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08/18/86

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: CWT MINE

ALTERNATE NAMES:

PIMA COUNTY MILS NUMBER: 220

LOCATION: TOWNSHIP 17 S RANGE 12 E SECTION 23 QUARTER NW  
LATITUDE: N 31DEG 56MIN 27SEC LONGITUDE: W 111DEG 05MIN 39SEC  
TOPO MAP NAME: TWIN BUTTES - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

ZINC  
COPPER  
LEAD  
SILVER

BIBLIOGRAPHY:

AZBB BULL. 189, P. 134, 1974  
ADMMR CWT MINE FILE

Samaniego  
3747 1 NW  
TWO OCE RANCH  
T17S  
3533

55

3534

3535



Twine Butte, 7.5

Sagehen Valley

DWT Mine

Sun Keyer Mission  
BM 3454

MISSION

Substation

BM X 3

Tuui  
212C R 12E

CWT MINE  
Continental Exploration  
P.O. Box 11216  
Tucson, Arizona (1966)

PIMA COUNTY

Metal Mining & Processing Nov. 1964 p. 7  
Metal Mining & Processing March 1965 p. 33  
Metal Mining & Processing April 1965 p. 41

E&MJ Vol 165 No. 11 Nov. 1964 p. 122  
E&MJ Vol 166 Apr. 1965 p. 120  
E&MJ Vol 167 No. 1 Jan. 1966 p. 82  
E&MJ Vol 167 No. 7 July 1966 p. 119  
E&MJ Vol 167 No. 8 Aug. 1966 p. 130  
E&MJ Dec. 1966 p. 126  
E&MJ Vol 168 Sept. 1967 p. 178

World Mining Feb. 1965 p. 120  
World Mining Sept. 1965 p. 120

Skillings Mining Review April 16, 1966 p. 10  
Skillings Mining Review May 14, 1966 p. 8  
Skillings Mining Review Nov. 19, 1966 p. 20  
Skillings Mining Review May 13, 1967 p. 10  
Skillings Mining Review Nov. 23, 1968 p. 10  
" " " May 10, 1975, p. 8

Mining Congress Journal Oct. 1967 p. 19

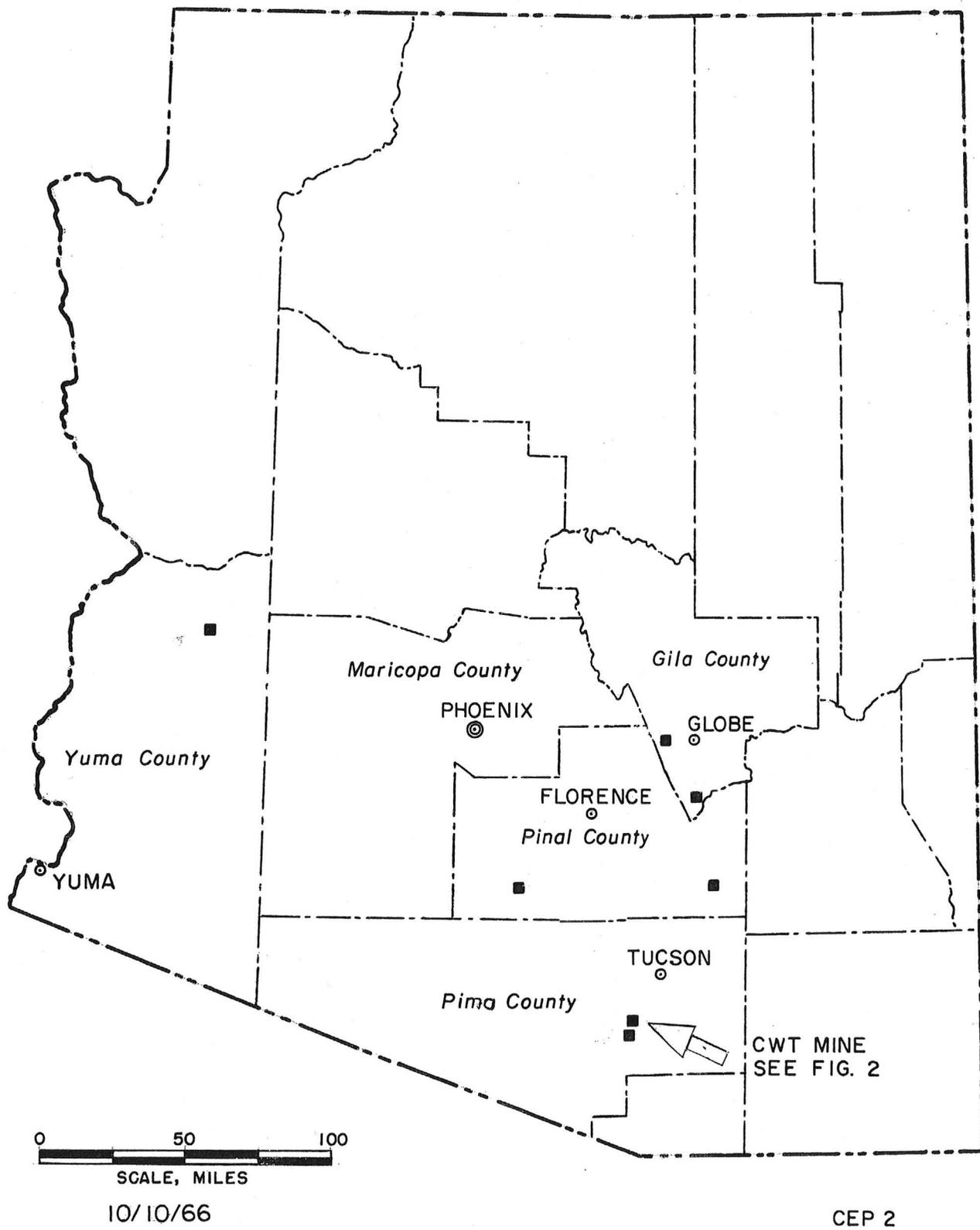


FIGURE I.- Index Map, Continental Exploration, Inc.

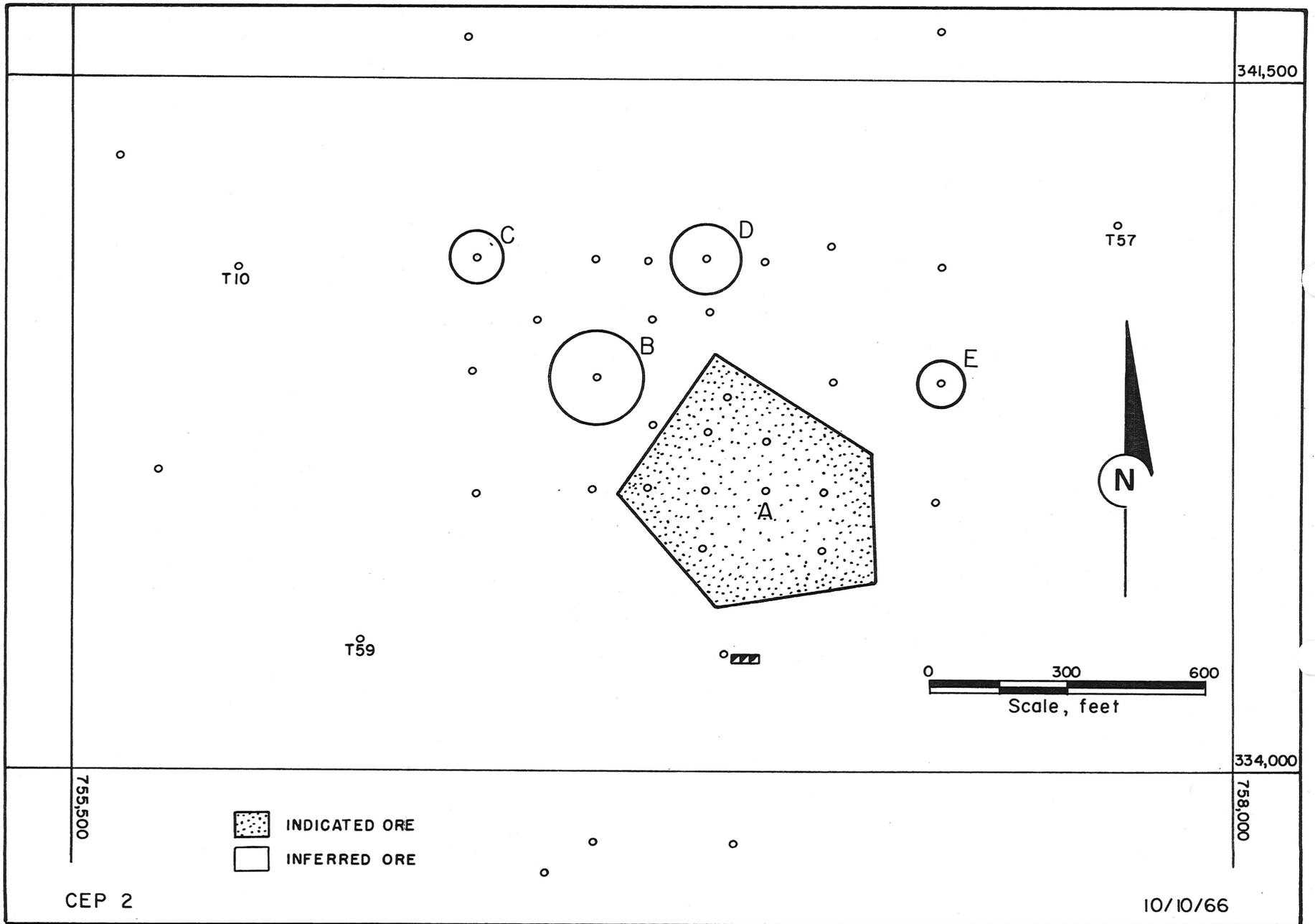


FIGURE 5.-Plan of Ore Blocks, Upper Ore Zone, CWT Mine.

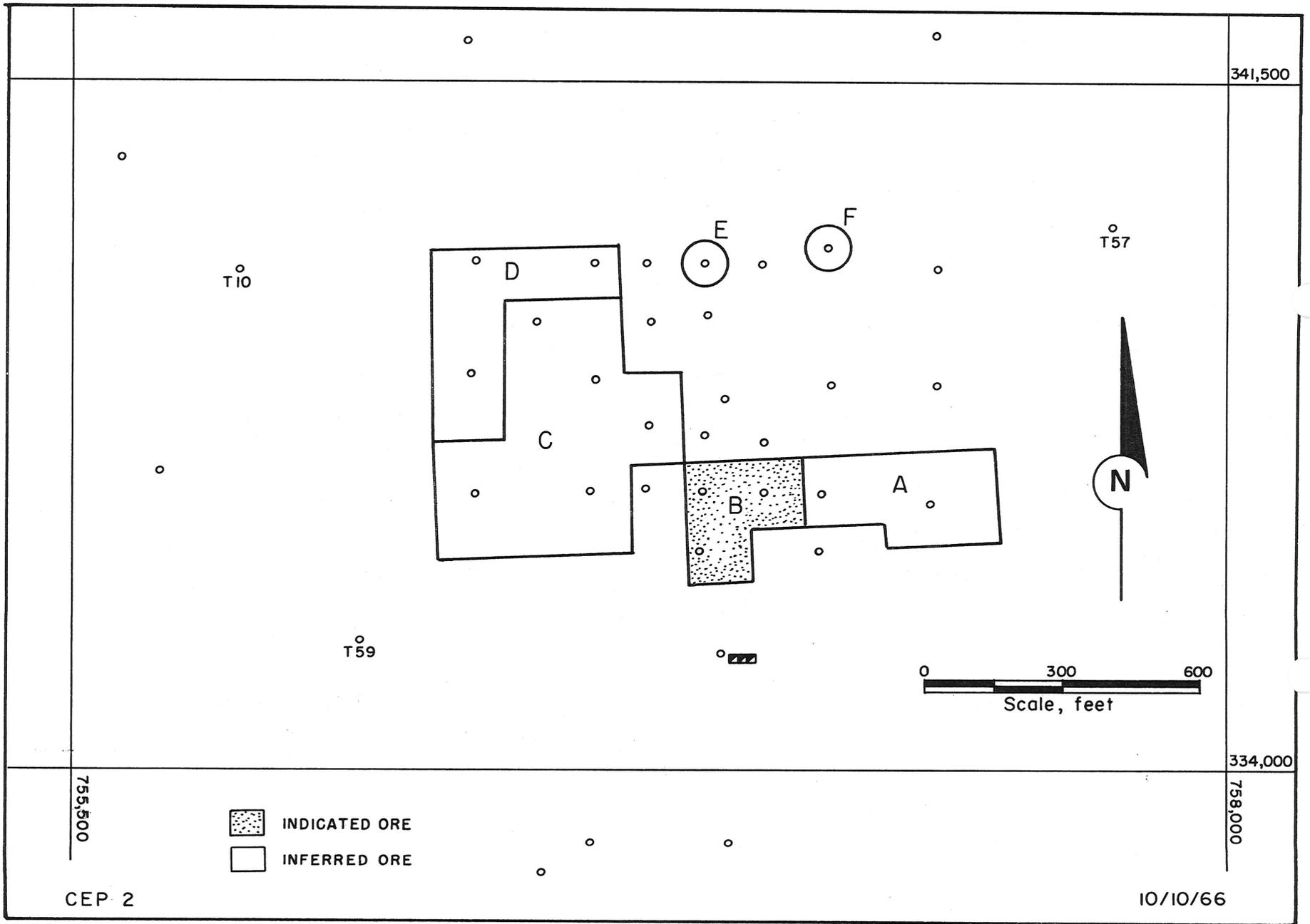


FIGURE 6.-Plan of Ore Blocks, Lower Ore Zone, CWT Mine.



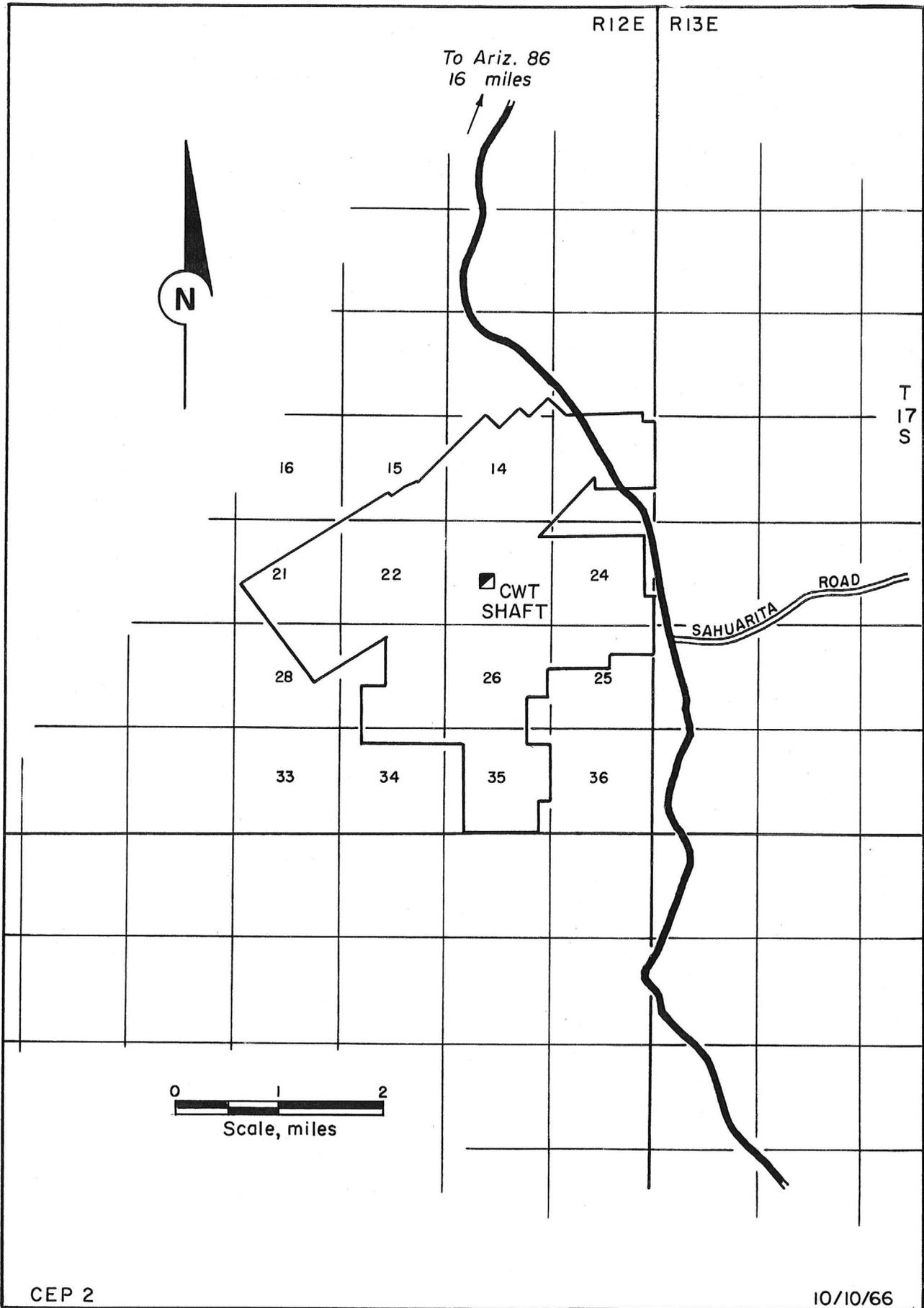


FIGURE 3.-Claim Map, Continental Exploration, Inc.

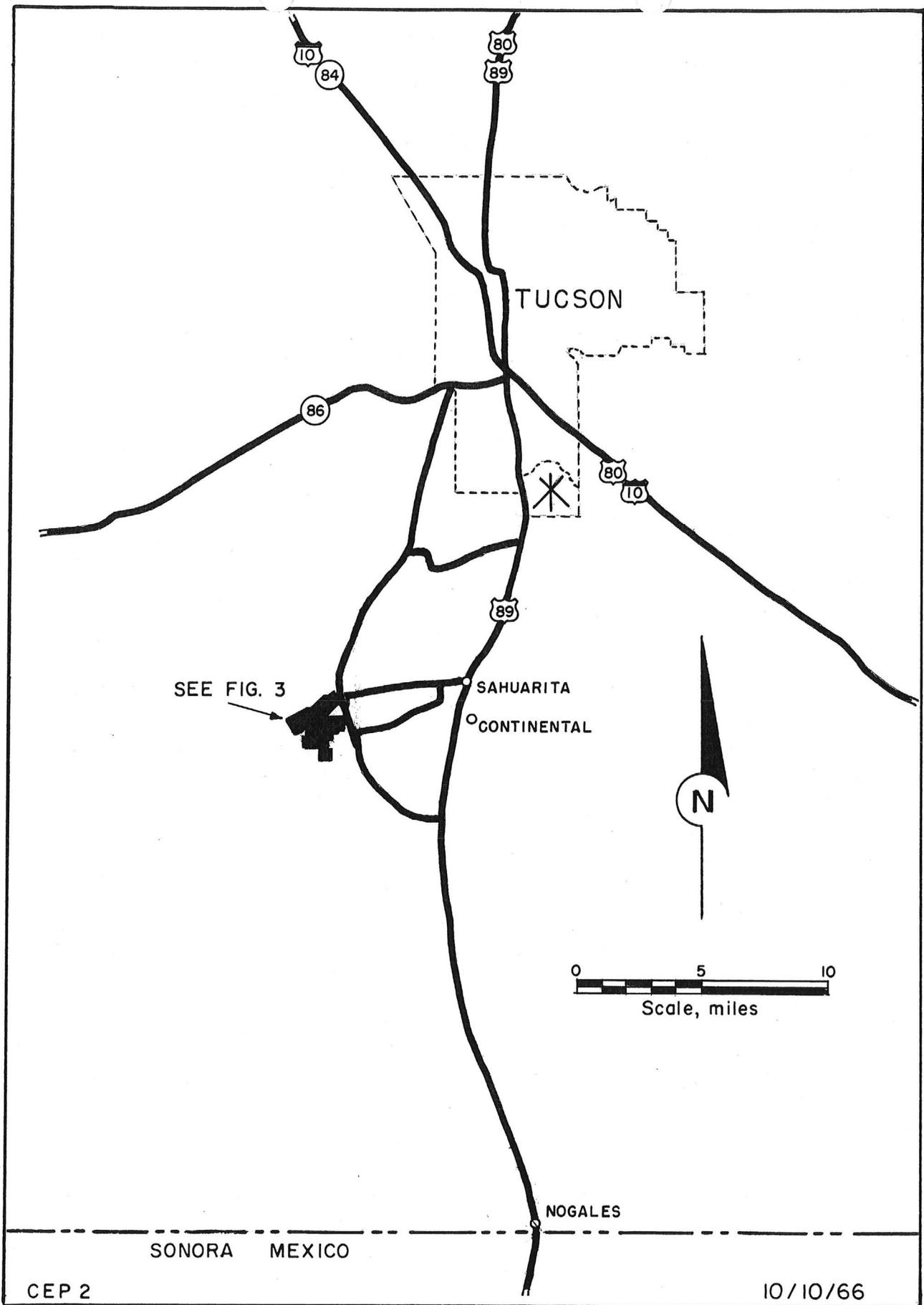


FIGURE 2:- Location Map, Continental Exploration Inc.

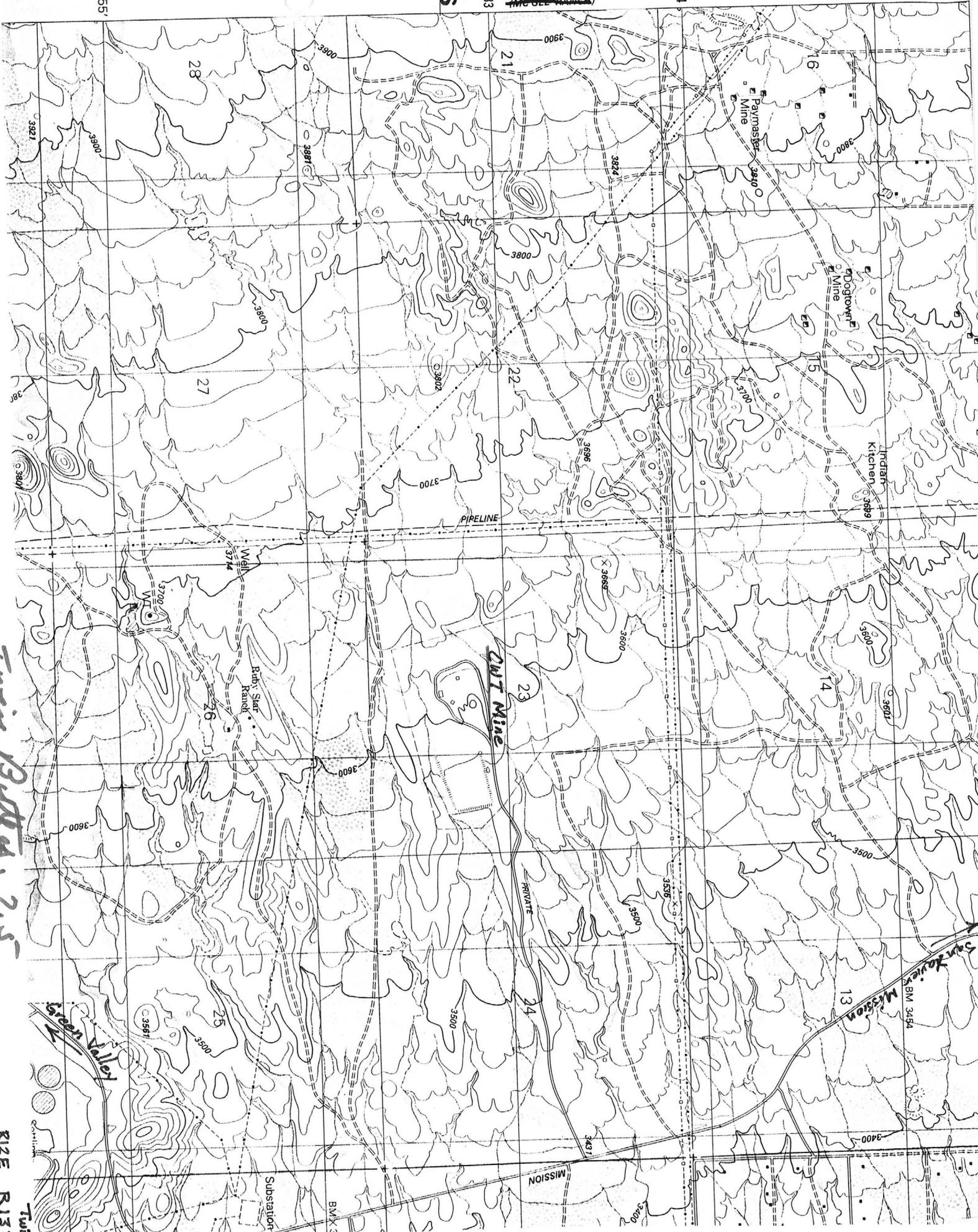
San Diego  
3747 1 NW  
MOORE RANCH

T7S  
3833

3834

3835

55'



Twin Butte, 7.5

Twin RIZE RIZE

Green Valley

CWT Mine

Rudy Star Ranch

Indian Kitchen

Paymaster Mine

Dogtown Mine

San Xavier Mission

PIPELINE

PRIVATE

MISSION

Substation

BMX 3

BM 3454

28

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22

23

24

16

15

14

13

3921

3927

3900

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3981

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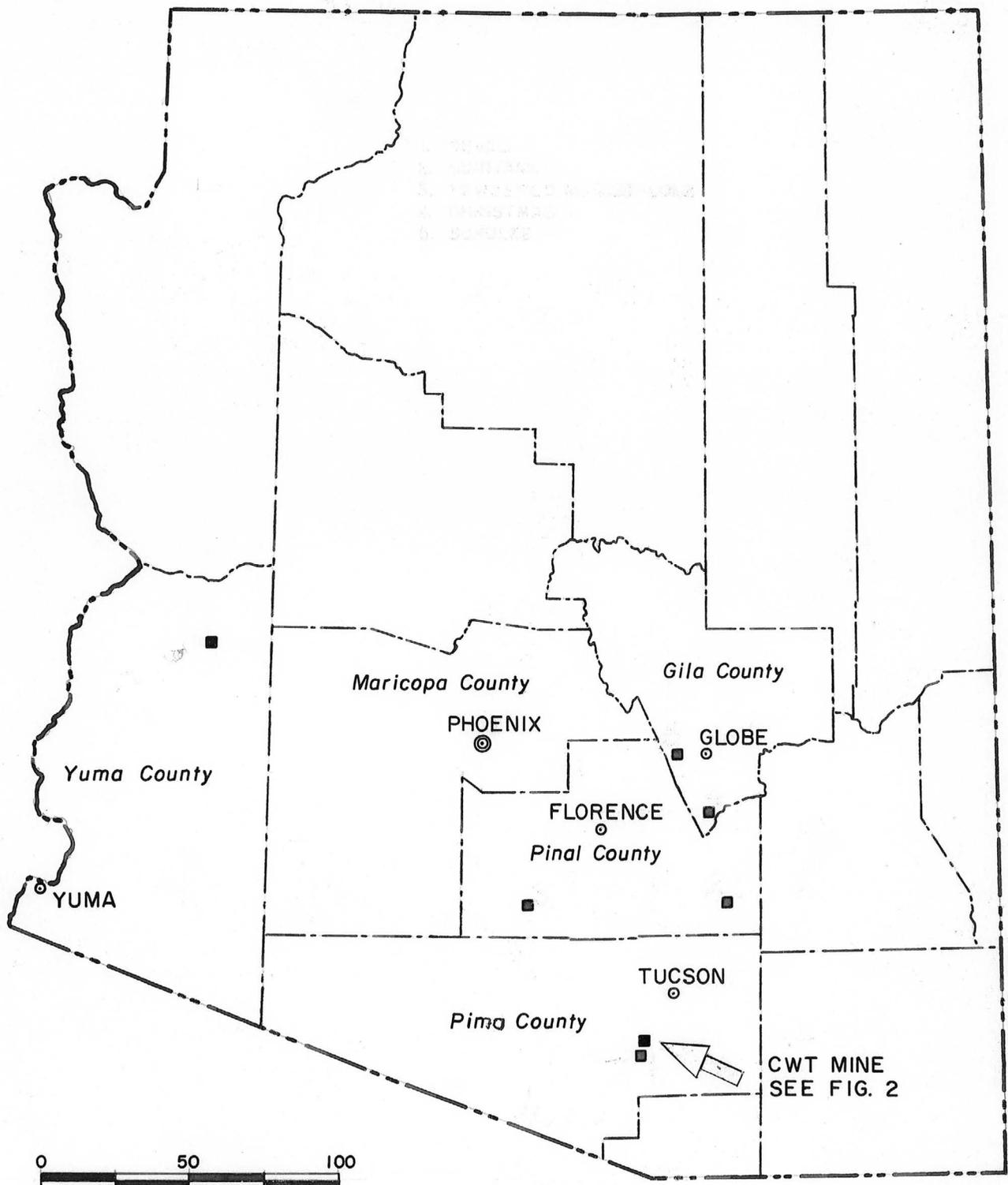


FIGURE 1.- Index Map, Continental Exploration, Inc.

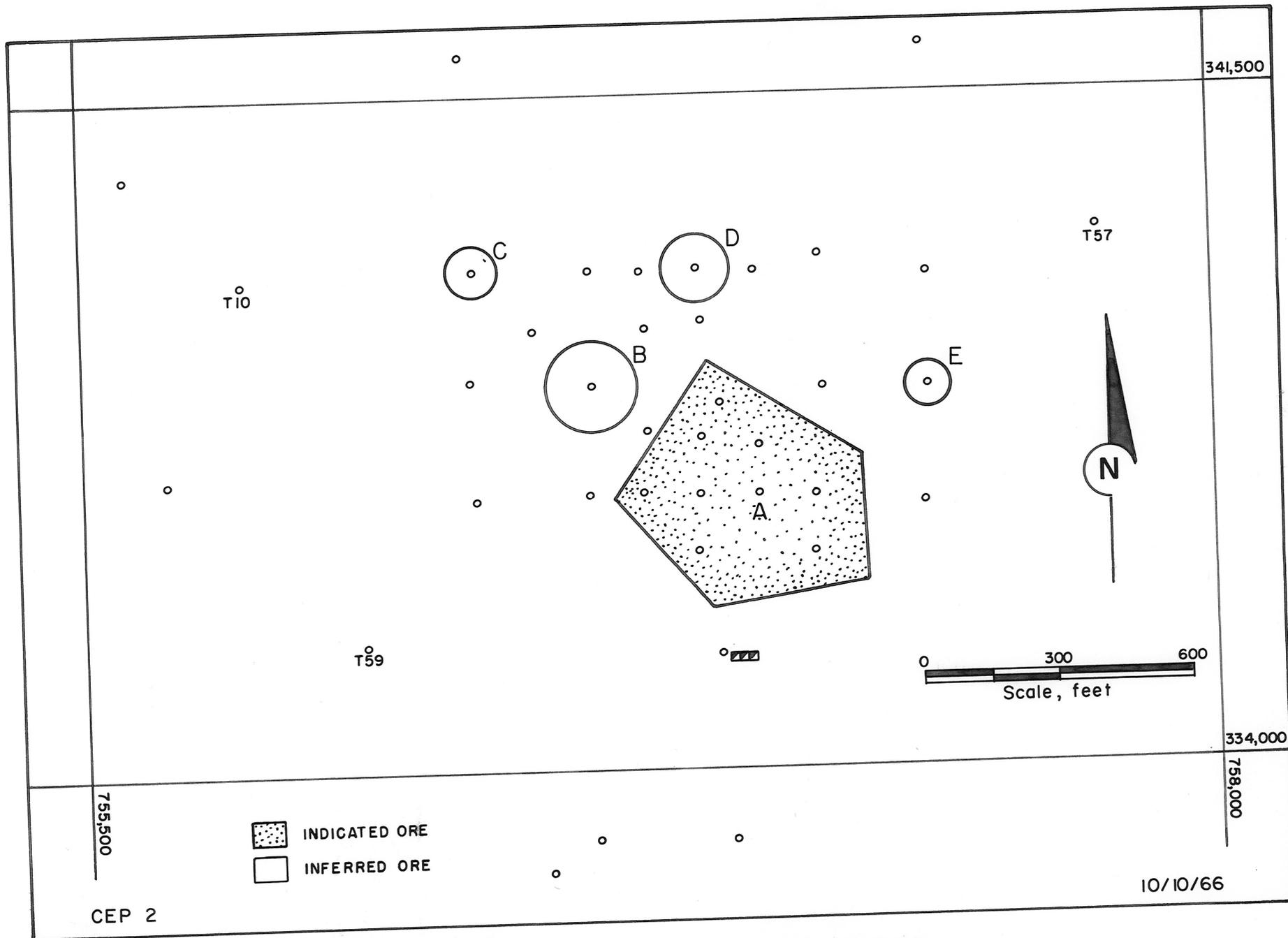


FIGURE 5.-Plan of Ore Blocks, Upper Ore Zone, CWT Mine.

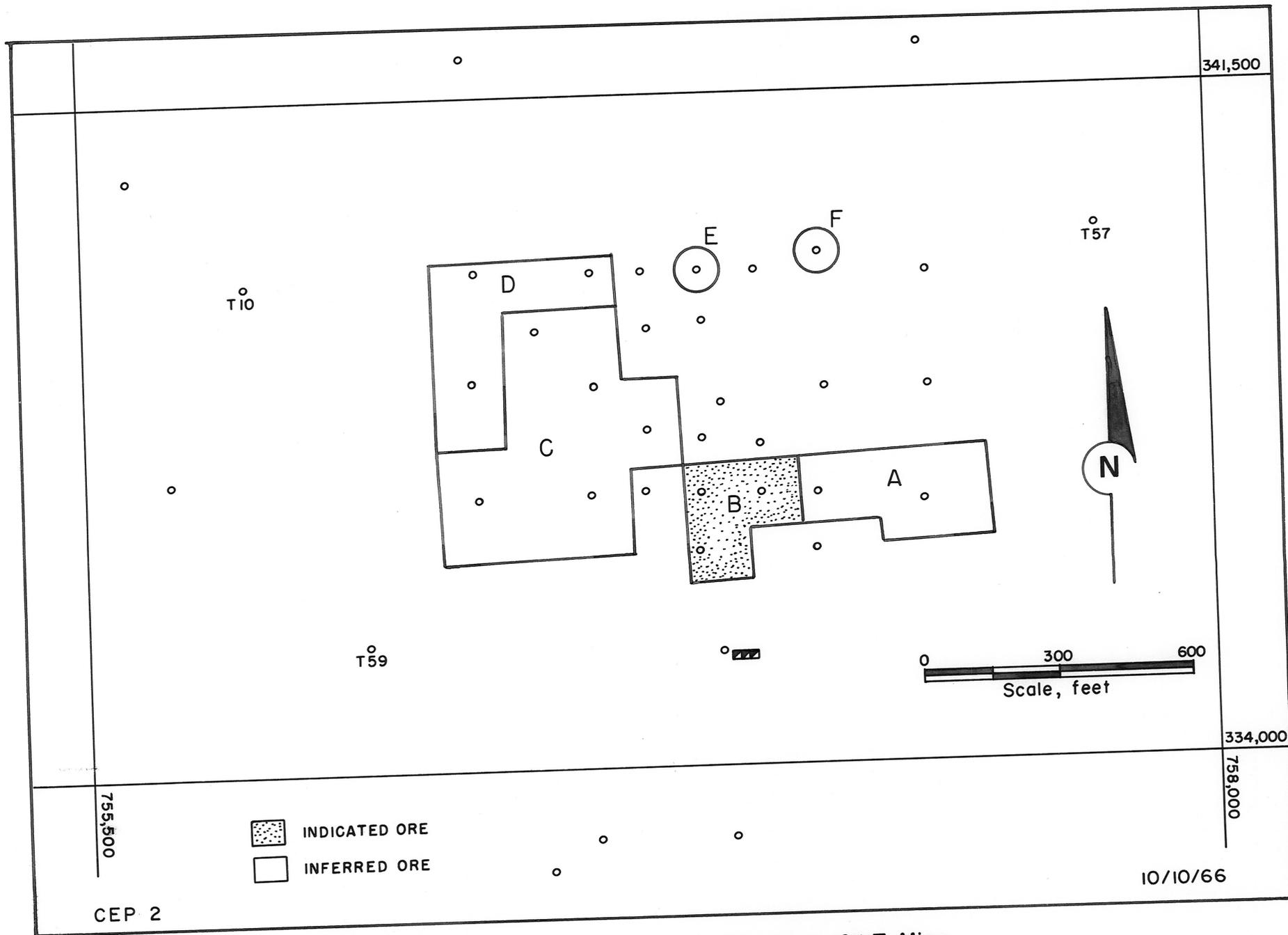


FIGURE 6.-Plan of Ore Blocks, Lower Ore Zone, CWT Mine.

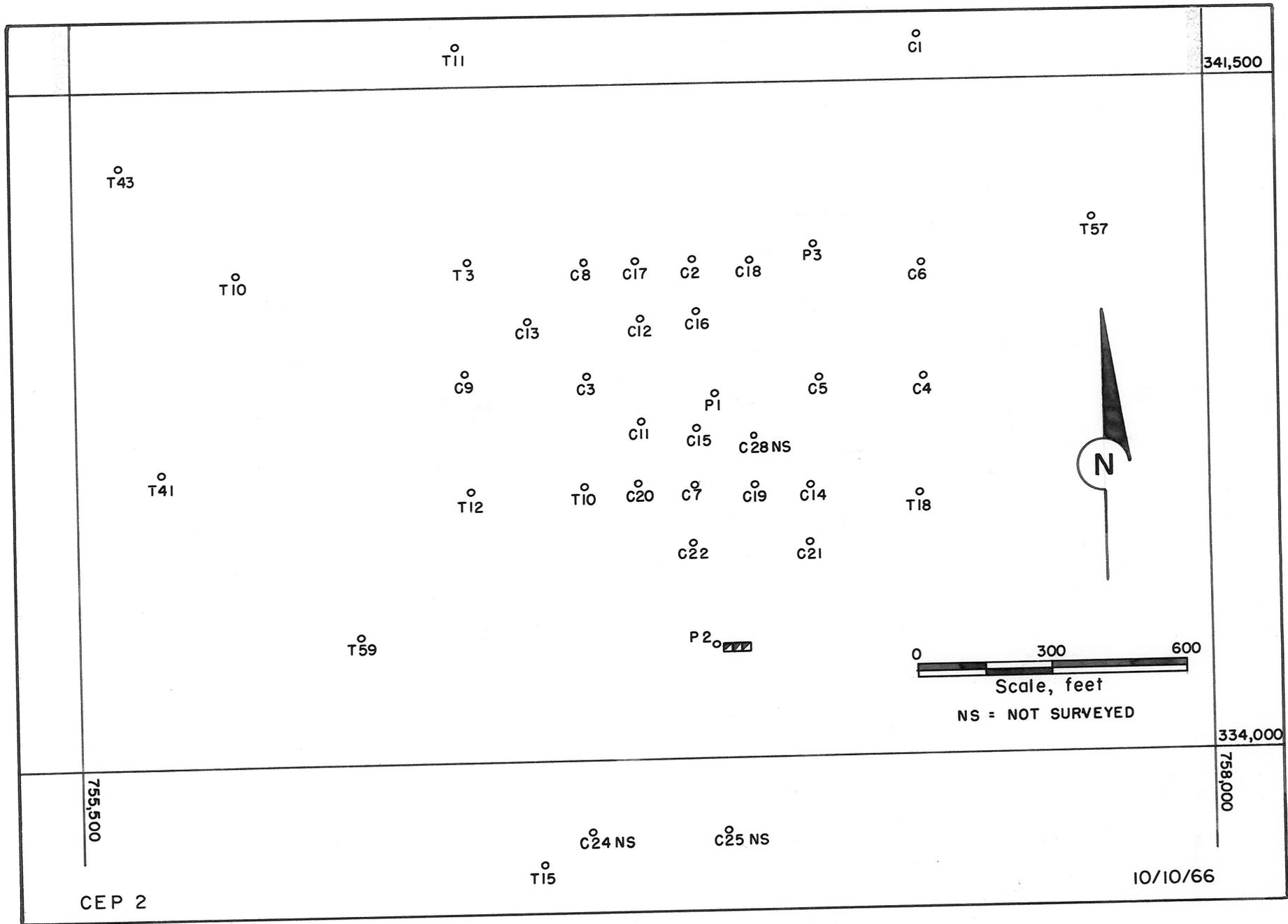
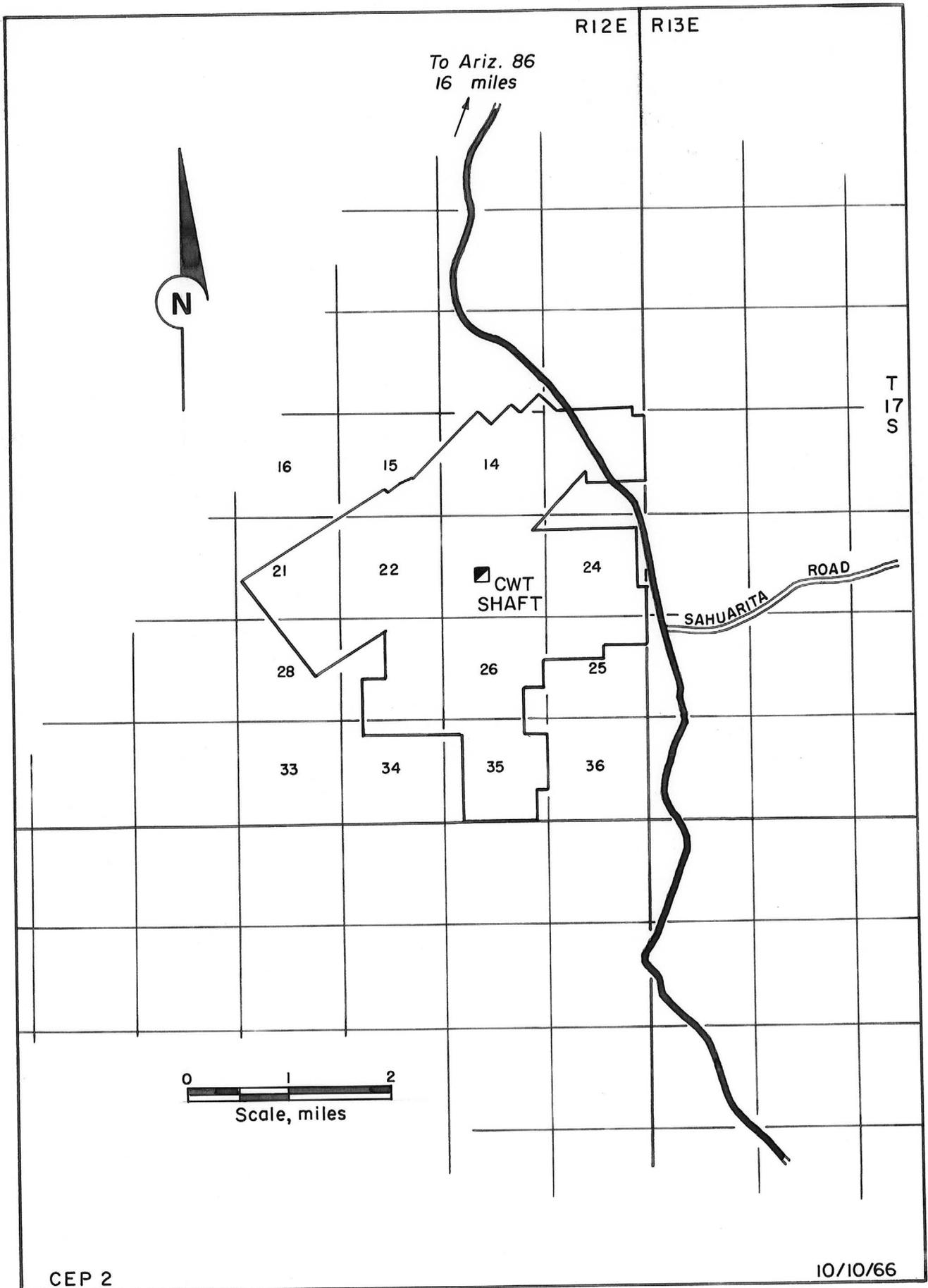


FIGURE 4.- Plan of Drill Holes, CWT Mine.



CEP 2

10/10/66

FIGURE 3.-Claim Map, Continental Exploration, Inc.

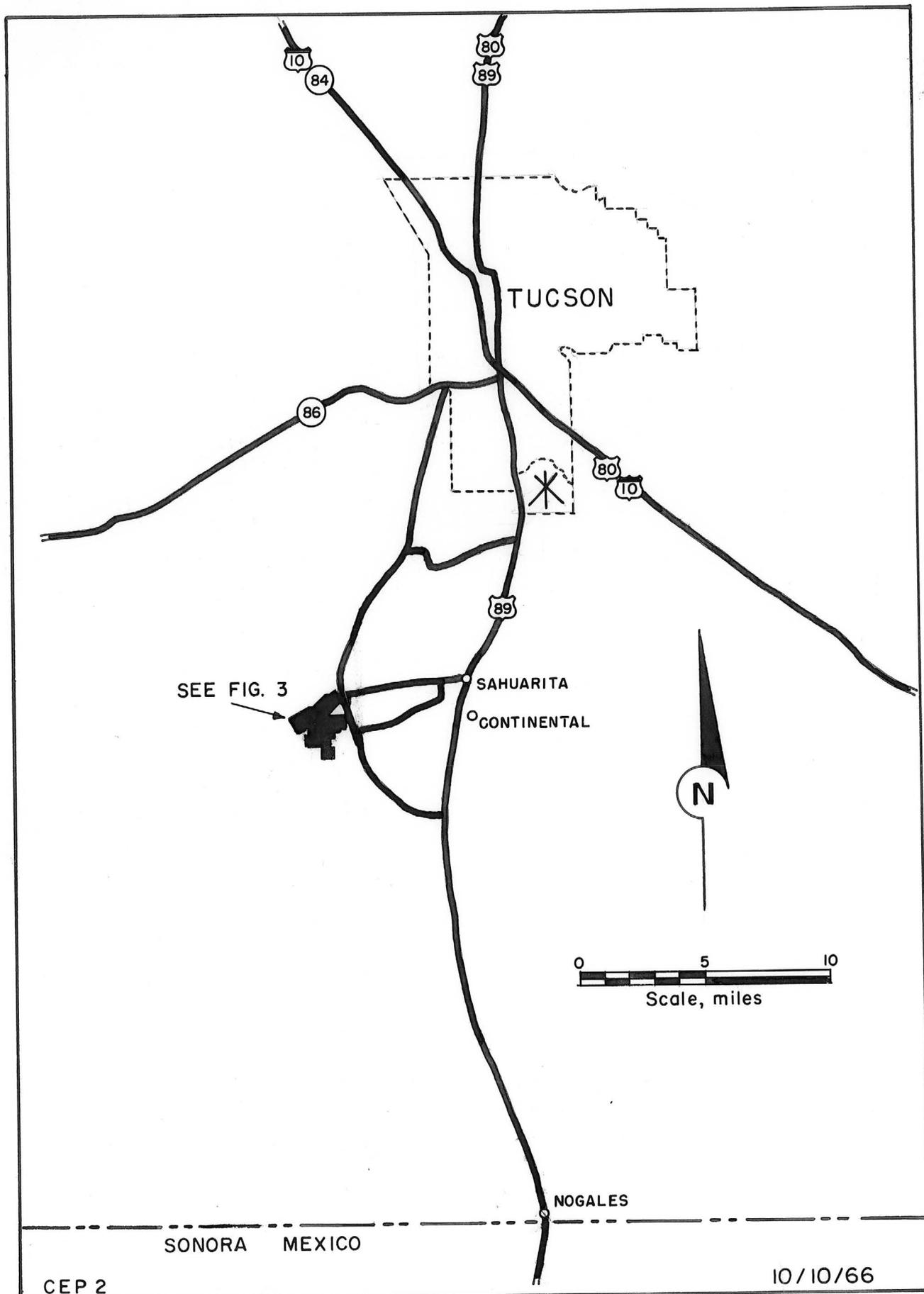


FIGURE 2:- Location Map, Continental Exploration Inc.

CWT MINE

PIMA

Active Mine List April 1967 - 60 men  
Active Mine List October 1967 - 42 men

Continental shut down at the first of the month. Now looking at the Strong and Harris property (Burro claim, Cochise Co.) GWI Note 12/14/67

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Active Mine List April 1968 - 4 men

The shut down of the Continental Materials Company CWT shaft due to a lack of ore reserves. GWI Annual Report 7/68

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Active Mine List Oct. 1968 - 4 men

The mill at the CWT shaft of Continental Materials was sold to Magnum Consolidated Mining of Mohave County to be installed at the McCracken Mine. After all of the underground equipment and the headframe was removed, the collar of the CWT shaft was covered with a large slab of concrete that was pushed into place with a dozer and loader. GWI QR 12/68

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MG WR 9/20/85: At the CWT mine (Pima Co) the surface and mineral estates are severed. The surface belongs to the State and the mineral rights are controlled by the Federal government.

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DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine CWT

Date June 14, 1967

District Pima

Engineer G. W. Irvin

Subject: Mine visit by engineer

Information from mine manager, John Roscoe.

Mine - is now producing about 400 tpd from development, no stoping operations. The ore is a zinc, copper, lead sulfide. One cross cut in the upper level is producing zinc sulfide, from an oxide iron area on top of the limestone. This ore requires separate treatment from the rest. The ore is running higher in lead and lower in copper than the drill holes indicate.

Ore and waste from the mine are dumped on the ground by the skip hoist. Waste is loaded in trucks by a loader for hauling to the dump. The ore is transported to the primary crusher, by the loader.

Mill - At the present time two flotation circuits are employed, a copper and a zinc circuit. The copper and lead are shipped as one product to El Paso, where Asarco smelts it as copper or lead so as to give Continental the best return. Continental is planning on the installation of another flotation circuit, to separate the lead from the copper.

The concentrates are loaded into trucks by the same front end loader that handles the mine run ore and waste. Water for milling is obtained from the mine.

Power - Three Cooper Bessemer gas burning diesels furnish the power. Natural gas is piped to the operation from Tucson. It is claimed that power costs are approximately equal to Trico power. It is expected that costs will go down, for present power demand is at the maximum or over for one engine, so two are loafing on the job.

Comment - This is a good looking, well constructed plant. The use of a loader to handle the muck from the mine to the primary crusher, and also for waste, is due to the high angle of repose and stickiness of the muck when damp, or wet. A light shower will have muck sticking to the underside of the mill conveyor belts.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine C W T Shaft of Continental  
Materials Company

Date Noveember 18, 1966

District Pima

Engineer G. W. Irvin

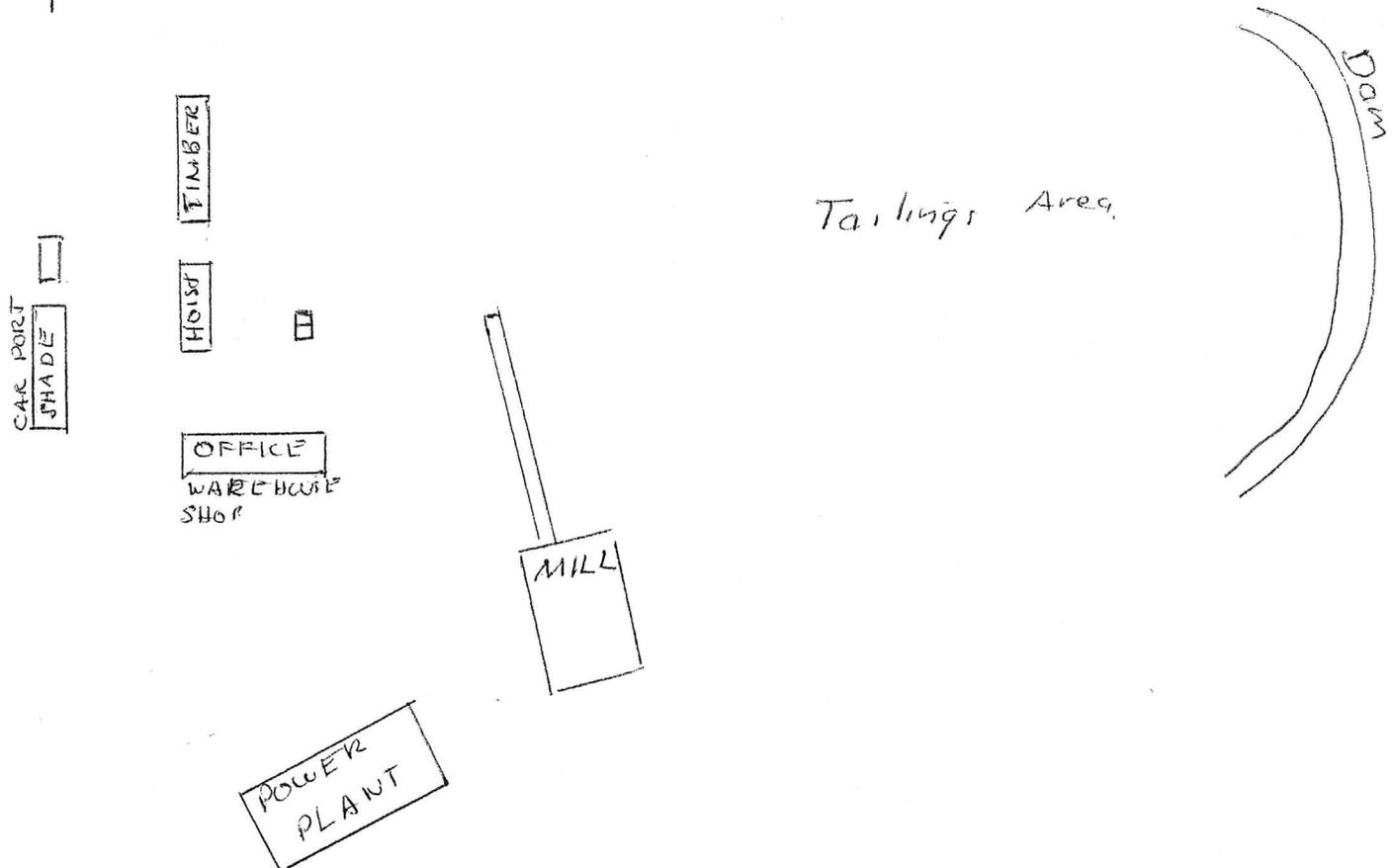
Subject: Report on Mine activity. Personal visit by engineer.

REFERENCES See previous reports.

Mr. Roscoe the manager was not at the mine.  
Mr. Brady the mine supt. was underground.

Mill and poerplant construction appears to be progressing nicely.

Talked with Mr. Elmer McVey of the Sahuarita Mining & Ranching  
Company. At present they are engaged in a contract to build a dam  
for the tailings pond. This dam is being made of mine waste, and  
dirt. The pond is located just east of the plant site, which  
includes the mill, mine and powerplant, as sketched below (not to scale)



1

**DEPARTMENT OF MINERAL RESOURCES**  
**STATE OF ARIZONA**  
**FIELD ENGINEERS REPORT**

Mine CWT Shaft of the Continental Materials Co. Date Friday September 30, 1966  
District Pima Engineer G. W. Irvin  
Subject: Mine visit by Field Engineer. Interview with John Roscoe, Manager.

REFERENCES - See previous reports.

PRESENT OPERATIONS - 2500' of drifting has been completed on the 800 and 900 foot levels from the 1000' CWT Shaft. A little raising from these two levels has been done also.

NEW CONSTRUCTION - The Cooper Bessemer engines (3) of about 1000 KW each were purchased from the Arizona Portland Cement Co. They have been installed in a new Butler type building. However the work has not been completed.

About 95% of the concrete for the New 500 miles has been poured. The mill and power plant should be completed sometime in January 1967.

ORE -

The heads are supposed to run as follows.

Zinc----- 7 to 8%  
Copper----- 1%  
Lead----- ½%  
Silver----- ounce.  
Gold----- none  
Cadmium Small amount.

The ore from present development operations is being stock-piled.

So far the ore is considered a contact metamorphic deposit.

RECEIVED  
SEP 30 1966  
STATE DEPARTMENT OF MINERAL RESOURCES

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine CWT Shaft Continental Materials Co. Date June 2, 1966  
District PIMA- Pima County Engineer G. W. Irvin  
Subject: Mine visit and interview with John Roscoe, Manager.

Underground operations: The lower or 900 level station has been completed. Work on the 800 level station is progressing satisfactorily, and should be completed in the near future.

(Note; The Company has a drill hole model in the engineering office, that the Field Engineer has not had the opportunity to examine)

New Construction: The power plant building is about completed, but is now being held in abeyance while design work on the 500 ton mill progresses.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine CWT Date NOVEMBER 26, 1965  
District PIMA Engineer G.W. IRVIN  
Subject: FIELD ENGINEERS REPORT information from John Roscoe, Manager for Continental Ex.

REFERENCES See previous reports.

LOCATION SW of HELMET PEAK- Approximately in section# 23 T17S; R12E.

OWNERS C. D. Wilson, Russell A. Todd, and the Dan Chilson Estate.

OPERATED BY CONTINENTAL EXPLORATION P. O. BOX 11216 Emery Park Station, Tucson.

The main shaft is now down 1001', stations are being cut on the 785 and 915 levels, below the collar of the shaft. The main haulage drifts will run north from the stations. The shaft is now making considerable water. Some ore has been cut in the shaft. Low grade copper pyrite in a 15' vein and some lead zinc in broken pieces in fracture zones.

Steel sets have been used in the three compartment shaft. About 65% of the shaft has been concreted. The wood lagging is left in place and the concrete is poured into forms so that it covers the steel sets and the wood lagging. The concrete does extend from the 760' level to the bottom. The Arkose section hasn't given to much trouble yet, but the fanglomerate between the Arkose and limestone has.

At the present time the mine is connected with Trico Electric, but are installing 3 Cooper Bessmer dual fuel engines#, a natural gas line is being run to the mine by the Tucson Gas & Electric Co. The three engines# are each of 1150 KW. The power plant is now being constructed.

A 500 ton mill is being designed. This is to be located at the site. It will have a zinc ~~1##~~ copper flotation circuit. A lead circuit may be added, depending on the amount of lead developed in the ore reserves.

A specimen of ore picked up in the shaft sinking ran 17%Zn, 0.1 Pb, 1½oz Ag & .02Cu.

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Mine Visit to Continentals CWT shaft, interviewed the general manager. Mr. Roscoe reported that the two underground shaft stations were about half finished, and that two large sumps had been completed.

GWI WR 1/17/66

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DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine C W T Mine (Nevada Shaft) Date May 12, 1965  
District Pima (Twin Buttes) District, Pima Co. Engineer Axel L. Johnson  
Subject: Mine Visit. Information from John G. Roscoe, Manager

References: Report of March 10, 1965

Present Activity Shaft sinking, with 20 men working, and operations on a 3 shift basis.

Review of Operations The shaft is now down to a depth of 128 ft. A Cryderman mucking machine is used in connection with the shaft sinking operations. 4 men are working on each shaft crew, or 12 men total for the 3 shifts.

Steel shaft sets are used, which are cut to size and welded, prior to being lowered down for installation in the shaft. Wooden lagging, consisting of 2" fir planks, are used in the shaft.

Additional This is also called the Nevada ~~shaft~~ Shaft.

The local company is called Continental Exploration ~~Co.~~ Inc.

Local address:- P. O. Box 11216, Emery Park Station, Tucson, Ariz.

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Continental Mining has 31 Total employees.

16 in Shaft

15 - Surface, supervisory including manager.

Shaft as of August 26th down 670 feet with the 655 to 670 being concreted.

The first 456' below the collar is also concreted.

Mill still in the design stage. Sign on road says, Cont. Expl Inc.

C.W.T. Unit, Nevada Shaft. Shaft to be sunk to 1050'.

Note from G. W. Irvin, August 23, 1965

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DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine C W T Mine

Date March 10, 1965

District Pima (Twin Buttes) District, Pima Co.

Engineer Axel L. Johnson

Subject: Mine Visit. Information from Maurice Beady.

References: Report of Feb. 10, 1965.

Present Mining Activity: Shaft sinking, with 10 men working one shift.

Review of Recent Operations: The shaft is now down to a depth of about 15 ft. and is in rather loose overburden. Forms are placed around the outer edges of the shaft and concrete is poured on the outside of the forms. Ready mix concrete from Tucson Sand and Soil is used, the concrete being a 6 sack pea gravel mix.

The present one shift operation will be continued through the 40 ft. of overburden until the rock is encountered. Then a Cryderman mucking machine will be installed and the work will be carried on using 3 shifts, using a total of 15 to 18 men. It is expected that this will start shortly after April 1st.

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DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine C W T Mine Date Feb. 10, 1965  
District Pima (Twin Buttes) District, Pima Co. Engineer Axel L. Johnson  
Subject: Mine Visit. Information from John Roscoe

References Report of Jan. 13, 1965

Owners C. Darrell Wilson, Russell A. Todd, and Chilson Estate

Lessees & Operators

Continental Materials Corp., 820 Ninth St. South, Grand Junction, Colo.  
C. H. Reynolds, General Manager  
Local address --- P. O. Box 11216, Emery Park Station, Tucson, Arizona.  
C. H. Reynolds, Gen. Manager  
John Roscoe, Manager of local operations  
Maurice Brady, Mine Superintendent

Number of Claims Approximately 250 claims

Principal Minerals Zinc and copper, with smaller amounts of lead and silver.

Present Activity Installing mine hoist, air compressor and other equipment. 10  
men working -- day shift only. Shaft sinking expected to start next week.

Ore Values See report of Jan. 13, 1965

Milling & Marketing See report of Jan. 13, 1965.

Review of Recent Operations

Since last report of Jan. 13, 1965, the following work has been done:  
(1) Finished office, warehouse & shops building, which was started on contract  
to Pima Steel Building Co.  
(2) Finished erection of steel head frame.  
(3) Obtained and started installation of electric hoist. This hoist is  
a Vulcan -- 250 H. P. Electric Hoist, manufactured by Vulcan-Denver Corporation.

Proposed Plans

Company expects to start shaft sinking next week. The first 40 ft. will  
be done by hand, working one shift only. After this is finished a Cryderman mucking  
machine will be used, and the operations will be carried on using 3 shifts, with 4  
men (3 miners and a hoistman on each shift. Company is not contracting the shaft  
sinking out, but will do it with their own pay roll.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine CWT Mine Date Jan. 13, 1965  
(formerly Helmet Peak Exploration-WCT Lease)  
District Pima (Twin Buttes) District, Pima Co. Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from John Roscoe.

References: Reports of Sept. 9, 1964 & July 7, 1964.

Location: See report of July 7, 1964. The shaft, mine plant, and office is located on Sec. 23 - T. 17 S. - R. 12 E. To reach same, drive on the Twin Buttes road a distance of 3.2 miles from the old San Xavier mine shaft, turn right (west) and drive 1.6 miles to the mine.

Owners: C. Darell Wilson, Russell A. Todd, and Chilson Estate.

Lessees & Operators: Continental Materials Corp., 820 Ninth St., South, Grand Junction, Colo.  
C. H. Reynolds, General Manager  
Local address - 334 W. Valencia Road, Tucson  
John Roscoe, Manager of local operations  
Maurice Brady, Mine Superintendent

Number of Claims: Approximately 250 claims.

Principal Minerals: Zinc and copper, with smaller amounts of lead & silver.

Present Activity: Erecting a head frame in preparation for shaft sinking. 7 men working, day shift only.

Ore Values: Approx. as follows: -

Zinc	8 to 9%
Copper	1.25 to 1.40%
Lead	0.50%
Silver	0.75 to 1.25 oz.

Milling & Marketing: A mill will be constructed for milling the ore. Preliminary laboratory work has been done towards determining the flow sheet and mill design to use in the mill construction. The construction of the mill will be done on contract to a company specializing in mill construction.

Review of Recent Operations:

(1) A 36" dia. hole 850 ft. deep was drilled on contract to Technical Drilling Services, and cased all the way with 30" casing. This hole was started in October and finished in November.

The hole was drilled for the purpose of providing mine ventilation for the future underground workings. It is also expected that it will, to some extent, drain the area in the vicinity of the shaft, thus facilitating shaft sinking operations.

(2) A building to house the offices and shops was constructed on contract to Pima Steel Building Co. This was done in December.

(3) Concrete piers were set for the head frame and hoist in December.

(4) The steel head frame from the Moore Mine at Johnson Camp was purchased, dismantled, and hauled over to the mine site in December. This is now in the process of being painted, assembled & erected.

Proposed Plans: Shaft sinking operations will be started as soon as the head frame is erected.

The shaft will be a 15'-8" x 5'-0", 3 compartment vertical shaft. It will be sunk

CWT MINE (continued)  
(formerly Helmet Peak Exploration-WCT Lease)

1-13-65  
Page 2

to a depth of 975 ft., will have 2 levels and will be used for future mine production.

The shaft sinking will not be contracted out, but will be done by the company's own payroll.

The shaft sinking operations will be carried out on 3 shifts - with 4 men (3 miners and a hoistman) on each shift. A Cryder mucking machine will be used.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine     Helmet Peak Exploration - WCT Lease                     Date     Sept. 9, 1964  
District   Pima (Twin Buttes) District, Pima Co.                     Engineer   Axel L. Johnson  
Subject:   Field Engineers Report.   Information from John Roscoe.

References     Report of July 7, 1964

Location     See report of July 7, 1964

Owners       See report of July 7, 1964

Option to     Continental Exploration Co., exploring for Continental Materials Corp.,  
820 Ninth St., South, Grand Junction, Colo.                     Inc.,  
Local address ----- Continental Exploration Co., 334 W. Valencia Road, Tucson.  
Tel. 294-4951  
Herbert Reynolds, Gen. Manager of local operations.  
John Roscoe, Engineer, 5141 E. Ninth St., Tucson --- Tel. 326-8565

Number of Claims     About 250 claims, optioned from the 3 owners as shown above.

Principal Minerals     Zinc and Copper, with small amounts of lead and silver.

Present Activity     None at present.     Diamond drilling just completed, and the results  
of the drilling are being evaluated, and plans being made for future operations.

Geology & Mineralization     Mr. Roscoe reports a fairly flat ore body, about 17 to  
20 ft. in thickness, with a general slope to the south.     Ore body is covered by from  
500 to 750 ft. of overburden.     On account of the relatively shallow ore body and the  
depth of the overburden, it would have to be mined by underground methods.

Ore Values       The following averages were reported by Mr. Roscoe, as being approximate  
figures:             Zinc -- 8 to 9 %;     Copper -- 1.25 to 1.40 %;     Lead 0.50 %;  
Silver -- 0.75 to 1.25 oz.

Ore in Sight     Not reported.

Milling & Marketing     A mill to treat the ore will be required.

Past History     See report of July 7, 1964

Review of Recent Operations     Diamond drilling has just been completed by Boyles Bros.,  
25 holes being drilled by Continental.     This is in addition to drill holes that were  
drilled by the previous lessees.

Proposed Plans     The company is considering sinking a shaft.     This will be a production  
shaft to be used for future mine production.

Additional     Company has requested that there will be no publication, as yet, as their  
plans are not yet definite.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine        Helmet Peak Exploration -WCT Lease                      Date        July 7, 1964  
District    Pima (Twin Buttes) District, Pima Co.                      Engineer    Axel L. Johnson  
Subject:    Field Engineers Report.    Information from Russell A. Todd.

References    Report of Pima Mines of May 13, 1963, under "Exploration".

Location    Southwest of Helmet Peak and north of Ruby Star Ranch.    Approx. Sec. 23 --  
T 17 S -- R 12 E.    (Secs 13, 14, 15, 21, 22, 23, 24, 27 & 34 -- T 17 S -- R 12 E.)

Owners      C. Darell Wilson, Russell A. Todd, and Chilson Estate.

Option to    Continental Exploration Co. exploring for Continental Materials Corp.,  
820 Ninth St. South, Grand Junction, Colo.  
                  Board Chairman --- Gerald Gidwitz  
                  President -- Willard Gidwitz

One of the Gidwitz is reported to live in Scottsdale -- the other in Grand Junction, Colorado

Number of Claims    About 250 claims, owned by the 3 owners mentioned above.

Principal Minerals    Exploration for copper.

Present Activity    Diamond drilling by Boyles Bros. on contract.    18 holes reported  
to have been drilled to date, with more to follow.    1 drill rig and sometimes 2 used.

Past History

- (1) Exploration by Bear Creek Mining Co. in 1961 and 1961, and dropped by Bear Creek.
- (2) Exploration April to June, 1963 by Pima Mining Co., and dropped by Pima, July, 1963.
- (3) Optioned to Continental Exploration Co. in latter part of 1963.
- (4) Diamond drilling started by Continental Exploration Co. about March 1, 1964.