A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.



MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: INSPIRATION CON. COPPER CO.

RECORD NO. 17 DATE 3-28-62

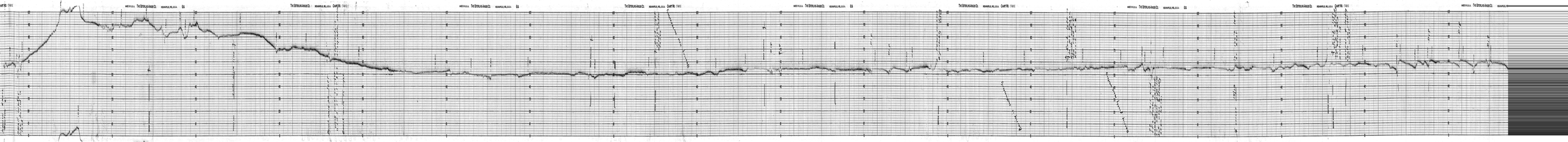
SENSITIVITY 100 GAMMAS / ½ in S.D.

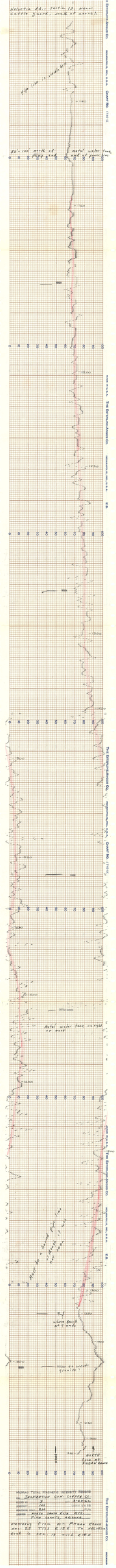
HORIZONTAL SCALE 200 FT./in.

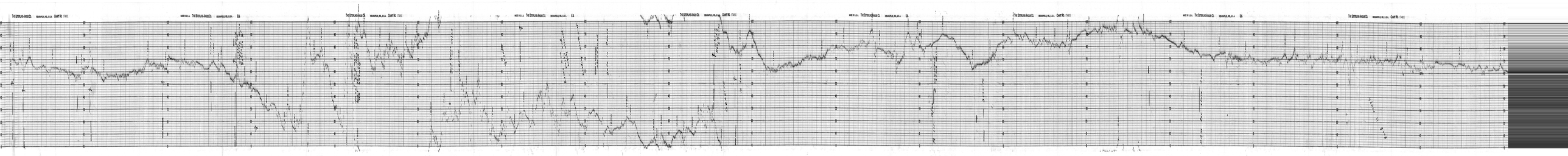
LOCATION NORTH SANTA RITA MTS.
PIMA COUNTY, ARIZONA

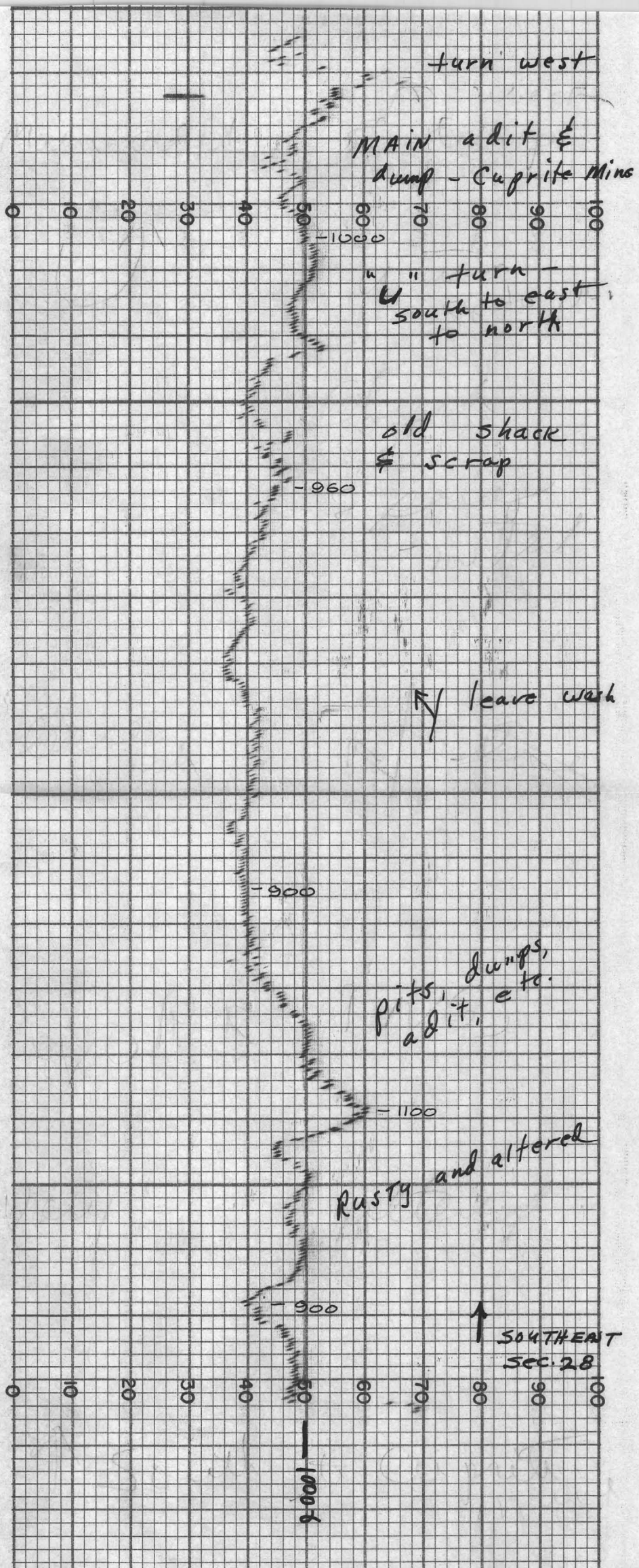
Northwesterly in Sec. 16 T17S R16E between two red hills.

THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. CHART NO. 17




Helvetia Rd. - Jan. 10 Mont
Earth Quake - Snow at Airport
Metal water tank
Metal water tank on roof
Mark Bank at Frank
Mark Bank Earth
Mark Bank Earth at Frank
Mark Bank Earth at Frank
The Ethridge-Angus Co.
Chart No.
Inspiration Cop Copper Co.
Pine Creek, Arizona
Mendenhall Ryan, Int. Mining Engrs.
Sec. 25 T17S R18E 7th Meridian
Km. N. 38 Mile Km.





MoMag Total Magnetic Intensity Record

FOR: INSPIRATION CON. COPPER CO.

RECORD NO. 5 DATE 3-23-62

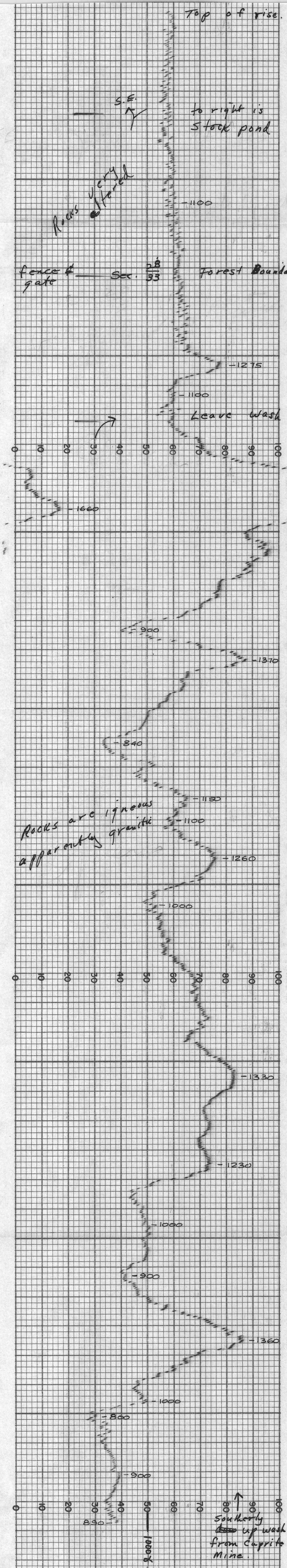
SENSITIVITY 100 GAMMAS /½ in. S.D.

HORIZONTAL SCALE 200 FT./in.

LOCATION NORTH SANTA RITA MTS.
PIMA COUNTY ARIZONA

From road junction in sec. 28
T17S R16E to CUPRITE MINE

MADE IN U.S.A. THE ESTERLINE-ANGUS



MOMAG TOTAL MAGNETIC INTENSITY RECORD

FOR: INSPIRATION CON. COPPER CO.

RECORD NO. 6 DATE 3-23-62

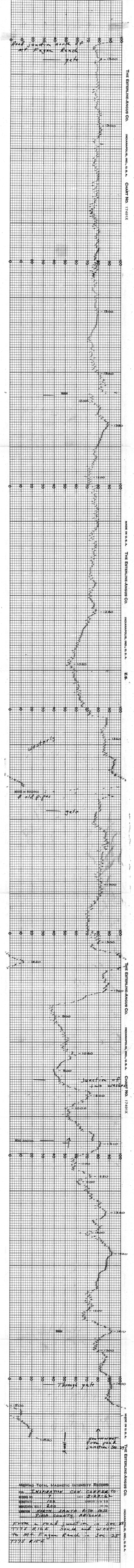
SENSITIVITY 100 GAMMAS /½ In. S.D.

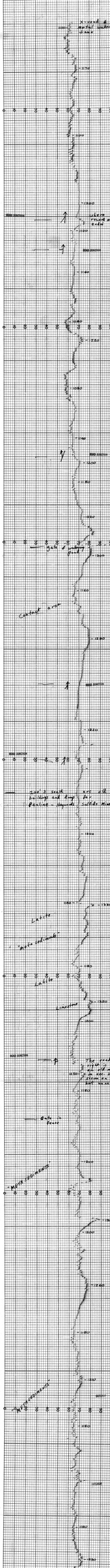
HORIZONTAL SCALE 200 FT./In.

LOCATION NORTH SANTA RITA MTS. PIMA COUNTY, ARIZONA.

From opposite Cuprite Mine sec. 28 south to near a stock watering pond in sec. 33 T 17S R16E

MADE IN U.S.A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.
THE ESTERLINE-ANGUS CO. INDIANAP


Red jasper area of M. Egan Ranch
gate
Junction of gate
Through gate
Through gate
Summit of Egan Ranch
NORMAL TOTAL MAGNETIC INTENSITY RECORD
FOR INSPIRATION CON. CORPORATION
DATE 2-22-64
OPERATOR TBR
OBSERVER
MAGNETIC MER. TBR
LOCATION NORTH SANTA RITA PLS
PIMA COUNTY, ARIZONA
FROM A POINT LOCATED IN SEC. 12
T17S R16E SOUTH AND WEST
TO M. Egan Ranch in Sec. 22
T17S R16E
THE EUTECTIC-ARGUS CO.
INDIANAPOLIS, IND. U.S.A.
CHART NO. 17201X

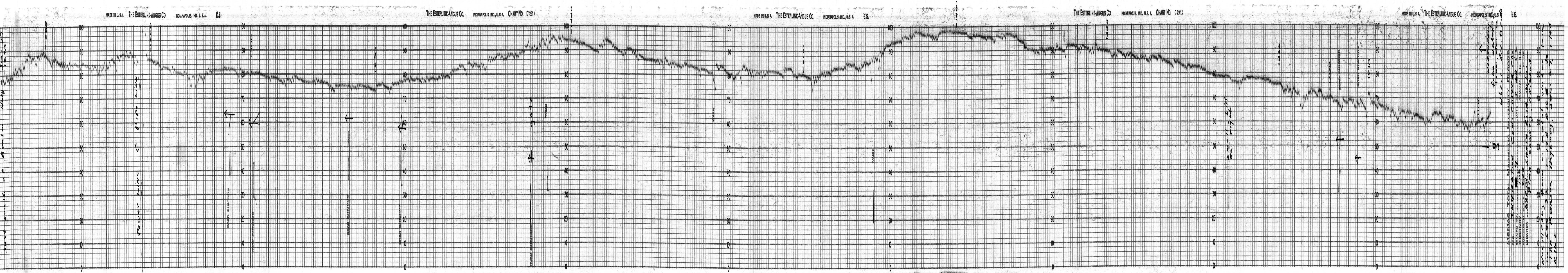


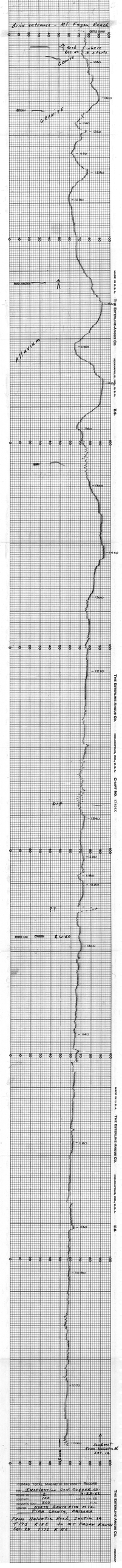
GENERAL TOTAL MAGNETIC INTENSITY REPORT

No. Exploration Corporation
Date 9-28-52
Time 1:00
Operator Lyon
Location NORTH SANTA RITA MTN.
PIMA COUNTY, ARIZONA

Working from a small house at foot in Sec. 35, T17S, R14E. This is your country rock & metal water tank in Sec. 35, T17S, R14E.

The Eutsler-Andrus Co. Chart No. 17501X


MADE IN U.S.A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.
THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. CHART NO. 1749IX
MADE IN U.S.A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.
THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. CHART NO. 1749IX
MADE IN U.S.A. THE ESTERLINE-ANGUS CO. INDIANAPOLIS, IND., U.S.A. E.S.



PROFILE TOPOGRAPHY - BATHYMETRY RECORDER
ON EXPLORATION CONT. COLORADO CO.
DATE 3-23-61
OPERATOR FOB
RECORDER EOB
LOCATION SOUTH SASKATCHEWAN R. IN.
PIMA COUNTY, ARIZONA
FROM NAVIGATION REACH, SECTION 16
TITLE A.L.C. 14 MT FRYER REACH
SEC. 20 TITLE K.L.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
TUCSON QUADRANGLE
ARIZONA–PIMA CO.
15 MINUTE SERIES (TOPOGRAPHIC)
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
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DAVIS MONTHAN AIR FORCE BASE
TUCSON AIRPORT
Vandenberg Village
Littletown
Wilmot
Sahuarita Butte
SAN XAVIER INDIAN RESERVATION
SANTA CRUZ VALLEY
SAGUARO NATIONAL MONUMENT
CORONADO NATIONAL FOREST
TANQUE VERDE
RINCON MOUNTAINS
RINCON VALLEY
Spud Rock
Rincon Pk
Wrong Mtn
Vail
Pantano
Mountain View
Colossal Cave
SAHUARITA BOMBING AND GUNNERY RANGE
Sahuarita
Duval
Continental
SANTA RITA EXPERIMENTAL RANGE
SANTA RITA MOUNTAINS
Mt Fagan
Helvetia
Greaterville
EMPIRE MOUNTAINS
Empire Ranch
Cienega Ranch
(TWIN BUTTES)
(TUBAC)
(MOUNT WRIGHTSON)
(ELGIN)
(BENSON)
(FT. HUACHUCA)
TD. 800'±
H.od 535
1690m
10/9/62
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by ER-55 plotter
Aerial photographs taken 1955–1956. Field check 1958
Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Dashed land lines indicate approximate locations
Unchecked elevations are shown in brown
SCALE 1:62500
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL
APPROXIMATE MEAN DECLINATION, 1958
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
ROAD CLASSIFICATION
Heavy-duty
Light-duty
Medium-duty
Unimproved dirt
U. S. Route
State Route
QUADRANGLE LOCATION
SAHUARITA, ARIZ.
N3145—W11045/15
1958
Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS and USCE
Topography from aerial photographs by ER-55 plotter
Aerial photographs taken 1955. Field check 1958
EMPIRE MOUNT