



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

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

09/24/85

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: POPE

ALTERNATE NAMES:

HORN SILVER
POPE-HALL

MOHAVE COUNTY MILS NUMBER: 165B

LOCATION: TOWNSHIP 27 N RANGE 21 W SECTION 8 QTR. S2
LATITUDE:N 35DEG 40MIN 11SEC LONGITUDE:W 114DEG 31MIN 03SEC
TOPO MAP NAME: MT PERKINS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD-(M) LODE-PRIMARY
SILVER-COPRODUCT
IRON-(M) TITANIFEROUS MAGNETITE
- BYPRODUCT
COPPER-BYPRODUCT

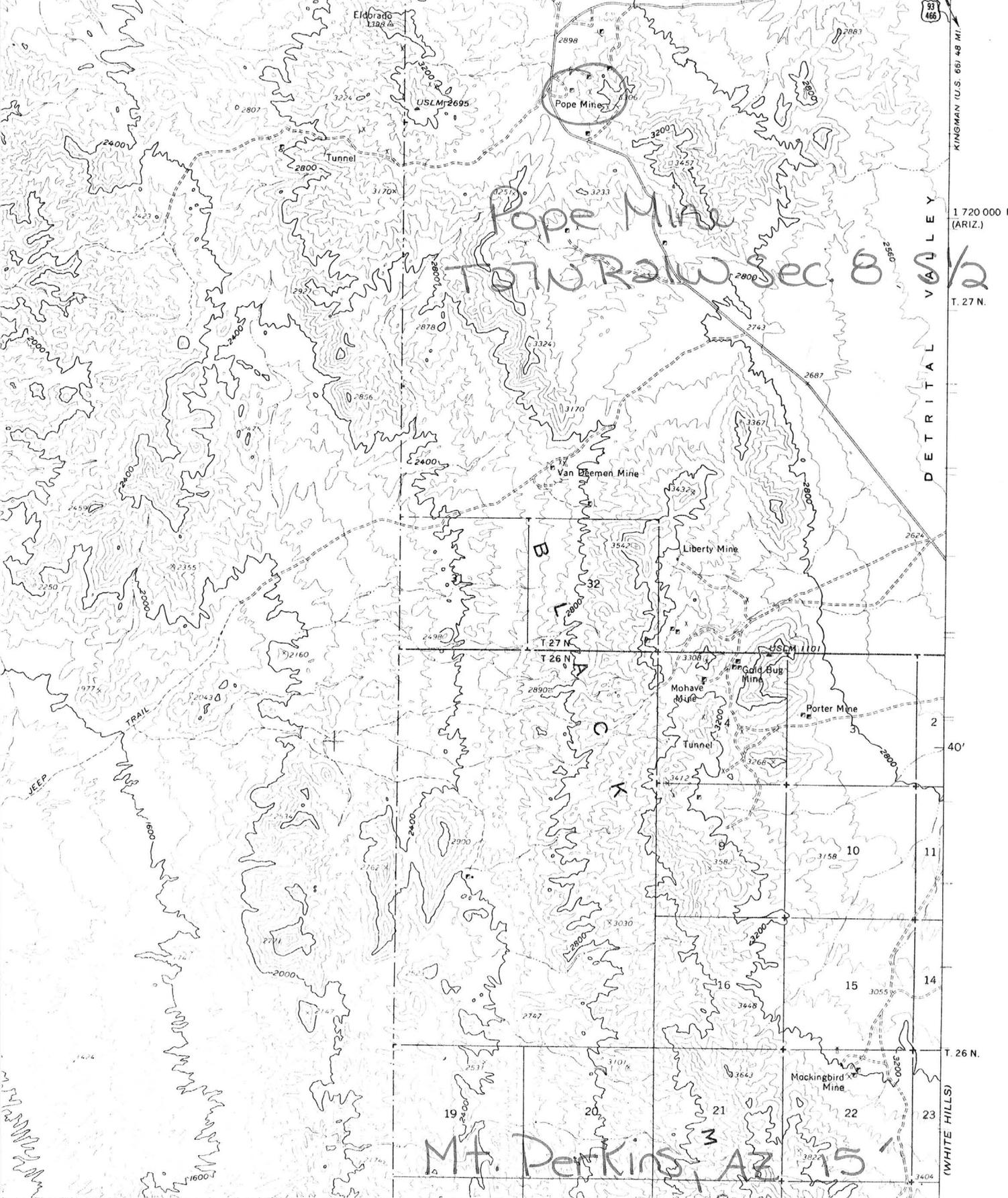
BIBLIOGRAPHY:

ADMMR POPE MINE
LONGWELL, CR. "RECONN. GEO. BETWEEN LAKE MEAD
& DAVIS DAM" USGS PP 374, P. E37; 1963
GARDNER, E.D. "GOLD MINING IN BLCK MTNS, AZ"
USBM IC 6901, P. 57; 1936
AZBM CLIPPING FILE POPE-HALL MINE
GREAT GEM JT VENTURE, VOL. 2, "MT. DAVIS AREA
1982
CHAMBERLAIN, P.G. "GOLD & SILVER LEACHING PRA
CTICES IN US" USBM IC 8969; P 23; 1984
AZ GEOLOGICAL SOCIETY SECTION "1984 FALL FIEL
D TRIP, STRUCTURE & MINERALIZATION OF KING-
MAN AREA" P. 53

MT. PERKINS QUADRANGLE
ARIZONA-NEVADA
15 MINUTE SERIES (TOPOGRAPHIC)

(SENATOR MOI)

ACK CANYON) 35' R 21 W. 270 000 FEET (ARIZ.) HOOPER DAM 27 MI. 114°30' 35°45'



Pope Mine
TOTO ROW Sec. 8

DETRITAL VALLEY
1 720 000 FEET (ARIZ.)
T. 27 N.

MT. PERKINS, AZ 15

(WHITE HILLS)

Name of Mine or Prospect Pope Mine	Township 27N	Range 21W	Section 8	Priority B
Principal Minerals: Gold, Silver	1:250,000 Quad Kingman		7.5' - 15' Quad Mt. Perkins	
Associated Minerals: Pyrite, Limonite, Azurite, Quartz, Calcite	District Weaver		Principal Product Gold, Silver	
Type of Operation: Underground: Shafts, Drifts	County Mohave	State Arizona	Type of Deposit Vein	

Ownership or Controlling Interest:

W.H. Hall (1946), operators E.P. Smerdfeger, Scarth Petroleum, Amarillo, Texas

Access: From Kingman, AZ, proceed north on U.S. 93 for 42 miles. Turn left on unimproved road for 2 miles. Turn right on light duty road for 4 miles. Mine is shown on topographic quadrangle.

Structural Control or Geological Association:

"The vein is 4 feet wide, cutting a field of granite, alaskite, and schist. The ore comes in lenses from 15 to 20 feet in length."¹

"The vein occurs in the granite, dips 70° and on the 50 foot level is 1 to 3 feet wide. The high grade ore occurs in lenses in the vein. Low grade ore adjoins that which can be shipped... the ore, besides gold, contains some lead carbonate and a reported trace of vanadium. No galena had been found up to May 1935. The ore is different in character from any other found in the range."²

"The vein system occurs along a fault system which strikes N45°E/75°NW."⁵

Age of Mineralization:

Production History	Geochemical Analyses		
(1936) ² 10 carloads of ore	(1936) ² Ore assay average:		
(1940) ¹ 800 tons	1 carload \$100 gold/ton		
(1941) ¹ 3200-3700 tons	9 carloads \$50 gold/ton		
(1942) ¹ 3041 tons	\$40 gold/ton ore cut off		
	(1940) ¹ 0.62 oz/ton gold		
	Radioactive Assay ¹ (10-25-63)		
	% U ₃ O ₅	% U ₃ O ₅	
	Dump 0.01	0.03	
	Dump --	0.02	
	Sample I.D. ⁵	Au (oz/ton)	Ag
	13-II-82-7	0.225	0.099
	13-II-82-8	0.095	0.102
	13-II-82-9	0.007	0.009

References

- 1) ADMR file, Phoenix, AZ.
- 2) Gardner (1936) p. 57-58.
- 3) Mallach (1977) p. 28.
- 4) Exploration Research Associates Incorporated (1981) Geologic Map of Santa Fe Pacific Railroad Company Mineral Holdings in Northwestern Arizona (scale 1:250,000).
- 5) Exploration Research Associates Incorporated, 1982, Memorandum to William H. Crutchfield, Jr., 1 March 1982.

POPE MINE

Mohave County

CJH WR 5/15/80: Drove to Pope Mine turnoff which is on Highway 93, halfway between mile posts 24 and 25. Went four miles west to the Pope property. It is still inactive. No one there and no equipment.

RRB WR 11/11/83: William S. Dobyk, Geologist, Nicor Mineral Ventures, 2659-G Pan American Freeway NE, Albuquerque, New Mexico 87107 (505) 344-7803, was in to investigate the Pope and Two B's in Mohave County.

RH

POPE MINE

MOHAVE COUNTY

Learned that Dennis Poyner and Claude Grant are contemplating work on the Pope Mine and the claims east of Pope Mine, which is the the Minnesota district, 52 miles NW of Kingman. Could not contact Poyner.

FTJ WR 11/8/68

Metler Bros. drilling around and at Pope Mine for Cerro Corp. More details not available. FTJ WR 11/7/69

Stopped at the Yellow Jacket mine 8 miles west of Wikieup, Sec. 11, 15N-14W, where Dusty Denton and Dennis Poyner have been working since the first of the year sinking a 10° incline \pm 125 feet and drifting some 175-200 ft. on an altered porphyry zone between two vertical faults trending n40-50W. Confidentially, an assay result from the old Eisenhaur Lab in LA showed over 56 oz. Au, 25 oz. Pt and 11 oz. of Pl. The faults are diverging in the direction (SE) they are now driving and are 10-12 feet apart. Poyner said they had McPhan run an IP which showed a better anomaly about 300 ft. ahead of the present face.

GW WR 4/5/72

E.P. Swerdfeger of 844-15th Street, Boulder City, Colorado, 80302, is opening the Pope Mine in Mohave County, and wanted to be sure that he has complied with the numerous regulations. GWI WR 12/29/75

Pat Patterson of Chloride permitted us to copy drill logs, I.P. and geochem anomaly maps from an exploration program on his South Pope Mining claims in the El Dorado Mining District. VBD WR 6/15/76

George Fass and I drove to the Pope Mine in the northerly end of the Black Range in Mohave County. Pope Mining, Incorporated has two men working at the property preparing to heap leach dumps containing gold. Their address is Box 970, LVSR, Kingman, Arizona, 86401. Their headquarters office is Box 14049, Petroleum Building, Amarillo, Texas. E.P. Smerdfeger, who has owned the property, consisting of eight unpatented lode claims, for many years is in charge of the work.

VDB WR 3/9/77

WR GW - 8-15-77 - Mohave County Mineral Survey office called to report they had contacted the Pope mine but found no activity other than the leaching pad has been constructed.

WR GW 10-13-77 - Called Gerry in Kingman. He had gone to the Pope mine and visited with the mill superintendent who reported the U.S.B.M. experimental leaching truck hadn't been there nor would be until they requested it.

10-18-77 bh

WR/GW 1/13/78 - Mr. Fass reported the Pope mine gold leaching operation was about to fold. 2/22/78 a.p.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Pope, Mohave County Date September 21, 1978
District Minnesota Engineer Glenn Miller - Cliff Hicks
Subject: Property visit and examination

The Pope mine is located in Sec. 8, T27N, R21W, was operated for Au and Ag and consists of 6 unpatented claims.

An interview with Bruce Maxwell, Mining Engineer, employed by Scarth Petroleum, and living on the property disclosed certain technical data and information supplementary to Vernon Dale's entry of 3-9-77 and Gerry Irwin's entry of 10-13-77. (see attached pages).

GM:CH:gg

cc: Tucson office

PROCESSING METHOD - HEAP LEACH, AGITATION LEACH

Heap leach

Pad characteristics

Size *105' x 95' x 12' 5800 st.*
Construction
Lining *PVC - 20mm*
Location *on property - 10' to center - 3° - to North to pregnant solution sump*

1. Ore
2. gravel 6"?
3. PVC - 20mm ± 2"
4. 2'-lines

Pre Heap processing and transportation

Transportation to pad *yes -*
Crushing or grinding *none -*
Screening *none*
Washing *none*

Disposition of water *- haul from Kingman
had well on property utilizing mine H₂O - wasted it*

Pre cyanidation recovery of values - jigs, tables,
floatation, amalgamation *none*

Characteristics of bedded materials

Size of material *micron to feet*
Quantity of material per patch or level *not segregated*
Slime content and control *high -*
Height of bed *1/2'*
Method of stirring bed *none*

Leaching

Leach time *one week*

GOLD - SILVER CYANIDE OPERATION PRACTICE

CENSUS DATA

Property name County, Mining District, Legal Description *Pope Mine, Mohave*

Claim names if different

Operator's name address and phone number *Scarth Petroleum, Amarillo, TX*

Owner's name address and phone number if different *Elmer Swentfeger, Boulder, CO*

Property history pertinent to present operation

Key technical personal - Consultants *Phil Peters, San Clemente, CA*

Pope Mining Inc.

*Bruce Maxwell - lives on property
P.O. Box 970, Las Vegas Star Rte, Kingman, AZ 86401*

MATERIAL OF DEPOSIT TO BE PROCESSED. DUMPS - TAILDINGS-NEW ORE

Dumps 5800 tons

Metal to be recovered - silver, gold, other *Free Au, no telluride*

*767-3348
(Boulder Inn Hwy 93)*

Grade (optional) - silver, gold, other *? sampling not reliable*

Ratio Ag: Au *6Au-1Ag*

Gold minerals - Native gold, electrum, telluride, chlorides

Size and distribution of gold particles

Silver minerals - native silver, chloride, bromide, sulfide,
sulfosalt

Size and distribution of silver mineral particles

Iron minerals *Pyrite, limonite*

Sulfide minerals

Base metal minerals - copper, lead, zine *some Cu*

Cyanicides *none*

Other minerals *?*

Mineralogy - size and distribution of minerals *Au coating on quartz X-stal faces*

Permeability of ore to leach solution *? not tested*

PROCESSING METHOD - HEAP LEACH, AGITATION LEACH

Heap leach

Pad characteristics

Size *105' x 95' x 12' 5800 st.* 1. Ore
Construction 2. gravel 6" ?
Lining *PVC - 20mm* 3. PVC - 20mm
Location *on property - 10' to center - 3' to North to pregnant solution sump* 4. 2'-fines

Pre Heap processing and transportation

Transportation to pad *yes -*
Crushing or grinding *none -*
Screening *none*
Washing *none*

Disposition of water *- haul from Kingman
has well on property utilizing same H₂O - wasted it*
Pre cyanidation recovery of values - jigs, tables,

floatation, amalgamation *none*

Characteristics of bedded materials

Size of material *micron to feet*
Quantity of material per patch or level *not segregated*
Slime content and control *high -*
Height of bed *12'*
Method of stirring bed *none*

Leaching

Leach time *one week*

SURGE TANK AND CHEMICAL MAKE UP DETAILS *20'x10'x10' - can add makeup cyanide
23 gal. barren solution tank.*

Aeration of leach solution *Bagdad Whips - 1 1/2' - 1/4" plastic tube - 1/8" contact
19 sprinklers* Orifice

Leach rate - gallons per minute

Cyanide concentration, consumption and monitoring *.03 ppm - high consumption*

How determined

PH Control, value, chemical consumption and monitoring *mine water pH 7.0-7.5*

How determined *lab test*

Gold and Silver content of pregnant solution *± 90 ppm - 600 st. run*

How determined *Atomic absorption & assays.*

Other materials in solution *Ag, Cu, Fe*

Water Source ~~was~~ *was mine H₂O - now hauled.*

Mineral content *Fe, Cu*

T Turbidity - ?

Consumption - ?

AGITATION LEACH *none pregnant solution tank - 20'x10'*

Pre leach processing and transportation

Transportation to mill

Crushing and grinding

Classification

Handling of slimes

Pre cyanidation recovery of values - jigs, tables

floatation, amalgamation

Cyanidation

Introduction of cyanide

Cyanide concentration, consumption and monitoring

Aeration

PH control, method, monitoring and reagent consumption

Agitator pulp density

Gold and silver content of pregnant solution

Contact time

Carbon - in - pulp cyanidation method

Details

Recovery of gold and silver. Precipitation with zinc, collection *loaded on charcoal*
with charcoal, other (LIX, RESIN-IX) *recovered by electrowinning*
had stainless steel

Characteristics of pregnant solution

Gold and silver content

Cyanide content

PH

Precipitation with zinc

Clearification

Deaeration

Filtering

Precipitation

Zinc consumption

Precipitation equipment

Collection on charcoal ✓

Precipitation of silver from high Ag: Au solutions *N/A*

Type of charcoal

Column or bed design *4 columns 8' x 3' diam. cost 20,000*

*3V-70A not enough
getting Cu plating
raised current and temp.
to 180°F.*

Charcol consumption ?

Gold and silver content of loaded charcol ?

Characteristics and handling of spent solution *returned to tank*

Gold and silver content of spent solution

Cyanide content

PH

Use or disposal of spent solution

Regeneration of solution

Disposal and neutratisation

Recovery and refining of ~~bre~~^{ure}llion

Custom ✓

In house

Recovery of gold and silver from charcol

Chemical stripping and electrolysis

Burning of charcol - details

Environmental considerations

During operation

Monitor wells

Accidental spills *same*

Heavy rains *same*

At shutdown

Neutralization of toxic chemicals

Stabilization of tailings

Pumps are 250in well.

Hoogh Front-end articulated loader.

A-C D-6 ~~exc~~ crawler.

2-ton Truck -

good lab setup - Atomic absorption machine.

Option on Gladiator

Looked at CD (?) COD (?) mine near Mineral Park.

Mucked out shaft - 148 Tons out

Started Dec. 15, 1976.

A. OWNER: E.P. Swerdfeger
Box 970 L.V.S.R.
Kingman, Arizona 86401

Home-base address:

Petroleum Building

Box 14049

Amarillo, Texas

B. POPE Mine:

Minnesota Dist.

Sec. 8 T27N R21W

Metals = Gold, Silver

6 unpat. Claims (6,800 TONS on dump. Calculated)

ref. U.S.G.S P.P. 374 p. 37 I.C. 6901 p. 57

2-25-77 { 6 Claims at this time. There will be more
staked out in the near future. 3-9-77 went to the
property; there is activities going on at this time.
There will be a Cyanide leaching project on dump
ores; then they will go underground.

3-11-77

POPE MINE

Sec. 8, T27N, R21W
Minnesota Mining District
Mohave County, Arizona

Patented Claims- Book 317 - Chicago #2694
Patented Claims- Book 317 - Waldorf-Astoria #2696

Misc. from various notes 1963 - 1973

?original? Pope Mine location by R. Harley & James H. Pope and E.B. McDonald.

Claims ~ Expansion #1, #2, #3, ? later owned by McDonald. Somekind of litigation; McDonald won lawsuit in about July 1, 1945.

Later years Harley sold Triton (?Pope shaft area?) to jim Smith for water, for \$2,500.00.

Two sisters (?name?) retaining a Triton claim in 1961, Proof of Labor Book, Raymond Wierth for Harley.

Lawsuit between McDonald and Harley re. claims extension #1, #2, #3.

Assays Pope mine Oct. 25, 1963	<u>U_g O₈</u>	<u>V₂ O₅</u>
Dump	0.01	0.03
Dump	---	0.02

Underground not checked, Nil-radioactivity in some of the open cuts, etc.

1940, Pope Mine idle underground; about 800 tons of gold ore shipped from the dump.

1941, Minnesota Mng. District produced ±3200-3700 tons of ore.

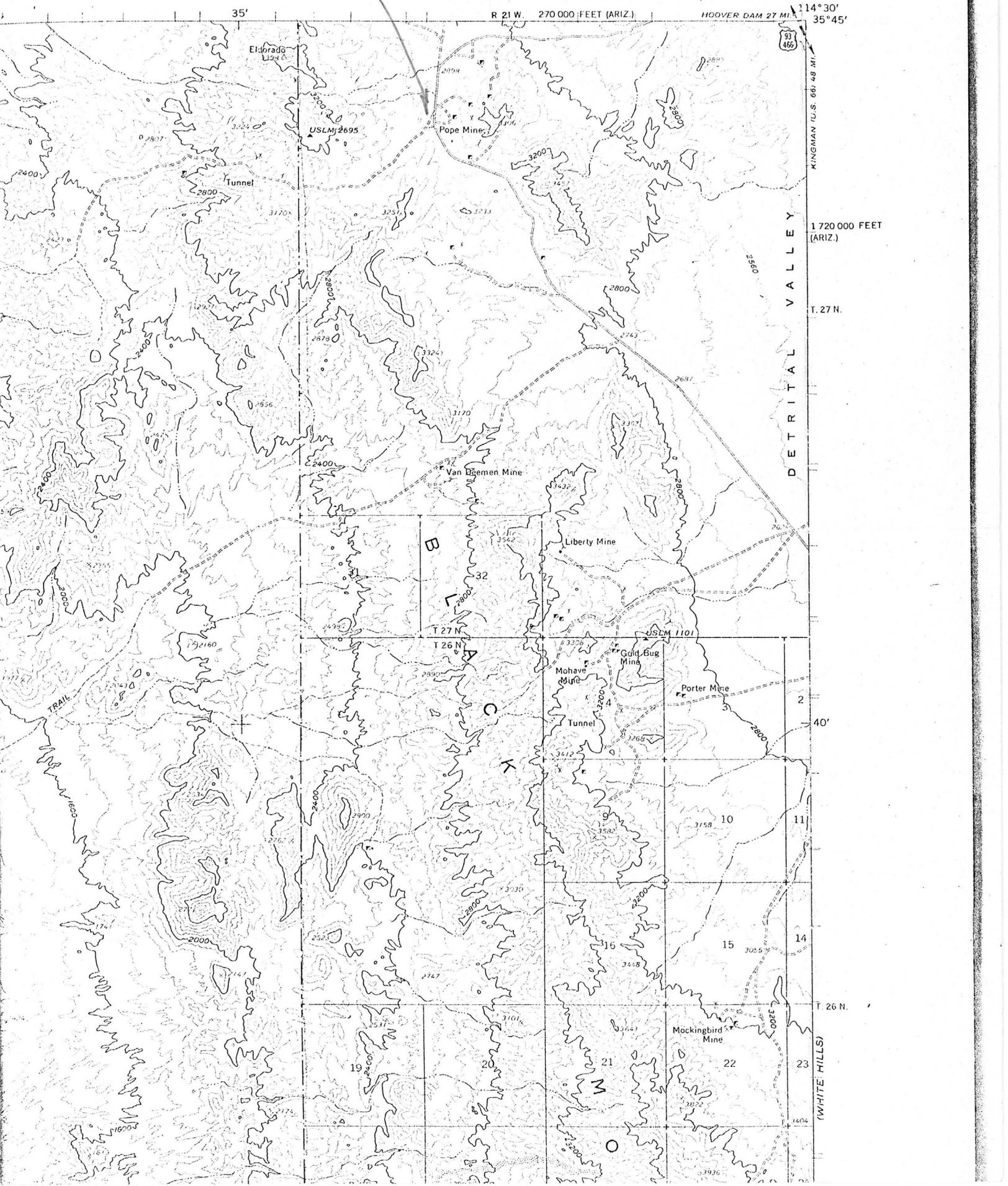
1942, Published information 1639 tons from Horn Silver; ± 3700 tons of ore.

1942, Published information 1639 tons from Horn Silver; ±3041 tons from Pope, Van Dieman and Yellow Aster.

Pope Mine

MT. PERKINS QUADRANGLE
ARIZONA-NEVADA
15 MINUTE SERIES (TOPOGRAPHIC)

SENATOR MOUNTAIN



35'

R 21 W 270 000 FEET (ARIZ.)

HOOVER DAM 27 MI

14° 30'
35° 45'

DETRITAL VALLEY

1 720 000 FEET
(ARIZ.)

T. 27 N.

B

T 27 N

T 26 N

A

C

X

19

20

21

32

33

34

35

36

37

38

39

USLM 1101

2

3

4

5

6

7

8

2

3

4

5

6

7

8

40'

10

11

12

13

14

15

T 26 N.

(WHITE HILLS)

KINGMAN (U.S. 66) 49 MI.

93
466

TRAIL

Eldorado
L2246

USLM 2695

Pope Mine

Tunnel

Van Dorem Mine

Liberty Mine

Mohave Mine

Gold Bug Mine

Porter Mine

Mockingbird Mine

MINING PROPERTIES IN CHLORIDE
WHITE HILLS & POPE MINE AREA

Prepared for Mohave County Mine Study

August 1977

By: J. Hubert Smith - Chloride, Arizona

Think that I will start from the NW(West) which be the Flinn property, last known in control and ownership of Katherine Lorig, now in the County Rest Home, and the main claim is the ANDACONDA, as old Jack Flinn made the mane and as said to you of five claims and first to attention from J.O.A. Carper, of Boston Building, Denver Colorado. A self educated engineer but really knew his business and stuff. All this from the digger side and had a boy, Marshall Carper, who had all the school that this dad could give him but he never could get to shooting distance of his dad, who could smell ore farther than the boy could shoot. We talked of this claim and it is a crying shame that such as it lay idle while they piddled with wee ones; five claims and can remember the one mentioned and a Blue Rock, and Yellow Aster (this one as told Flinn, shipped quite a bit of tonnage, went as high as 22 ounces gold. There are two more claims and the Blue Moon, the silver that overlays Andaconda and you to not lose hold of the throw of some underneath the Blue Moon to the beginning of Andaconda and on which lay this out-throw of 8'x15'x400', as recall in length. A well faulted area and peak of a site just a step away SW that has been carried from distance, apparently to the Easterly area and toward the Pope, which is a mile or so to that direction, and at the beginning of the out-throw to SE onto Andaconda and two veins cause a small canyon and on and near had one party on this deal for a short time until called away from a hurt to his wife and he hurt and did not return. He had his daughter hoisting on a small shaft in the edge of this little canyon and the drag of the vein material, it would appear as we found, ran \$75 gold and so a shaft at this point ought be at this point and should open into a deep one for much marcasite all through formations and here to mention that Mr. Carper found a real small vein spur running to SE that ran 122 ounces gold and he did not report as it would not fit the report and he, a very conservative and honest type, told it as found, saw and analyzed. He was the okeh M. E.

for many years for the people through the mining areas and a lot in Arizona We would like to have kept him with us forever if we could. This property ought to be a biggy for the opening even it be some 50 miles plus from Kingman; at the SE of Andaconda there is a spring...or was last I to know.

The Pope is back to NE from this group and is a small one but gave some good ore and just before J.O.A. Carper went to the hospital and deceased, he shipped about \$40,000.00 of ore for them but as said when the boy moved in he found a mud fault to NW but couldn't scheme out and so closed down and now moved since and he is back to Denver last to know...Faulting there could make the Pope grow as is apparently did for the Blue Moon from which silver to 20,000 ounces by Stanley Bagg, father of John S. Bagg, whom graduated Minnesota and Idaho, from takeout at that time way back when and later he's all over this end and adjoining.

In this general area much showing and Cyclopic and O.K. too has produced; Cyclopic is a blanket vein and quite a tonnage milled in a small mill. O.K. gave a small amount of good shipping ore but handled cursorily and by fellows looking for something to be ready to put in the wheel barrow; for a time same got some dollars from the ready made dresses fellows in Los Angeles but they moved out but still selling dresses over, near, all Southwest.

In this general area following strikes of the properties mentioned is much showing and as back to 93 we come to White Hills area which credited with 18M silver 1900 to 1910 my grandad, John Hughes, there doing such time and ran blacksmith to 1910 and thence moved in with folks at Kingman in illness and passed 10/10/10.

As we move into sheet #2 it should be said, in generality, that in the area we are starting which be near to the dam and such and to say that at points showing sandy banks and receptive areas for deposits and lodgement, in the past were worked by placer mined folks and among one of such a Sandy Harris had some grub-stakes for his claims and when short worked the deal and recall one sold for \$12,000.00 and his partner in such was Henry Lovin, whom

known well for relation with Gold Road Mine and with Jose Jerez, his old Spanish partner, whom sold their three located claims, Gold Road, Line Road and Billy Bryan, for \$50,000.00, half to each and Jerez ran through his and passed out at Gold Road Camp but Lovin was a businessman and politician for many years and during most of his time quite successful.

Maybe well to mention that much showing was up and along the Colorado and some high plans made to work the sands and high gravels at and about the Griggs Ferry Point but all this went under 300 feet of water with the formation of the Lake Meade and values ran well enough to have caused working and a heavy plan for such was in plan when the dam came on and it's showing of the water depth at near all such points made the plan impractical and it was left to memory only but some better values in showing ran to near \$4.00 per yard.

From our start we will work down Cerbat Range to and through White Hills already in mention which gave the big run on silver and, of course, carried many others values and indications and most from close surface tunnel; the one claim in mind of some depth was the Occidental getting to depth of 500 feet as recall and showed some copper in quantity and came to attention by a pair named McNeely and Chidister in the sinking a 500' ran into a geode that was larger than the shaft and had to be dug around to be taken but was so removed and the same broken into and disclosed an green, staining but was into a chrystalline and they reported that under candlelight reflected as would emeralds and I don't recall as to what done with but would have been a real individual showing of its' kind for the most geodes we have are balls of lime-like material with the center filling and much as this type is found in the San Francisco district at Gold Road and Oatman and would presume that could be in various places in the state.

A lot of the area of that to the North and on the old Top Duncan Range and where a quite small boom came to life and some of the locals and some Chicago folks put a gold saving machine into the work and did take out some gold and the same screens to catch the small stuff and the man in charge

came around and picked up the gatherings which they placed in fruit jars and finally toward the end he had bought a yacht to put on the river and the partners or what called found no reward and some prosecution was attempted and don't now recall that the old boy went to a reward or not but put a damper on the operation and stopped the real excitement of the first part of the plan and action; this was a southerly of the area of Gold Basin and they had a local name for the place worked by the machine but can't at this time bring to mind but the same appeared a break down of some soft veins that laid in small hillocks and replaced in part in the calcite. The machine used had a roller around a screen top that allowed some separation and should have given considerable benefit had the thing been honestly and seriously mined and it stands to my acceptance that much of this territory would be susceptible of a like reworking that could give up some considerable value as the name given to the area indicated. Now coming to mind, KING TUT...The old saying of too many cooks can be well passed along as too many amateurs spoiling what might lead to some benefit of many places. There are many high graves in the canyons and walls and I can foresee that with the present day improved dredge, permission given for the use in those places, could likely drop the gravels in favorable places and fill in some of the spots with after passing through the separation; it is in showing at Nome and Fairbanks, where small islands lay out into waters that the dredges move in and take the gravel from one portion and replace back into the island base after extraction. Alaska gold has thus worked over several years to a full handling of \$30,000,000.00, showing net profit of five million. In and about the Griggs Ferry portion of the river is much such high gravels that at log assay ran, as to recall, \$1.67 per yard.

As we move down to the Chloride Townsite and various showing and much production that sustained the people of the county during the days 1870 and on the big attraction of the folks to move in locate and produce and in the early days many of the Cornish folks(Cousin Jacks, so called) too the surface enrichment near to several hundred others in and about the Ithaca Peak, of which

in avail, Duval are reputed to be holding some four hundred claims, among them several groups Woodchopper being on to recall, Keystone another and many and the surface silver ran to as much as 25,000 ounces and during such period accumulated the tonnage and had transported down the Colorado on the Little Pohamus and Mellen Steamers and out into the lower California waters and on ships to Whales and thus to have ores worked through the smelter available there and return in six months visiting families during the same handling and most of this to Sansea, Whales, England and at visits to some old claims yet to find evidence of the products bought and in return to use, showing that where naught else to be devise had and time used to make such be and this followed with smelting eventually here and the San Francisco (never a smelter other than some devised through use of adobe ovens as had here at south end of Silver Hill where some rich surface was made into bars by Thiess Brothers, who worked the claims; also the biggys at White Hills had to and did devise melting their silver for they hauled in silver bricks in freight wagons and if their credit or repute of 18 million is correct, is correct it took some smelting of devise of otherwise to accomplish; in any event they made a lot of money in so doing and many of us fellows would have been hungry had not the old prospector, chlorider, done his stuff and the railroad bought the need of samplers and then came to us and at one time we had two and this near to 1916; other facility built in centers and the railroad done the hauling and didn't miss a trick for they charged on base of value of the ores and thus that gave a real base and incentive for the samplers and their segregation of the various ores both in places to do and as to value, in other words, you kept the grades separate for you would then have to pay on the high value contained if allowed to mix, so the sampler gave themselves some extra gravy and saved the digger from being quite as deeply gouged as he who had not the facility to separate and evaluate the stuff as much as possible. Samplers could invite a lot of digging now and I was in mind that we might get Washinton to put in government samplers and could make sub-

stantial take from gold and silver and still provide market for diggers to get out the gold silver for the prices now being available to folks and they could stand a good sampling charge and refining and still have values to so allow and leave a bit.

Lots of claims in and about Chloride, the biggy being, Tennessee-Schyl-kill and Old Rainbow up on top to NE and Samoa nearby which has produced and then would give more with any reasonable handling and it had some four ounce ores, gold, and this occurring in white iron and when any gold the iron would take on a yellow tinge and an New Jersey group had and started a long tunnel from down below to NW and made several hundred feet toward such and thence the backers let go and been in a standstill since but that tunnel was a good plan and think would get under much easier; many claims along this strike and just out of town the Arizona Magma gave some good return but the man in charge, Cliff Carpenter, had all his brothers on the job and they ate up the profit and their Carolina backers found out such and quit putting up and been closed and had some labor leins, even as the Tennessee had and has yet and which claims in judgment record and El Pasco Gas took over with bid of \$100.00 subject to judgment claims and so done for use of water in the shaft, which 1600' deep and rated to have plenty of ore in sight at bottom and some told me more than when was last working and many men about worked on when.

Smelter at Needles and railroad picked up and took to same on Arizona and Utah railroad as also hauled *Zinc and \$5.00 gold from Golconda and this 1918 and reputed Tennessee carried 2 ounces gold and most near to 50% lead and some silver and possibly carried some rare and semi-rare; quite active for several years just before WWI and couple of thousand workers in and about this center at such time and many smallies produced to aid the Tennessee and Golconda; USSR & M Co. on Tennessee at this time and had the smelter at Needles at it's supply for such need; also this same company worked what they called the Banner at Stockton Hill and used an infallible claim just below to allow tunneling and recall, at such a pencil mark under the tracks caught

the foreman's eye and dug into and opened a chute of good ore as big as good sized room and it also heavy lead etc. and gave a number of carloads that ended at Needles smelter; all of this area here and mineral heavily mineralized for several miles to and beyond the Golconda and to a lesser showing on and into Old Cerbat Camp and its' showing and production over a lot of years and may here note that for several years had a little store at Center of Cerbat Camp and enough folks there contained to keep going and in the happening during this period the Old Cerbat claimed in control of one Tobias Ayres had some production along with fair return and down to depth, as recall, 200' and Ayres had a wife, boy and girl and the nearly grown named Mabel and nice looking girl and resting very strongly in eyes and mind of one Ike Hunt, one of the miners working for said Tobias and he knew of a showing at bottom that did not yet pass along to his boss but finally did so and did it developed that thought it would bring favor to gain the girl's hand in marriage, but did not work out that way but they did move into this higher grade and it produced for the Ayres family some \$200,000.00 and those days that was a lot of money and they had come here from San Francisco and with this handfull the old gentleman decided to take his money and family back to San Francisco and did so, all to a heavy dissertation of Mr. Hunt and the girl, with the allowable style the dollars could afford, found an acceptable young man of family and married and likewise the brother found a young lady to his desire and all moved into the biggy circle; the father, Tobias, was a gentile but turned Yiddish to marry the wife (and she was a very acceptable person and a friend of all to whom known) and had lived hard and frugal to raise the boy and girl to their necessary standing and they fitted into the Jewish section of that city and was upgraded to quite some urge of the fact that they had some extra dollars and at last heard the young folks done themselves well and became an accepted group of the social and substantial world of that then growing city which had been heavily aided by the favors of the Old Comstock Mine at Virginia City, Nevada, that put considerable wealth into its growth and standing and soon

the city responded to the money that came from much mining including the working of the high gravel of Northern California, which came to near 300 million before the law passed to stop the sluicing of the high gravels because the farmers of the area thought the boulders and sands would ruin the country and it was a reversal in thought which proved that the breakdown of the sluicing and its deposition on the lands proved to be a fertilizer of the country instead and we are to now know that raising part of the great state of California, and we do hear of the folks taking to the hills and so forth on week ends now and hand pan out some dollars that have helped some folks very much and with the values of the gold brought to light that of the hoarders of the sands and nuggets have now a big chance to trade in for some real high prices and some of them are even getting some prices for their fruits now and getting more as a new day comes and so we can stand a few extra dollars from mother earth and maybe as we get a mill or sampler we can find some extra dollars for as told you we have \$200.00 ore on Apex Extension and no place to take and not enough yet at hand to ship and so either one be a help to many people who have little places started that can give some ore to some small mill that can handle or to a good sampler that can same, receive in a brokerage relation that can help the small owners and can in the aggregate, gather from the many, even hundreds in this general area of old and some new claims.

Thence to say as to Chloride and showing about, big and little, such aid make for a great deal and would, almost positive, open new showings to average mill and much high grade have evidence to make for more value as dig deeper in underneath and could start a real nice little boom and has chance for making bigger as much showing on many claims and to mention that Duval has some 30 or more claims on the foothills of Chloride side and to SE on strike of country are likely 500 locations and know they claim some 400 to our direction to a group of five claims called Austin, and against which our two Copper Apex(patented) and extension, unpatented, and on which showing of ore mentioned and this two claims has vein showing 400 feet wide

in Copper Apex and both walls on this leached veins gave old price of \$5.00 in gold and thence where claims abut in saddle of mountain assessment work for extension which into IXL canyon and abut with Bismark Canyon in which Austin claims and all this close area shows many spurs running into this main leached vein which likely at water level show replacement as usually happens when lay for some time; extention has tunnel on vein and a tunnel started to intersect said tunnel and a 300 foot shaft, apparently on spur and bottom of same shows cooper in bottom 30% in a record made by my father, Anson H. Smith, editor of Miner for 55 years and a rockhound all his life; this shaft a whim deal which watered out at 300' and had to be left but all ore that came, as dump to show was shipped and at that time was buried several miles to end of a road at Stockton Hill road made by on W.H. Hard, and helped a lot of early shippers from burying as early freighter picked up ores and took to sampler at Kingman about 12 miles and to shipment or to sampler which as said, part time had two samplers and this invited much so-called chloriding; from this whim shaft since here and with my people in this Copper Apex Corperation, two sons and two friends and in looking over one day and Don P. Smith, one son, attracted to whim shaft by a cable hoist drum and me with him and saw where had loaded ored, appeared at head frame and had been cobbled and much small chips like of the ore, which can way was habit with those old fellows who never shipped any rock that not indicate value in and gathered this handful of pieces as lay at said headframe and shipped my sample to the assayer at Iron King and ran 3 1/2 ounce gold, 19 ounces silver, 8% copper and 165 lead and one of the gang wanted to know of me where is the dump? There was no dump except the small amount to level and hold head frame and all the rest shipped and even at those day's peices this was real shipping ore; as said my dad's record showed assay from bottom of this whim shaft and that gave copper 30% as have said; the spilled pieces that I found and had assayed had lain at this place for about 65 years and the assay told us that little, if any, value was leached by rain, snow and all such . The Covington

people, Ed Covington, engineer, his father and partner had 20 claims adjoining our Copper Apex at the right and adjoining NW and so this would fill a bill for protection ground and perhaps more to take this ground as family desires sale and such could fit into Copper Apex claims for space if not otherwise and they indicate to me, Mrs. Covington, mother of engineer, they are ready for deal; thus the erosion of the IXL Canyon, allows a push of the tunnel into Copper Apex at top of point of abutment and it lays most all in Bismark Canyon but they fit and more showing indicated that many opened claims and as some depth be attained replacement fill out the 400' of same and the presence of many spurs that surround the same and indicate jointure with said wide showing it should make for real depth and it further justifies in that it is in a cluster of claims that have produced as well as letting a lot of even the little spur vein surrounding be worked and shipped and my dad got a return of a smallie that paid his transportation of his printing shop to Kingman...The Covinton group carries the name Hopewell....

Elevation at abutment of Copper Apex patented with extension is a 5500' and erosion of IXL Canyon side make for decline to allow the tunnel part way up to be carried on into Copper Apex and should cut the vein of same 200' or more and would help much in getting under the showing and such be in the main vein as would be driven and also help to near to a footwall showing of a push of vein from some where below that assessment work done on and just over into extension and showing in a decline and into IXS side and first assay of this work run \$50.00 and next lower sample to \$110.00 and last one I mentioned is a third sample that from work done for two years and this ore showing by a break from below, as can be reasoned and helped in exposure by the erosion of the decline on IXL side and this tunnel could be helpful and to say Bismark Canyon side also in heavy decline and as carried on to follow vein would break daylight on that Bismark end but this work may be helpful also as a number of spurs indicate moving back to main vein and that at not too deep should show fill in wide vein now not side and small shipments

from made and several scattered assays over formation ran an ounce and in spurs had silver, lead, copper and gold enough to add to \$30.00 per ton that today prices would make \$200.00 or better and some lead portions to 50% but only 5¢, so and silver then 25¢ so had to have much content to have any value; on this can say that the assessor office cartographer has many maps and on big one that covers several hundred claims and while many names differ by relocation yet many are patented and be real guide and if not in hand you ought get the big one or as we have one small section that shows a heart piece which shows many producers and shippers: Alph, Mint, Jamieson, Night Hawk, Golconda, Summit and many and Golconda opened and down to 200' level on 5 ounces gold and then jumps to 50% zinc and \$5.00 in gold; Night Hawk shipped lots silver and from 200 to 2000 ounces and this in a soft gob mostly but gave up a lot of value and benefit to many fellow that made good use and on this one an old Italian near raised his family on chloriding the Night Hawk and is type of showing that indicate could have value with some deep work on the same; this map good as hows patent numbers on patented claims; Mint is odd one and a soft gouge lying against upthrust of against which enrichment gathered and had ore in from \$30.00 to 100 ounces gold and 400 ounces silver and on George Klemp, an old back and lone one but had p partner of John Withers of the Loven started store, Lovin & Withers, and this being opened by tunnels into gob and to the hard wall as made and enrichment being into same which coloration fools you as to what paydirt as blue all and enrichment is some manner selected knife like fishures which run to point and worker had to get acquainted with same as fissures made small areas and as well made a larger deposit and with the real high Klemp would walk the trail into Kingman with canvas bag part full and turn to sampler for real cash; thence walk back with enough groceries to carry through for he at all times worked alone; he nearly always put aside so he could take summer vacation and just stayed in a rented he had all times in the yard of Walter Casteel family and a rental to him and he had same for many years; all this worked by tunnel

into softly and as got to the cut off of the hard tight rock upthrust that was the length of and no behind said rock so they drop below and start a new tunnel and worked along and in same manner and last to know was five small tunnels and enrichment and nature plan all the same on all levels and would believe some get start as to same and go deeper all likely would carry same plan of deposit below and into the deeper; peculiar as to look at ceiling all looked the same and had enough bluing to make appear alike but you pick across and check and when the enrichment be it would show in a handful that you rub and see the same metals in and that would be key to what be the enriched lenze and none in such knife lenzes failed to give less than \$100.00 up and at time I was with Withers in handling and had an other, Blackie, with some partner whom he guided and let them dig and they took some good stuff and Blackie, an old Prescott fellow, took about 3/4 bag to Cottonwood and got \$1500 and had good Christmas and Blackie got real bourbon wet and took pneumonia and died at Prescott and the other three came back to the Mint claim and tried to work out the key to finding and taking the high grade down and save but they didn't have the technique and so moved away and I never saw them afterward, although I tried hard to show them the way to the situation but was occupied and could not give time to help them but they evidently were just pick and shovel men and had to almost put the shovel in their hands; it is quite interesting to take note of how some men have a knack of note and taking just by watching others do a job but the majority can live and work with the man who can and never get the knack of what and how he does; the Jemison and Cashier were worked and produced some return and the Alpha was worked by several different and groups and was one that I recall that had arsenic enough in the ore to respond with crystals and enough copper to give them a little green hue.

A fellow whose name has slipped was moved into this area and ended with some 40 odd claims that he opened and established enough to provide for a 100 ton mill and was into this by an Elderly fellow, a Phoenician, Charles

Guest or Gist, and he had been an iceman for the Glendale area and ended with considerable wealth and this Mormon fellow from Salt Lake and with some cronies, and wife, in some manner got into an agreement with Mr. Guest who was to provide him with a 100 ton concentration mill as soon as he could open enough of the claims to provide for it and he went into and did so fill the bill and his name has slipped and Guest did provide him with an allowance and for the helpers and with machinery to work with but as the matter came to a head, it was learned, that he had some income from his holdings that all extra from this apparent payoff would go to the IRS and he stalled and this person was waiting for him to live up to his agreement but he never did and he awaited until he no longer could and so he went back to Salt Lake City and that the last I heard of this and that occurred since I moved to Chloride from Phoenix June 1965 and Guest was up in years and I have not heard of him since, although, I did hear of his troubles when in Phoenix he had a wife who divorced him and cost him \$200,000.00 or more to be rid, but he still had more and so it was likely a benefit to his garnered years, even to pay.

During this time we sold an interest in Copper Apex and used the money to start a tunnel and the gang with me started at about the mid of the tunnel on the extension when I wanted to push an incline down on the corner where the values had shown on the corner of the extension and tried to get my fellows to put up enough to check that surge that I call it and it seemingly adding more value as we can deepen but so far no luck but a mill or sampler would likely let us do some digging on the corner that has so responded and maybe get thing dropping into the pot insted of the other fellow's pot.

I have a bite in New York and Manhattan, in the name of C.W. Russell, and is a patent 3567 for the two in one and the Manhattan gave an ounce gold from a bit showing and the New York, which is about the tiptop of the country about had been worked and shipped from a surface tunnel and has an 80' shaft and at about 40' down a little swell in vein built about 5 tons which ran \$125

per ton and then my dad owned and left to make a sale on said claim of both but a chlorider slipped one and took out and shipped with some ore from the Tigress, which is a claim down a mile or so and near to Cupel which and said Cupel ended with credit of 1 1/2 million.

It is quite believable that much had slipped away without record for when I was to know about some leasers on Gold Road, where I had been powder monkey for some time, they were leaving on Billy Bryan and taking some gold adherent to about a 1/4" of the wall face and that was really heavy gold but it didn't add to the ore value and so they saved and had a small amount in a canvas sack when they took time for attending Cinco De Mayo and they took the sack contents to a L.A. assayer and he paid them \$1500 but for some reason did not show up in their ore from the showing other wise and they, two old leasers, didn't holler but felt that if the mill would not give them whats coming they would try the Los Angeles market and they was quite enough to buy some new overalls and more.

In this sheet I will run over several of the claims showing on that small portion of the map that included, with last copies, points to several of the many claims in that general area between Cerbat and Stocton Hill and Mineral Park. Can say from the start that many gave up good ores back in the old days when the chlorider was the maintenance of most folks in business and this all, generally, through the samplers. I can say, again, that a mill or sampler that could be shown to the many owners in this end would make for a lot of digging and to say that near all claims that have produced give evidence that they could again produce in response to reasonable and intellegent handling and inspection of the places that gave ores and almost any of these veins and showing are indication invitation to folks to dig down deeper and give chance for them to show up deposit of shippable ores. In this part I do not know of any claims that are in a blanket layout, although know of a claim in Cerbat where a shaft went down 146' and the top of that one had spilled over and lay flat up hill from the shaft that had been sunk on the edge of the canyon

wash and some nice tonnage came from this flat spill when they found the hinge, it might be called That coupled with this flat vein and peculiar as the vein in the shaft was base and this extended uphill ran several ounces gold and although joined at near shaft portal otherwise appeared as separate veins. The vein in shaft gave near to \$150 value and the flat ran several ounces gold, up to five ounces as recall. Golconda was worked intermittently for some years, in the later handling, when opened into zinc and with \$5.00 gold to help went on for several years and had a siding at a mineral station about half way to this end of line in the valley had loading facility and cars went out to Amarillo, Texas and most ran 50% zinc with the gold of \$5.00. Know that one old boy that backed an engineer, Boyle, came out \$300,000. to the good from his cut on the deal. I worked in the 280 level a few days when the foreman allowed the deposit to be opened like a big room and rounded out 50' or more and more of that work was hand sorting some high grade chunks from fines and no timber. A big Swede timberman put one big timber, no hitch, but wedged and at on shift, after blast, the timber fell down and the Swede had help and pushed back and wedged. I took a good look at no support and decided not to bet it wouldn't cave. I left the deal, and such held, but about this same time at Portland, in river range following a flat, one shot a round and the gang took off to shift following and at return next morning the whole flat, showing of several hundred feet, all down flat and burried all tools etc. which never was taken out and I knew the business but that was too sloppy for me and so I slipped away. Fired engine at Needles, thinking to railroad, as most all our people, except my dad, had used but firing with oil was too easy and so went back to more labor in one form or other but always interested and if not married and tied in to dig and feed family would have likely been in the hills digging on one or more hot spots that I know of and do yet have interest at now. Quite a large showing in this. Cerbat gave up lot of ore Champion gave some and think Patterson in Chloride worked on same and made some money. Claims in Cerbat gave good return

and have potential showing. Rico near C.O.D. gave some ore to shipment that ran \$500.00 and started shipment of \$125. per ton at beginning. Oro Plata in this area and many claims in Mineral Park gave good ores and yet show potential for near all workings quite shallow. A number of claims in this gave \$50.00 to Million and Altata, about half way between here and Cerbat, credited by Schader with one million production and much surface at Mineral Park never shown in record and especially ores in England known to go but not in record. Some the same in San Francisco and even to other places and this time more interested in getting and getting return than making record.

So if you find one that you think I may have know of or can get and your need pass to me I will try to find for you and will help in any way that I can do.

ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

July 10, 1958

To the Owner or Operator of the Arizona Mining Property named below:

Pope Mine (Mohave County)

Gold

(Property)

(ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

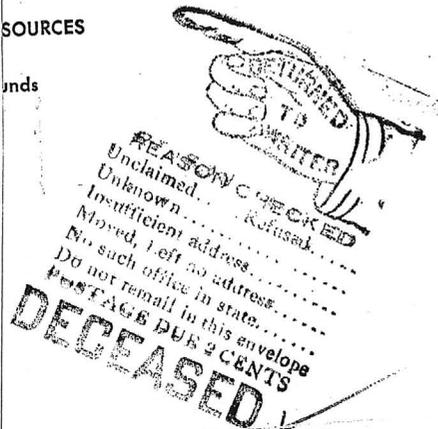
Frank P. Knight

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

SOURCES

nds



Mr. J.S. Pope

~~Chloride,~~

~~Arizona~~

7/58

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 10/13/77

Mine POPE MINE

Location Sec 8 - T27N R21W

Owner Pope Mining Co.

Address Box 970 Las Vegas Star Route
Kingman Arizona 86401

Operating Co. As above

Address Box 14049 Petroleum Bldg.
Amarillo Texas 79101

Pres. Robert W. Scarth

Genl. Mgr. E.P. Swerd feger

Mine Supt. Bruce Maxwell

Mill Supt.

Principal Metals Ag Au

Men Employed 2 above at present.

Production Rate Not stated

Mill, Type & Capacity Leach of Dumps
with Cyanide metal reduction

Power, Amt. & Type with activate charcoal

Steel wool & Electro precipitating

This information
is correct
9/29/78 (over)
Signed [Signature]
(Over)

Preser Operations Experimental

USBM System

New Work Planned will reopen shaft

if justified

Misc. Notes

Made trip with George Fass & assistant.

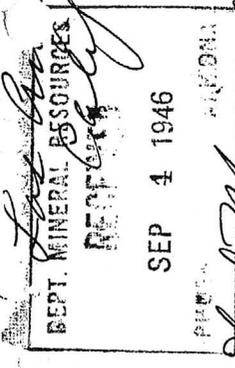
P 2 of 2

2.
and also the claims,
all in the same mining
district of Mohave County,
Arizona, all formerly
owned by W. H. Hall.

Sincerely

W. H. Hall.

143. West 91st St.
Lawrence, Mo.



Department of Mineral Resources
Phoenix, Ariz.

Dear Sirs:-
The Miss Bureau
Report form on the ~~Pope~~
Miss you sent to W. H.
Hall at Chlovis, Arizona,
was forwarded to me.

W. H. Hall, my father
is deceased and he
sold his share in the
Pope mine in 1940 to
Mr. Pope.

I am owner of the
Great West. and Mohave
Barred Groups of Claims,

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine POPE MINE (3 claims).

Date January 4, 1940.

District Minnesota, Mohave Co.

Engineer Elgin B. Holt.

Subject:

SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining District, Mohave County, Arizona, 52 miles northwesterly from Kingman and three or four miles west of the Boulder Dam Highway.

METALS:

✓ Gold.

OWNERS:

J. S. Pope and W. H. Hall, Chloride, Arizona.

OPERATING CO:

Arizona-California Exploration Co., A. S. Moffat, Pres.,
A. H. Warner, Engineer in charge of operations. Address:
Chloride, Arizona.

VEIN:

The vein is 4 feet wide, cutting a field of granite, Alaskite and schist. Ore comes in lenses from 15 to 20 feet in length.

DEV. WORK:

Mine developed by 72 deg. inclined shaft to depth of 400 feet, with levels each 50 feet in depth. Drifts on each level about 400 feet. No tonnage blocked out; but ore has been stoped out as fast as developed and shipped for treatment to the Producers mill. Average value of shipping, or milling, ore is 0.62 ounce gold per ton, per A. H. Warner.

EQUIPMENT:

Consists of: 15 H. P. Fair Banks Morse hoist, one 40 H. P. F. B. M. compressor; also one 180 cubic ft. portable compressor; ore bin; one pump with capacity of 30 gallons per minute; 7 dwelling houses; one office bldg.; one store room, etc.

I was informed while at property by the workmen, that the said Arizona-California Exploration Company is now getting ready to abandon operations at property, which will revert to original owners.

No. 152 De

Phoenix, Arizona, .

CHAS. A. DIEHL

July 13, 1944.

ARIZONA ASSAY OFFICE

Phone 3-4001

815 North First Street

P. O. Box 1148

This Certifies That samples submitted for assay by

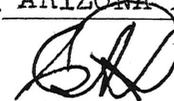
DEPARTMENT OF MINERAL RESOURCES.

contain as follows per ton of 2000 lbs. Avair.

HORNSILVER MARKS MINE	SILVER		VALUE (Oz.)	GOLD		VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	PERCENTAGE				REMARKS
	Ounces	Tenths	71¢	Ounces	Hundredths	\$35						
1	6.6		\$4.68	.07		\$2.45						
2	2.0		\$1.42	.21		\$7.35						
3	3.3		\$2.34	.19		\$6.65						
4	13.6		\$9.65	.79		\$27.65						

Charges \$ 5.00

Assayer ARIZONA ASSAY OFFICE



USGS Bull. 397, p. 134, 135

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 1/18/40

Mine Horn Silver

Location Minnesota dist. Mohave Co.

Owners: J. C. Dunham & Albert Hoff

Address Kingman, Ariz.

Operating Co. This property, loc-

Address ated near the Pope mine, is being worked by

Pres. owners and ore is shipped

Genl. Mgr. ed to Producers Mill

Mine Supt. for treatment. Seven

Mill Supt. fissure veins cross

Principal Metals property. Main vein

Men Employed now developed by

Production Rate 100' shaft and fan-

Mill, Type & Capacity net ranges from 2 ft. to 4 feet wide; and

Power, Amt. & Type ore averages

around \$20.00 per ton in Au & Ag.

Signed E. B. Hoff.

Dunham, J. C. & Company
Kingman, Arizona

Unclaimed

1-4-40

See HORN SILVER (Mohave Co.) - Re Field Engineers Report
Box 254, Chloride, Ariz.

See D file - Re request for bulletins

5-25-43

" OPA REPORTS - re gas application

3-2-45

SOURCES

unds



REASON CHECKED

Unclaimed..... Refused

Unknown.....

Insufficient address.....

Moved, left no address.....

No such office in state.....

Do not mail in this envelope

POSTAGE DUE 3 CENTS

DECEASED

Mr. J.S. Pope

~~Chloride,~~

~~Arizona~~

7/58

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine POPE MINE (3 claims).

Date January 4, 1940.

District Minnesota, Mohave Co.

Engineer Elgin B. Holt.

Subject:

SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining District, Mohave County, Arizona, 52 miles northwesterly from Kingman and three or four miles west of the Boulder Dam Highway.

METALS: *deceased*
Gold.

OWNERS: J. S. Pope and W. H. Hall, Chloride, Arizona.

OPERATING CO: Arizona-California Exploration Co., A. S. Moffat, Pres.,
A. H. Warner, Engineer in charge of operations. Address:
Chloride, Arizona.

VEIN: The vein is 4 feet wide, cutting a field of granite, Alaskite and schist. Ore comes in lenses from 15 to 20 feet in length.

DEV. WORK: Mine developed by 72 deg. inclined shaft to depth of 400 feet, with levels each 50 feet in depth. Drifts on each level about 400 feet. No tonnage blocked out; but ore has been stoped out as fast as developed and shipped for treatment to the Producers mill. Average value of shipping, or milling, ore is 0.62 ounce gold per ton, per A. H. Warner.

EQUIPMENT: Consists of: 15 H. P. Fair Banks Morse hoist, one 40 H. P. F. B. M. compressor; also one 180 cubic ft. portable compressor; ore bin; one pump with capacity of 30 gallons per minute; 7 dwelling houses; one office bldg.; one store room, etc.

I was informed while at property by the workmen, that the said Arizona-California Exploration Company is now getting ready to abandon operations at property, which will revert to original owners.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Horn Silver (2claims) Date January 4, 1940

District Minnesota Dist., Mohave Co., Ariz. Engineer Elgin B. Holt

Owners: J. C. Dunham & Company, Kingman, Arizona

Subject: SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining Dist., Mohave County, and adjoins the Pope Mine on the East.

METALS: Gold and Silver - silver predominating.

HISTORY: Mine was discovered about January, 1892, and has been worked from time to time since then. Property is being worked at the present time by owners who employ two men, beside themselves.

VEINS: Main vein is from 4 to 5 feet wide, with 15 inches to 3 ft. pay streak; strike of vein E & W; dip 80 deg. to North. Development work on this vein is as follows: One shaft sunk on top of hill on vein to depth of 100 ft. Tunnel on vein from foot of hill has a length of 400 feet, cutting shaft at depth of 70 feet.

SHIPPING ORE: Owners have shipped 200 tons of ore to Producers mill, average grade of which is \$4 gold and \$12 silver per ton. Owners are planning to produce 150 tons of ore monthly of above grade of ore or better.

ANOTHER VEIN: A parallel vein, 100 feet distant from main vein, was exposed by rains during September last. This vein was further exposed by owners by means of a shallow pit, which assays across 3 feet \$17 in gold and silver with same proportion of these metals as above noted. This is believed to be the Pope vein. Owners are preparing to open it up. Also, there are three or four other veins all running parallel to each other and forming a mineralized zone about 150 feet wide. Should these veins come together with depth, which is a possibility, the mine may develop into a large tonnage mine. As the property looks now, it would likely provide ore running around \$15 in gold and silver per ton sufficient to supply a 25-ton cyanide mill with continuous ore. Short lenses of ore now show in the tunnel referred to that assay around \$30 per ton in gold and silver.

This property is recommended as a good little mine and one out of which some money should be made if handled economically by skilled miners, who are willing to work themselves.

WATER: Water for milling operations would have to be pumped from the Colorado river, located 12 miles from property, or from wells located about the same distance in valley to East of property. A good road connects the mine with Highway 93, which runs within 3 miles from the mine.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Horn Silver (2claims) Date January 4, 1940

District Minnesota Dist., Mohave Co., Ariz. Engineer Elgin B. Holt

Owners: J. C. Dunham & Company, Kingman, Arizona

Subject: SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining Dist., Mohave County, and adjoins the Pope Mine on the East.

METALS: Gold and Silver - silver predominating.

HISTORY: Mine was discovered about January, 1892, and has been worked from time to time since then. Property is being worked at the present time by owners who employ two men, beside themselves.

VEINS: Main vein is from 4 to 5 feet wide, with 15 inches to 3 ft. pay streak; strike of vein E & W; dip 80 deg. to North. Development work on this vein is as follows: One shaft sunk on top of hill on vein to depth of 100 ft. Tunnel on vein from foot of hill has a length of 400 feet, cutting shaft at depth of 70 feet.

SHIPPING ORE: Owners have shipped 200 tons of ore to Producers mill, average grade of which is \$4 gold and \$12 silver per ton. Owners are planning to produce 150 tons of ore monthly of above grade of ore or better.

ANOTHER VEIN: A parallel vein, 100 feet distant from main vein, was exposed by rains during September last. This vein was further exposed by owners by means of a shallow pit, which assays across 3 feet \$17 in gold and silver with same proportion of these metals as above noted. This is believed to be the Pope vein. Owners are preparing to open it up. Also, there are three or four other veins all running parallel to each other and forming a mineralized zone about 150 feet wide. Should these veins come together with depth, which is a possibility, the mine may develop into a large tonnage mine. As the property looks now, it would likely provide ore running around \$15 in gold and silver per ton sufficient to supply a 25-ton cyanide mill with continuous ore. Short lenses of ore now show in the tunnel referred to that assay around \$30 per ton in gold and silver.

This property is recommended as a good little mine and one out of which some money should be made if handled economically by skilled miners, who are willing to work themselves.

WATER: Water for milling operations would have to be pumped from the Colorado river, located 12 miles from property, or from wells located about the same distance in valley to East of property. A good road connects the mine with Highway 93, which runs within 3 miles from the mine.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Horn Silver (2claims) Date January 4, 1940
District Minnesota Dist., Mohave Co., Ariz. Engineer Elgin B. Holt
Owners: J. C. Dunham & Company, Kingman, Arizona
Subject: SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining Dist., Mohave County, and adjoins the Pope Mine on the East.

METALS: Gold and Silver - silver predominating.

HISTORY: Mine was discovered about January, 1892, and has been worked from time to time since then. Property is being worked at the present time by owners who employ two men, beside themselves.

VEINS: Main vein is from 4 to 5 feet wide, with 15 inches to 3 ft. pay streak; strike of vein E & W; dip 80 deg. to North. Development work on this vein is as follows: One shaft sunk on top of hill on vein to depth of 100 ft. Tunnel on vein from foot of hill has a length of 400 feet, cutting shaft at depth of 70 feet.

SHIPPING ORE: Owners have shipped 200 tons of ore to Producers mill, average grade of which is \$4 gold and \$12 silver per ton. Owners are planning to produce 150 tons of ore monthly of above grade of ore or better.

ANOTHER VEIN: A parallel vein, 100 feet distant from main vein, was exposed by rains during September last. This vein was further exposed by owners by means of a shallow pit, which assays across 3 feet \$17 in gold and silver with same proportion of these metals as above noted. This is believed to be the Pope vein. Owners are preparing to open it up. Also, there are three or four other veins all running parallel to each other and forming a mineralized zone about 150 feet wide. Should these veins come together with depth, which is a possibility, the mine may develop into a large tonnage mine. As the property looks now, it would likely provide ore running around \$15 in gold and silver per ton sufficient to supply a 25-ton cyanide mill with continuous ore. Short lenses of ore now show in the tunnel referred to that assay around \$30 per ton in gold and silver.

This property is recommended as a good little mine and one out of which some money should be made if handled economically by skilled miners, who are willing to work themselves.

WATER: Water for milling operations would have to be pumped from the Colorado river, located 12 miles from property, or from wells located about the same distance in valley to East of property. A good road connects the mine with Highway 93, which runs within 3 miles from the mine.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Horn Silver (2claims) Date January 4, 1940
District Minnesota Dist., Mohave Co., Ariz. Engineer Elgin B. Holt
Owners: J. C. Dunham & Company, Kingman, Arizona
Subject: SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining Dist., Mohave County, and adjoins the Pope Mine on the East.

METALS: Gold and Silver - silver predominating.

HISTORY: Mine was discovered about January, 1892, and has been worked from time to time since then. Property is being worked at the present time by owners who employ two men, beside themselves.

VEINS: Main vein is from 4 to 5 feet wide, with 15 inches to 3 ft. pay streak; strike of vein E & W; dip 80 deg. to North. Development work on this vein is as follows: One shaft sunk on top of hill on vein to depth of 100 ft. Tunnel on vein from foot of hill has a length of 400 feet, cutting shaft at depth of 70 feet.

SHIPPING ORE: Owners have shipped 200 tons of ore to Producers mill, average grade of which is \$4 gold and \$12 silver per ton. Owners are planning to produce 150 tons of ore monthly of above grade of ore or better.

ANOTHER VEIN: A parallel vein, 100 feet distant from main vein, was exposed by rains during September last. This vein was further exposed by owners by means of a shallow pit, which assays across 3 feet \$17 in gold and silver with same proportion of these metals as above noted. This is believed to be the Pope vein. Owners are preparing to open it up. Also, there are three or four other veins all running parallel to each other and forming a mineralized zone about 150 feet wide. Should these veins come together with depth, which is a possibility, the mine may develop into a large tonnage mine. As the property looks now, it would likely provide ore running around \$15 in gold and silver per ton sufficient to supply a 25-ton cyanide mill with continuous ore. Short lenses of ore now show in the tunnel referred to that assay around \$30 per ton in gold and silver.

This property is recommended as a good little mine and one out of which some money should be made if handled economically by skilled miners, who are willing to work themselves.

WATER: Water for milling operations would have to be pumped from the Colorado river, located 12 miles from property, or from wells located about the same distance in valley to East of property. A good road connects the mine with Highway 93, which runs within 3 miles from the mine.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Horn Silver (2claims) Date January 4, 1940

District Minnesota Dist., Mohave Co., Ariz. Engineer Elgin B. Holt

Owners: J. C. Dunham & Company, Kingman, Arizona

Subject: SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining Dist., Mohave County, and adjoins the Pope Mine on the East.

METALS: Gold and Silver - silver predominating.

HISTORY: Mine was discovered about January, 1892, and has been worked from time to time since then. Property is being worked at the present time by owners who employ two men, beside themselves.

VEINS: Main vein is from 4 to 5 feet wide, with 15 inches to 3 ft. pay streak; strike of vein E & W; dip 80 deg. to North. Development work on this vein is as follows: One shaft sunk on top of hill on vein to depth of 100 ft. Tunnel on vein from foot of hill has a length of 400 feet, cutting shaft at depth of 70 feet.

SHIPPING ORE: Owners have shipped 200 tons of ore to Producers mill, average grade of which is \$4 gold and \$12 silver per ton. Owners are planning to produce 150 tons of ore monthly of above grade of ore or better.

ANOTHER VEIN: A parallel vein, 100 feet distant from main vein, was exposed by rains during September last. This vein was further exposed by owners by means of a shallow pit, which assays across 3 feet \$17 in gold and silver with same proportion of these metals as above noted. This is believed to be the Pope vein. Owners are preparing to open it up. Also, there are three or four other veins all running parallel to each other and forming a mineralized zone about 150 feet wide. Should these veins come together with depth, which is a possibility, the mine may develop into a large tonnage mine. As the property looks now, it would likely provide ore running around \$15 in gold and silver per ton sufficient to supply a 25-ton cyanide mill with continuous ore. Short lenses of ore now show in the tunnel referred to that assay around \$30 per ton in gold and silver.

This property is recommended as a good little mine and one out of which some money should be made if handled economically by skilled miners, who are willing to work themselves.

WATER: Water for milling operations would have to be pumped from the Colorado river, located 12 miles from property, or from wells located about the same distance in valley to East of property. A good road connects the mine with Highway 93, which runs within 3 miles from the mine.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine HORN SILVER (2 claims). Date January 4, 1940.
District Minnesota Dist., Mohave Co., Ariz. Engineer Elgin B. Holt.
Subject: Owners: J. C. Dunham & Company, Kingman, Ariz.

SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining Dist., Mohave County, and adjoins the Pope Mine on the East.

METALS: Gold and silver - silver predominating.

HISTORY: Mine was discovered about January, 1892, and has been worked from time to time since then. Property is being worked at the present time by owners who employ two men, beside themselves.

VEINS: Main vein is from 4 to 5 feet wide, with 15 inches to 3 ft. pay streak; strike of vein E & W; dip 80 deg. to North. Development work on this vein is as follows: One shaft sunk on top of hill on vein to depth of 100 feet. Tunnel on vein from foot of hill has a length of 400 feet, cutting shaft at depth of 70 feet.

SHIPPING ORE: Owners have shipped 200 tons of ore to Producers mill, average grade of which is \$4.00 gold and \$12.00 silver per ton. Owners are planning to produce 150 tons of ore monthly of above grade of ore or better.

ANOTHER VEIN: A parallel vein, 100 feet distant from main vein, was exposed by rains during September last. This vein was further exposed by owners by means of a shallow pit, which assays across 3 feet \$17.00 in gold and silver, with same proportion of these metals as above noted. This is believed to be the Pope vein. Owners are preparing to open it up. Also there are three or four other veins all running parallel to each other and forming a mineralized zone about 150 feet wide. Should these veins come together with depth, which is a possibility, the mine may develop into a large tonnage mine. As the property looks now, it would likely provide ore running around \$15.00 in gold and silver per ton sufficient to supply a 25-ton cyanide mill with continuous ore. Short lenses of ore show in the tunnel referred to that assay around \$30.00 per ton in gold and silver.

This property is recommended as a good little mine and one out of which some money should be made if handled economically by skilled miners, who are willing to work themselves.

WATER: Water for milling operations would have to be pumped from the Colorado River, located 12 miles from property, or from wells located about the same distance in valley to East of property. A good road connects the mine with Highway 93, which runs within 3 miles from ~~property~~ the mine.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine HORN SILVER (2 claims).

Date January 4, 1940.

District Minnesota Dist., Mohave Co., Ariz.

Engineer Elgin B. Holt.

Subject: Owners: J. C. Dunham & Company, Kingman, Ariz.
Albert Mort

SYNOPSIS REPORT

LOCATION: Property located in the Minnesota Mining Dist., Mohave County, and adjoins the Pope Mine on the East.

METALS: Gold and silver - silver predominating.

HISTORY: Mine was discovered about January, 1898, and has been worked from time to time since then. Property is being worked at the present time by owners who employ two men, beside themselves.

VEINS: Main vein is from 4 to 5 feet wide, with 15 inches to 3 ft. pay streak; strike of vein E & W; dip 80 deg. to North. Development work on this vein is as follows: One shaft sunk on top of hill on vein to depth of 100 feet. Tunnel on vein from foot of hill has a length of 400 feet, cutting shaft at depth of 70 feet.

SHIPPING ORE: Owners have shipped 200 tons of ore to Producers mill, average grade of which is \$4.00 gold and \$12.00 silver per ton. Owners are planning to produce 150 tons of ore monthly of above grade of ore or better.

ANOTHER VEIN: A parallel vein, 100 feet distant from main vein, was exposed by rains during September last. This vein was further exposed by owners by means of a shallow pit, which assays across 3 feet \$17.00 in gold and silver, with same proportion of these metals as above noted. This is believed to be the Pope vein. Owners are preparing to open it up. Also there are three or four other veins all running parallel to each other and forming a mineralized zone about 150 feet wide. Should these veins come together with depth, which is a possibility, the mine may develop into a large tonnage mine. As the property looks now, it would likely provide ore running around \$15.00 in gold and silver per ton sufficient to supply a 25-ton cyanide mill with continuous ore. Short lenses of ore show in the tunnel referred to that assay around \$30.00 per ton in gold and silver.

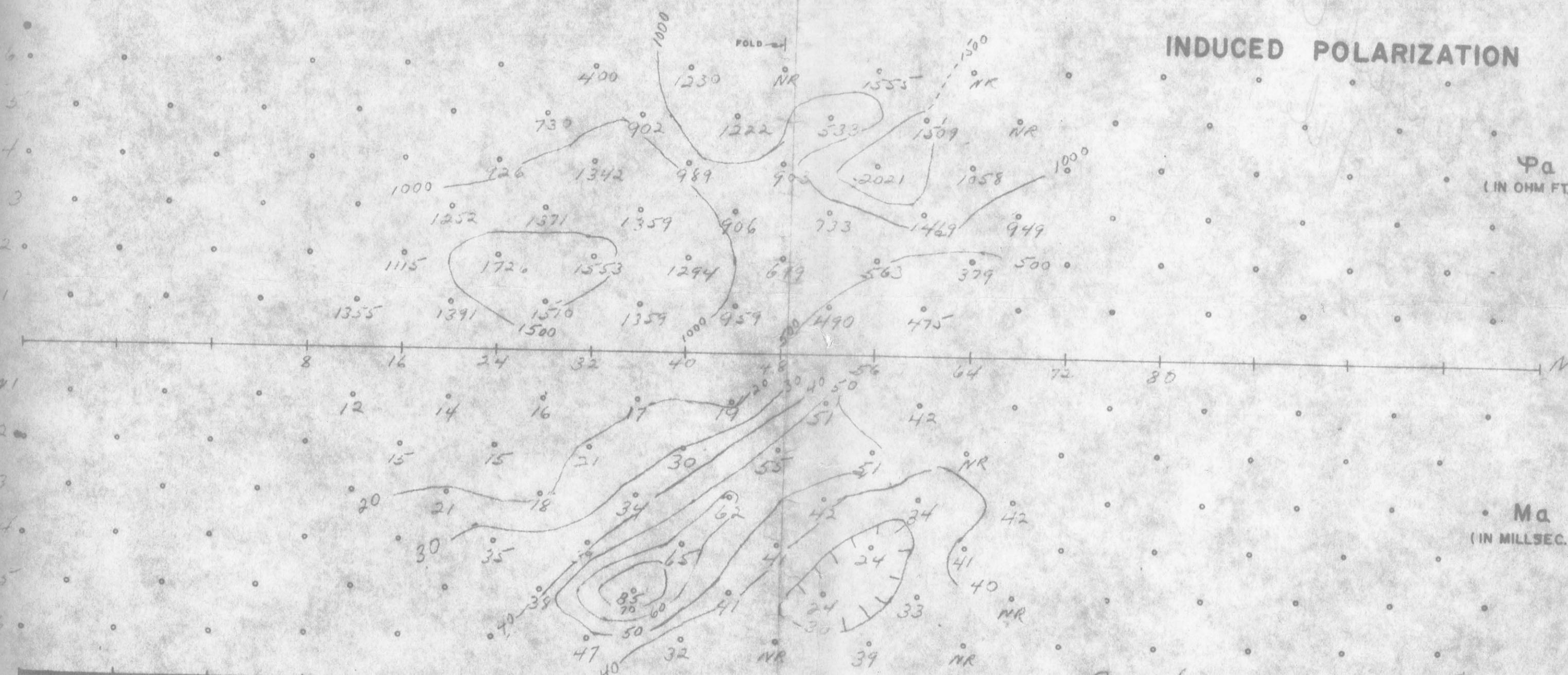
This property is recommended as a good little mine and one out of which some money should be made if handled economically by skilled miners, who are willing to work themselves.

WATER: Water for milling operations would have to be pumped from the Colorado River, located 12 miles from property, or from wells located about the same distance in valley to East of property. A good road connects the mine with Highway 93, which runs within 3 miles from property: the mine.

INDUCED POLARIZATION

φ_a
(IN OHM FT.)

M_a
(IN MILLSEC.)



STA 56 JANE AS, L-4-88

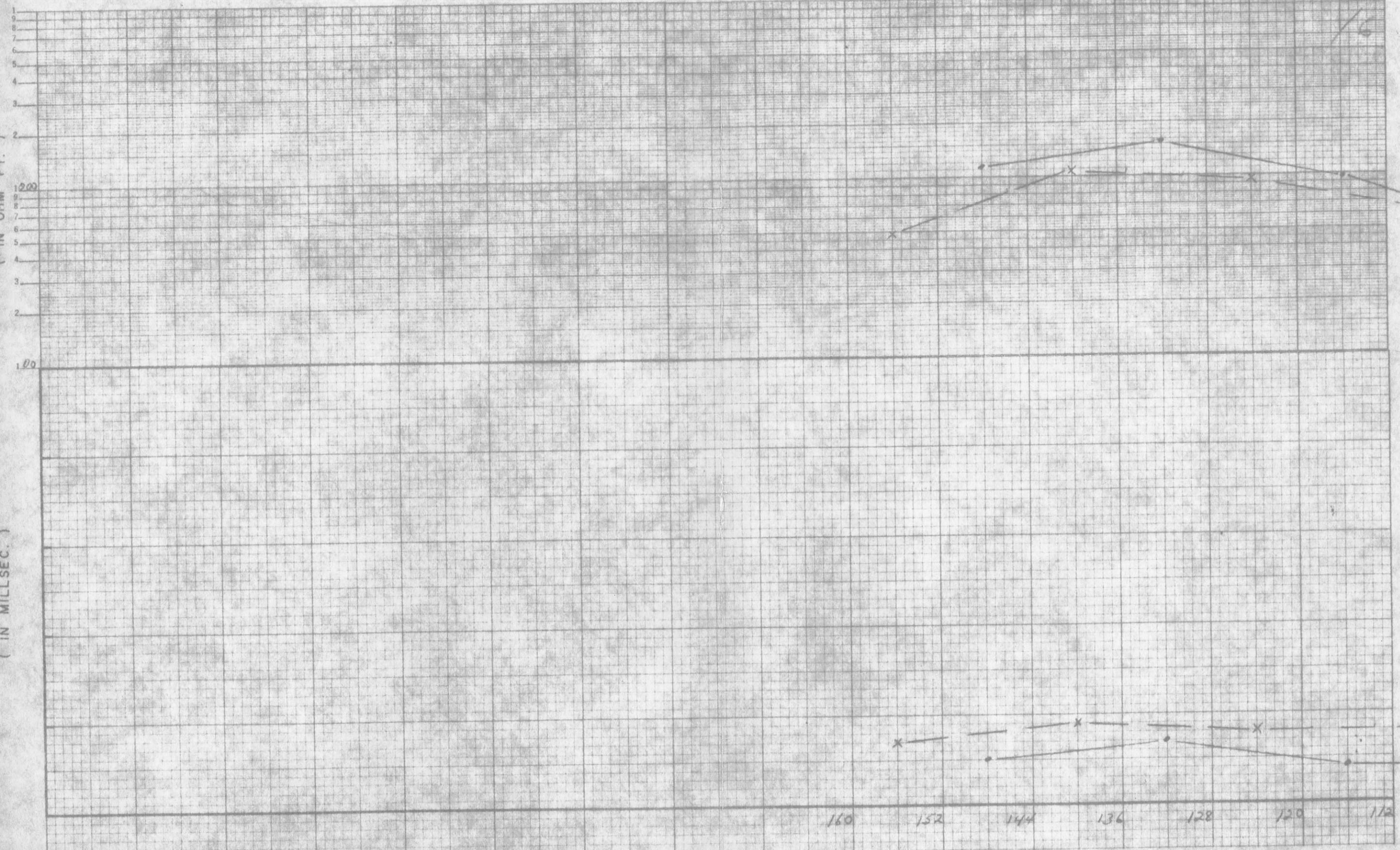
UTAH INTERNATIONAL INC.
LINE NO. 13 AREA: POPE MOUNTAIN
COUNTY: MOHAVE STATE: AZ
SCALE: 1-800 DATE: APR 78
OPERATOR: PETA "G": 800
BEARING: N56E LOCATION: T27N
ARRAY: DD R21W

16

40

(IN OHM FT.)

Ma
(IN MILLSEC.)



160 152 144 136 128 120 112

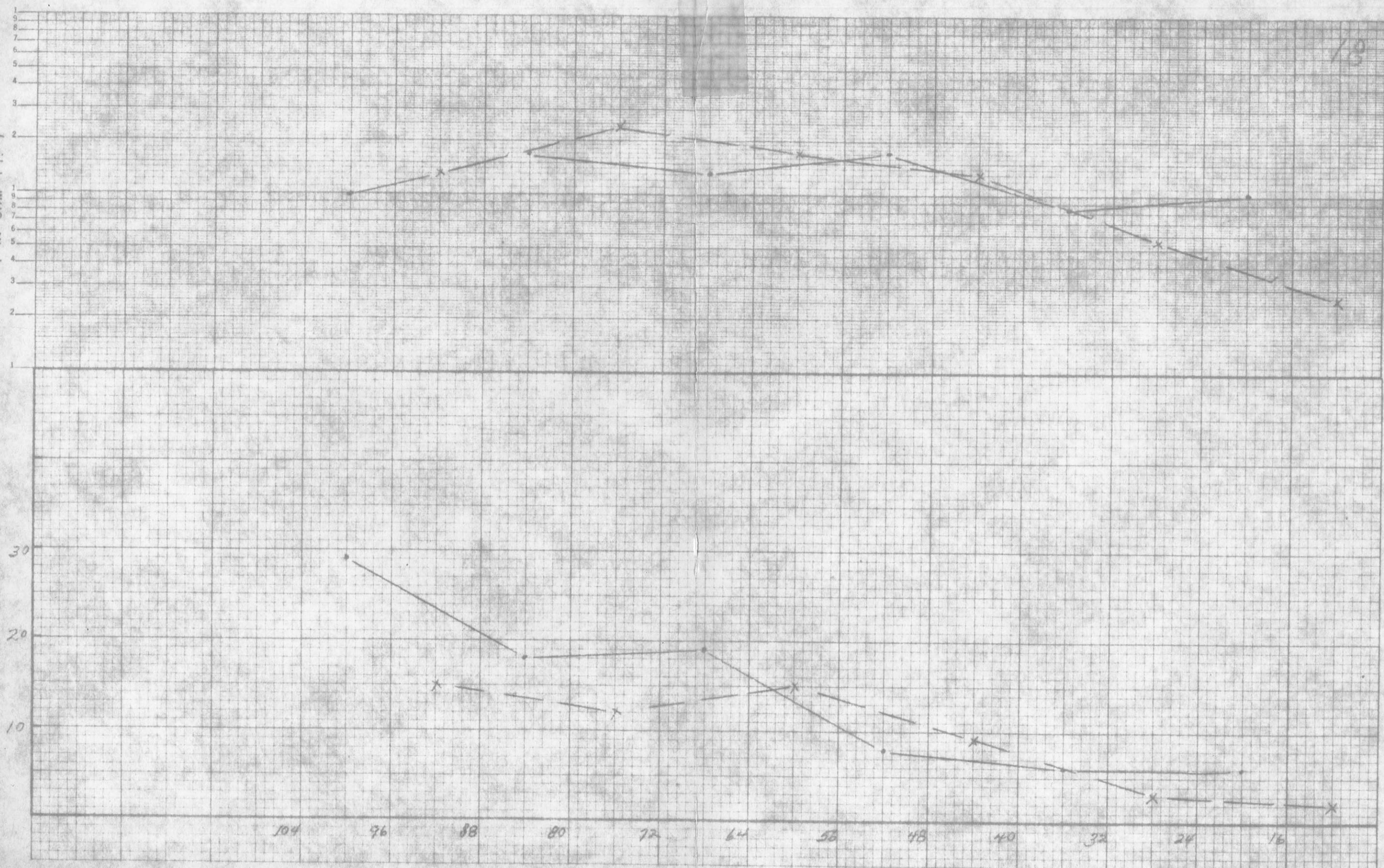
UTAH INTERNATIONAL INC.
Area POPE MINE So.

Induced Polarization Line No. 5
County MOHAVE State AZ
N1 X---X N3

Opr. REA Scale: 1" = 300' Location T27N R21W
"a" 800' Date 9 MAR 74 Bearing W

ρ_a
(IN OHM FT.)

M_a
(IN MILLSEC.)

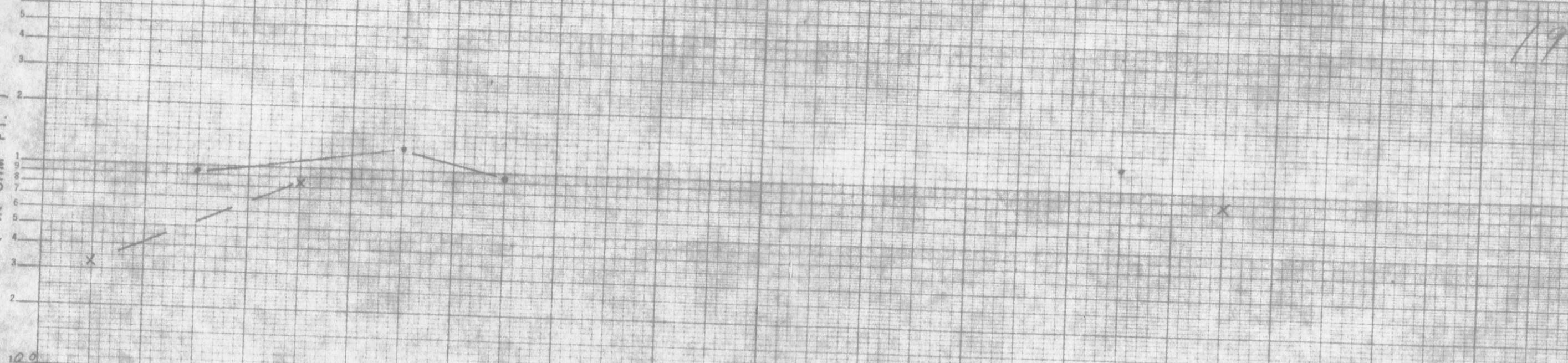


UTAH INTERNATIONAL INC.
 Area POPE MINE SQ.

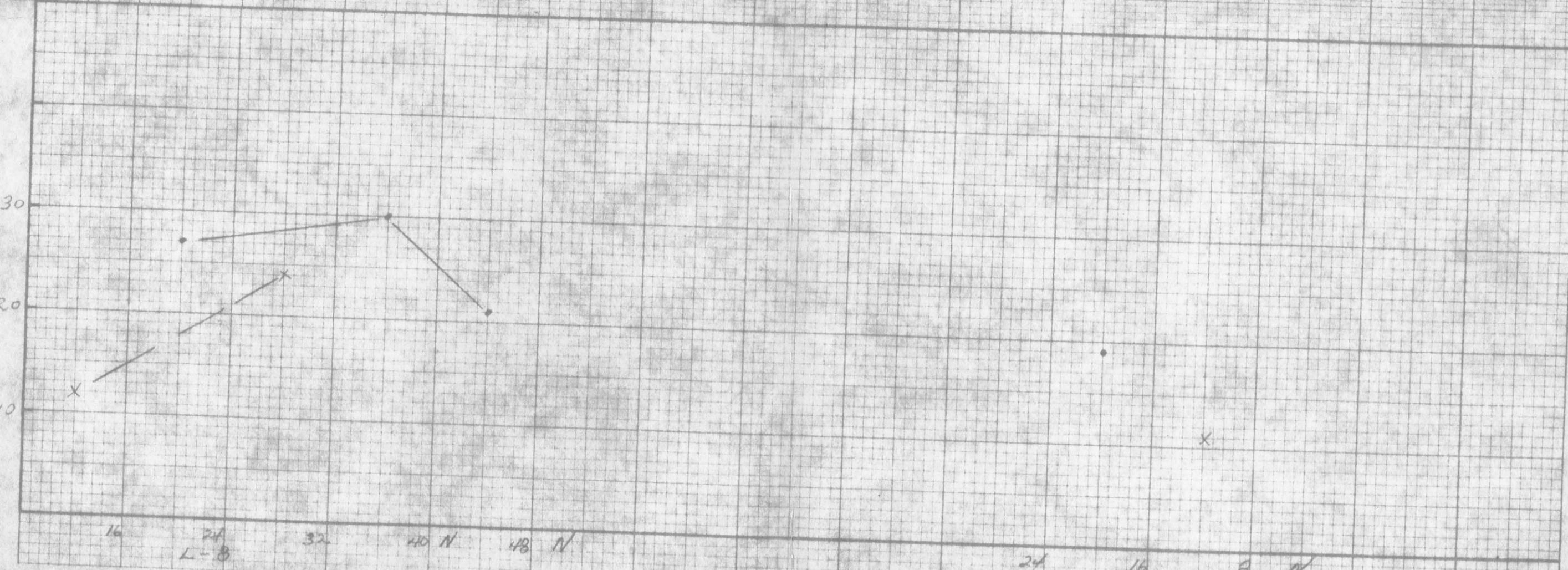
Induced Polarization Line No. 7
 County MOHAVE State AZ
 N1 X --- X N3

Opr. R.E.A Scale 1" = 800' Location T27N R21W
 "o" 800' Date 10 MAR 74 Bearing S 35° E

ρ_a
(IN OHM FT.)



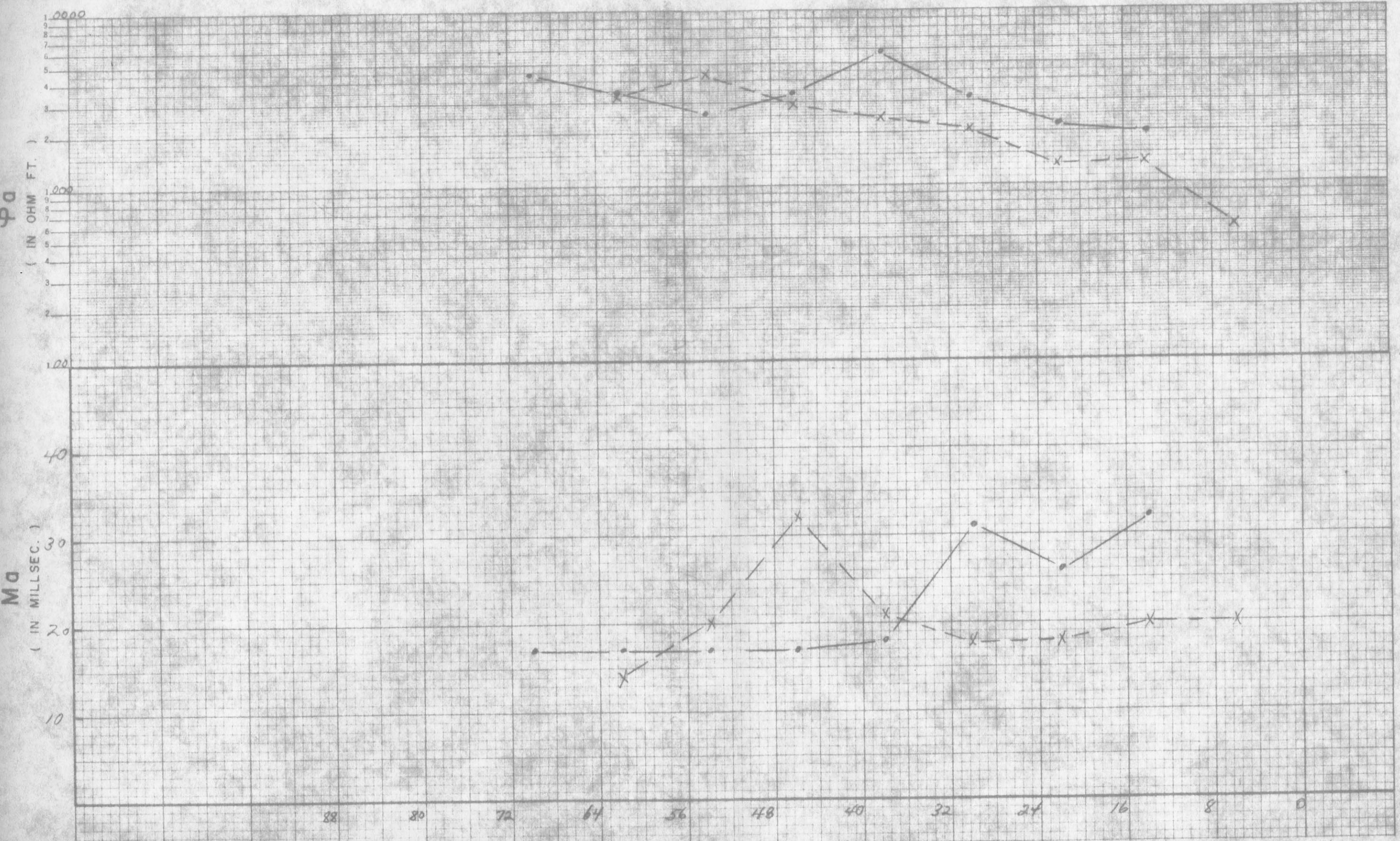
M_a
(IN MILLSEC.)



UTAH INTERNATIONAL INC.
Area POPE MINE So.

Induced Polarization Line No. 847
County MOHAVE State AZ
N1X---X N3----

Opr. R.E.A. Scale: 1" = 800' Location T27N R21W
"a" 800' Date 11 MAR 74 Bearing N

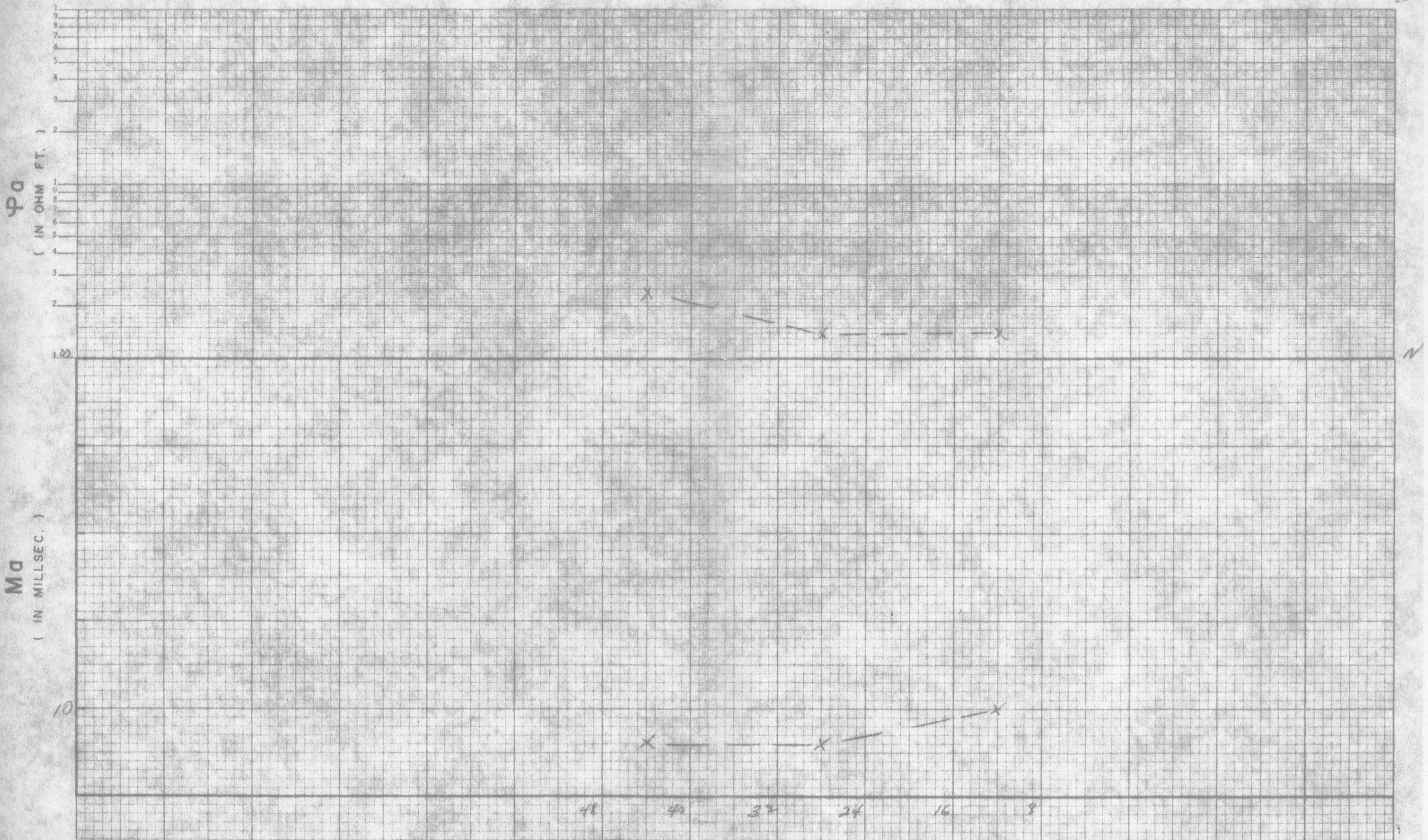


UTAH INTERNATIONAL INC.
 Area POPE MINE So.

Induced Polarization Line No. 10
 County MOHAVE State AZ

Opr. R.L.A. Scale: 1" = 800 Location T27N R21W
 "a" 800' Date APR 74 Bearing S

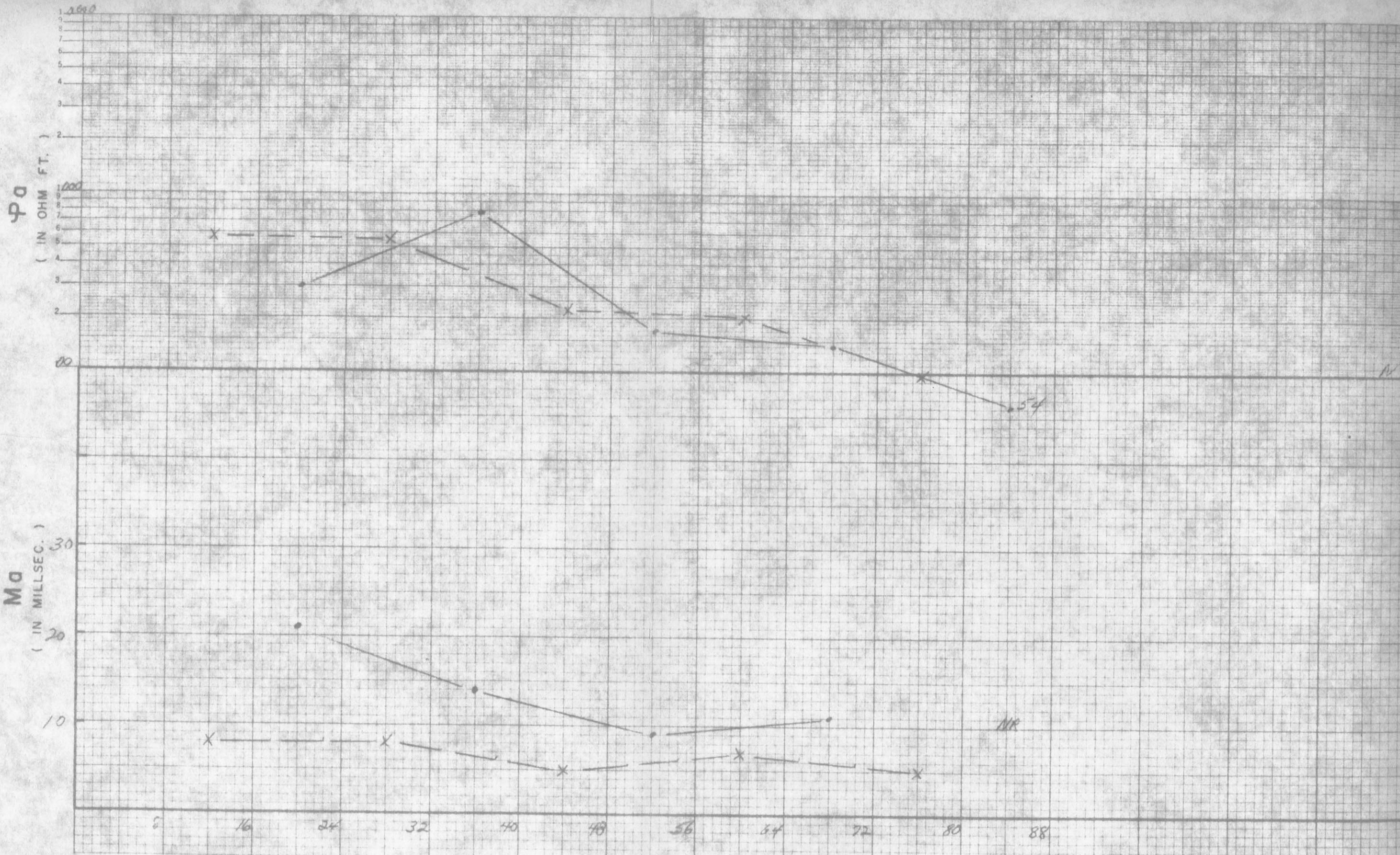
N1 X---X N3 •——• 00 Same AS L-2 00



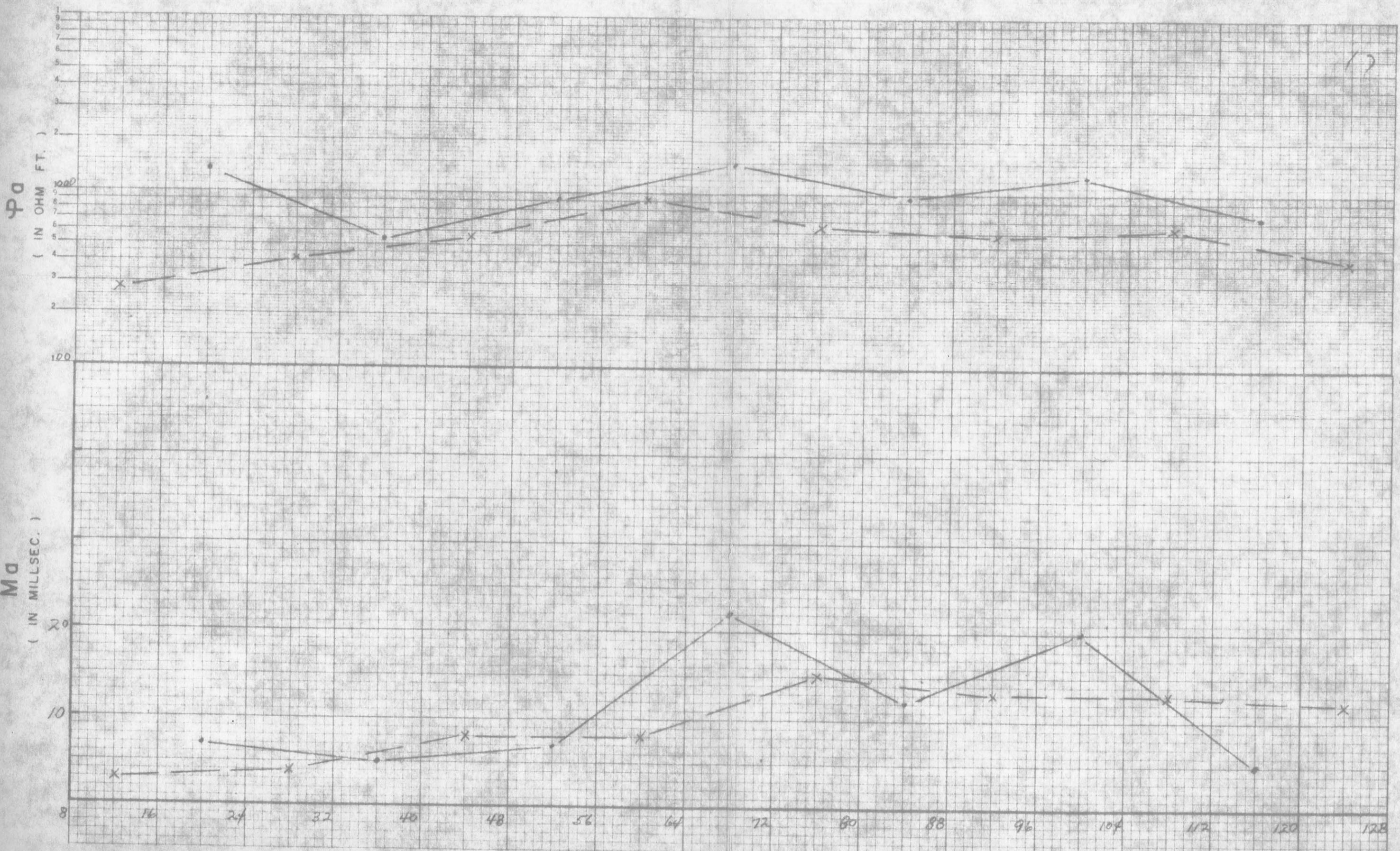
UTAH INTERNATIONAL INC.
 Area POPE MINE So
 UNABLE TO READ N-3

Induced Polarization Line No. 12
 County MOHAVE State AZ
 N I X - - - X

Opr. R.E.A Scale: 1" = 800 Location T27N R21W
 "a" 800 Date APR 74 Bearing S
 STA 16 AT SEC COR $\frac{23}{24}$ / $\frac{26}{25}$



UTAH INTERNATIONAL INC. Induced Polarization Line No. 11 Opr. R.E.A Scale: 1" = 800' Location T27N R21W
 Area POPE MINE So. County MOHAVE State AZ "a" 800' Date APR 6 74 Bearing N 70E
 NI X - - - X N3 00 Same AS L-4 136400



UTAH INTERNATIONAL INC.
 Area POPE MINE So.

Induced Polarization Line No. 6
 County MOHAVE State AZ

Opr. R.E.A. Scale: 1" = 800' Location T27N R21W
 " " 800 Date 9 MAR 74 N