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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BIT OF HOPE

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 1311

LOCATION: TOWNSHIP 10 N RANGE 3 W SECTION 13 QUARTER --
LATITUDE: N 34DEG 12MIN 17SEC LONGITUDE: W 112DEG 32MIN 03SEC
TOPO MAP NAME: WAGONER - 7.5 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:
UNKNOWN

BIBLIOGRAPHY:
ADMMR BIT OF HOPE FILE
ALSO IN SEC. 24

BIT OF HOPE

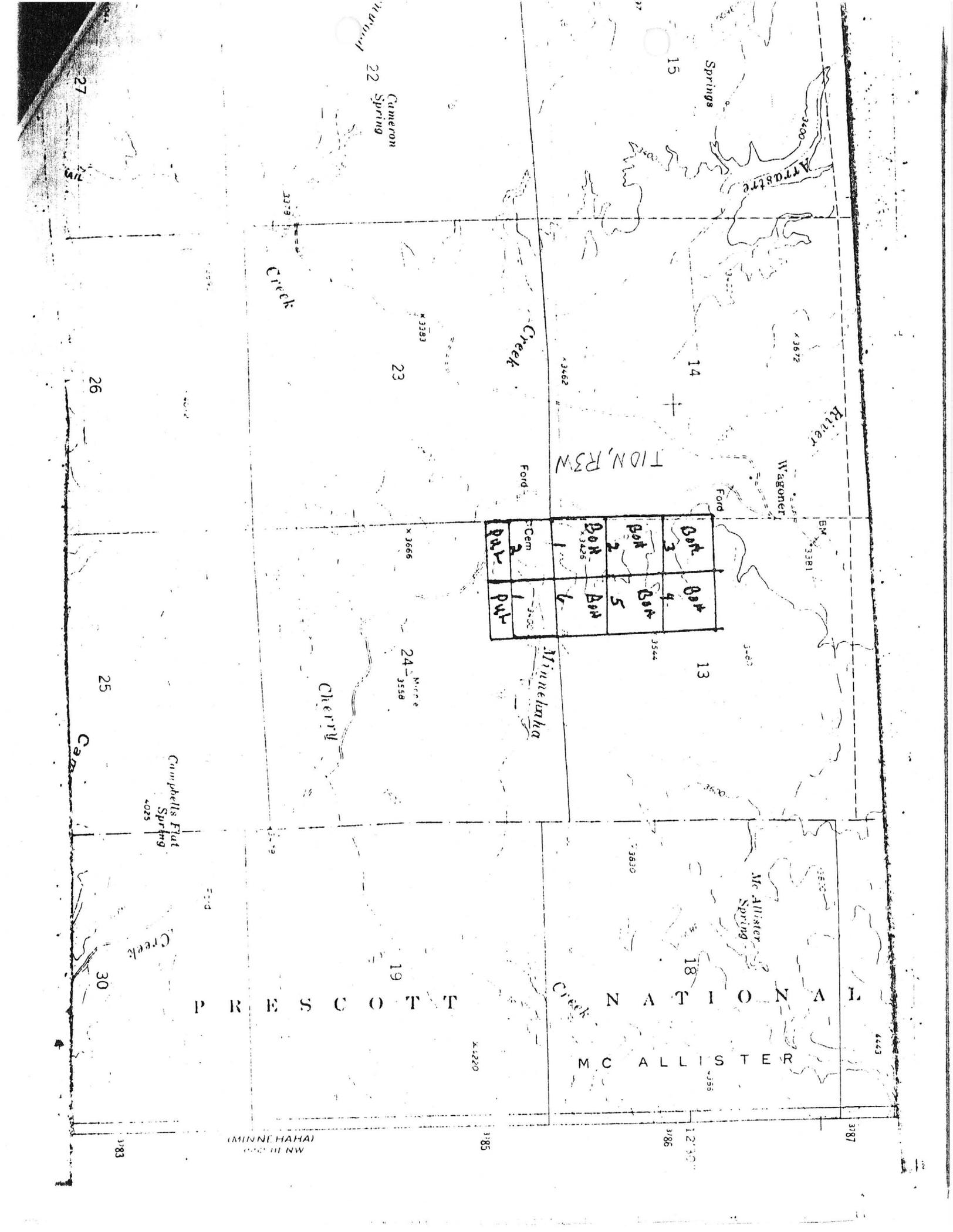
May, 1984

YAVAPAI COUNTY
WAGONER AREA
T10N R3W Sec 13, 24

Includes Pay-U-Later #1 and 2 claims

MILS Yavapai Index #1311

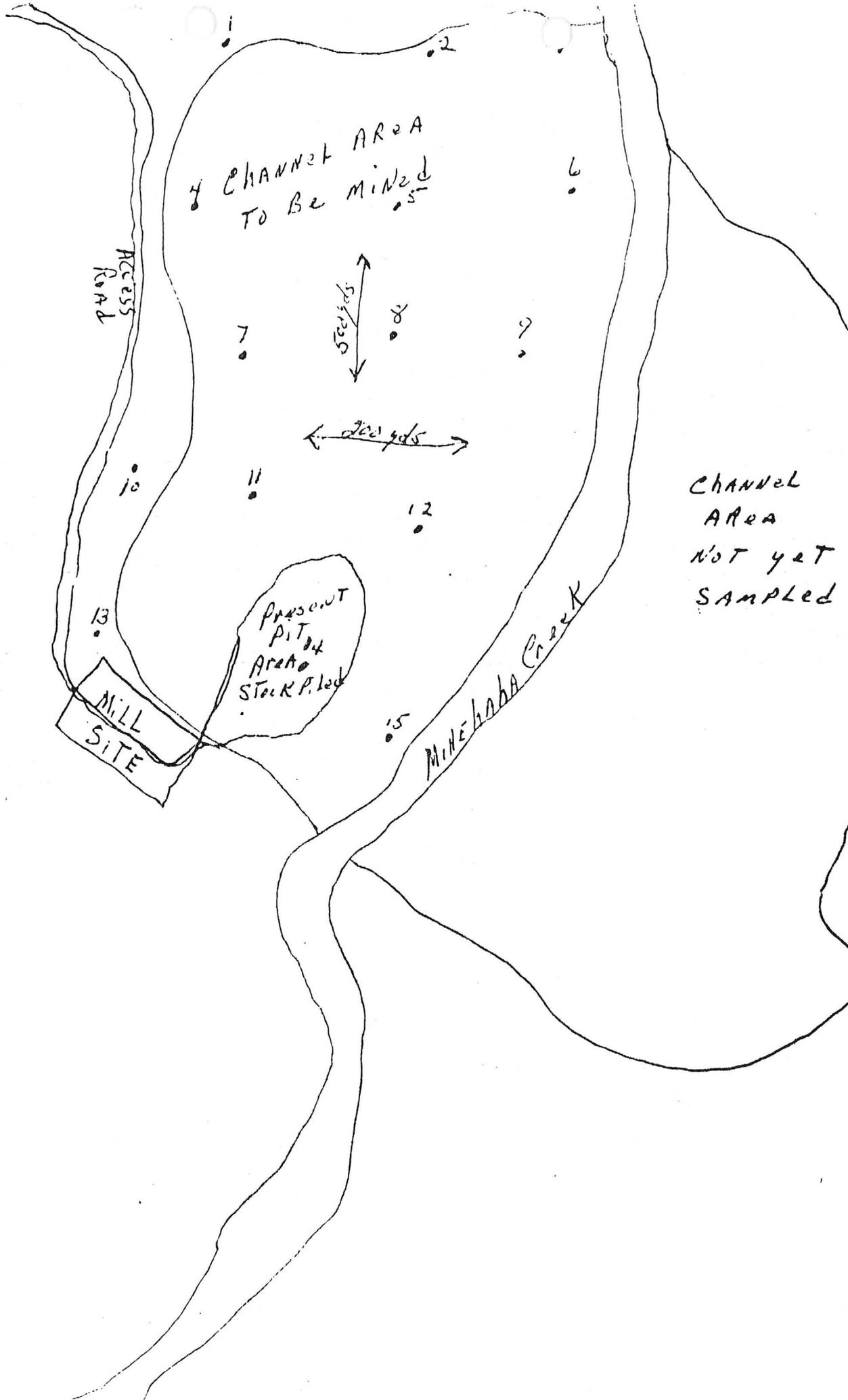
Wagoner, AZ 7.5' Topo (included in file)



Boat	Boat
3	4
Boat	Boat
2	5
Boat	Boat
1	6
Cem	
Pvt	Pvt

P R E S C O T T
M C A L L I S T E R

(MINNEHAHA) NW



CHANNEL AREA
TO BE MINED

Access
Road

50 yds

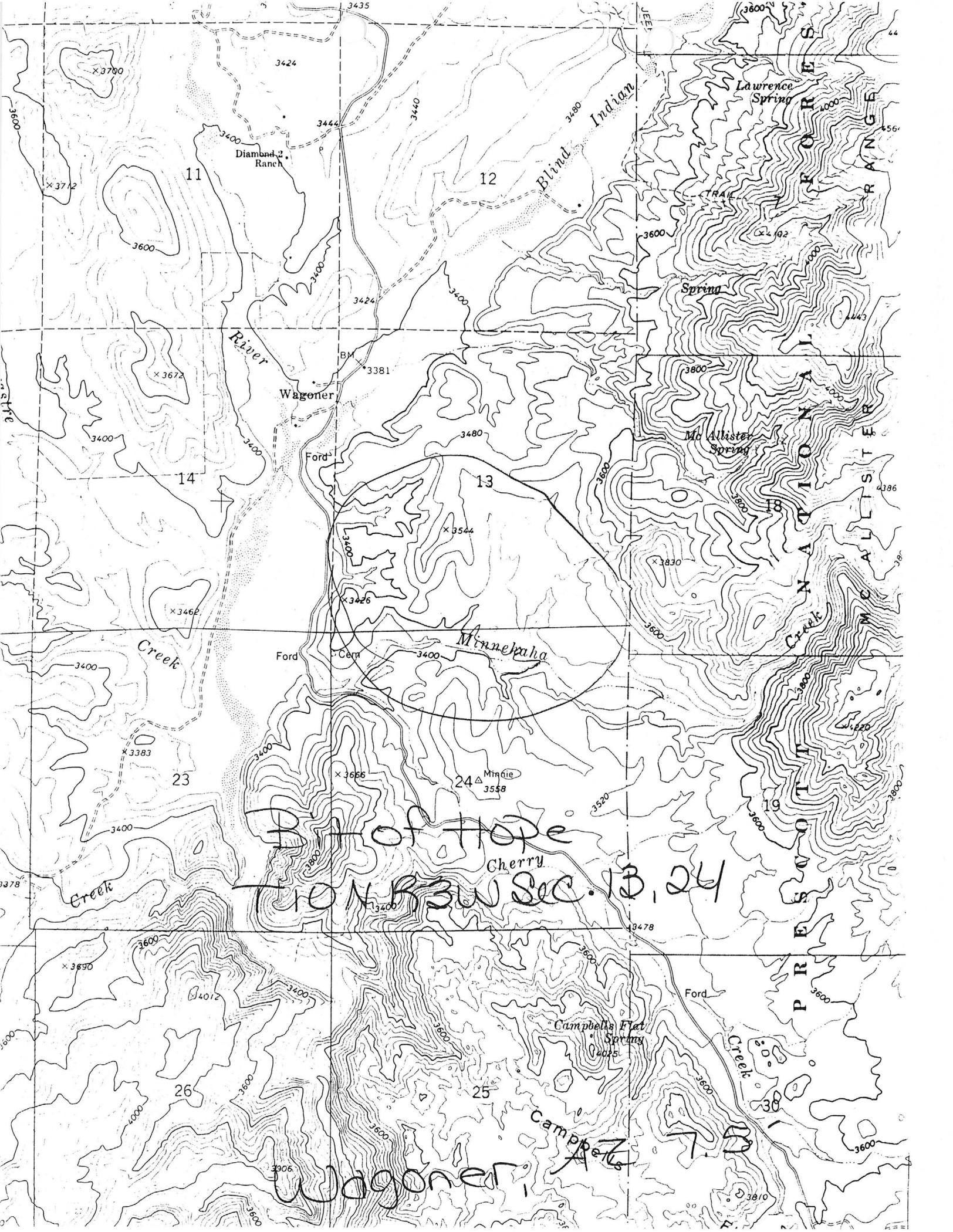
200 yds

MILL
SITE

Present
PIT
Area
Stock Piled

MINEHABA
Creek

CHANNEL
AREA
NOT YET
SAMPLED



B of Hope
Cherry
IRON RISE SEC. 13, 24

Wagoner

Diamond 2 Ranch

Wagoner

Blind Indian

Minnehaha

Lawrence Spring

Spring

Mt Allister Spring

Creek

Creek

Ford

Campbells Flat Spring

Creek

11

12

13

14

23

24

25

26

PERFECT RANGE

McALLISTER

McALLISTER

McALLISTER

McALLISTER

McALLISTER

x3700

3424

3444

3440

x3712

3600

x3672

3424

3381

3480

x3544

x3426

x3462

3400

x3383

x3666

3558

Creek

3400

x3890

4012

3600

3906

3600

3600

3810

3600

3600

3478

3600

3600

3600

3600

3600

3600

3600

3600

3600

3600

3800

3800

3600

3600

3600

3600

3600

3600

3600

3435

JEE

44

456

443

4386

36

36

36

36

36

36

36

BIT OF HOPE

YAVAPAI COUNTY
WAGONER AREA
T10N R3W Sec 13, 24

RRB WR 4/8/83: Dr. Regie Jones reports that he has bought the Bit of Hope, Timber Rattler, Barbara Ann, Joy, Brad and Py-U-Later claims near Wagoner. He said that he has designed gravity equipment for many companies but ther he never got paid what they were worth so now he is going to use his designs on these claims plus 12 other sections in T10N R2 & 3W. The proceeds are to be used to build combination Day Care Denters and Parking Garages and Schools in down-town areas of south-western cities. They are to be church oriented with strict discipline.

*Bit of hope -
Pay-U-Later*

LEE ORO MINA, INC.

Dec. 9, 1983

Carol

The subject property is held by Lee Oro Mina, an Arizona Corporation under a lease agreement from R. D. and Doris Cooper. The property consists of eight claims in Yavapai County, Arizona, filed on B.L.M. land by Mr. Cooper in 1979 and held since that time by him.

10
R 3W

The claims are placer locations and include a total of about 400 acres in Sections 13 and 24, along the high ridges between the Hassayampa River and Minnehaha Creek. Gold has been mined in this area of the Hassayampa since the early Spanish exploration days. From high grade quartz veins in the Bradshaw Mountains and from the creeks and river which comprise the drainage from this range. Placer gold occurs in two primary depositions on this drainage. The first is in a decrepitated granite and clay soil which was deposited over the area as lake bottom aluvial ranging in depth from a few inches to 40-feet. This material now comprises the surface areas of the ridges and mesas of the foothills of the Bradshaw range. The second deposition is in the stream beds and gravels which have been deposited along the erosion channels of the creeks and rivers which comprise the present drainage system. Both types of deposition occur on these claims.

Lee Oro Mina has concentrated their efforts to date on the stream deposits of gravel and benches from old erosion channels, believing that the metalurgical recovery of gold from these areas is more economically feasible.

The primary gravel deposits available on these claims is a channel deposit created by an "S" turn of the Minnehaha Creek about 3/4 of a mile above the creeks confluence with the Hassayampa River, the area covered by Pay-U-Later #1 and 2 claims, about 1/2 of the available channel area 500 yards long and 200 yards wide was chosen as the initial area for testing, as it afforded an easily developed mill site and access to water for beneficiation purposes.

The prospect was cut into 15 grid areas of approximately equal size and samples were taken by use of a backhoe from each grid ranging in size from 1½ to 10½ cubic yds. depending on the depth and physical character of the gravel encountered. Values on these samples which were processed by a standard gravity separation procedure with amalgamation of the concentrate averaged .031 oz. gold per cu yd. The sample pits were cut to bed rock where it could be reached by the hoe and cut off at maximum depth if bed rock could not be reached (about 12 ft depths). Bed rock was reached in 8 of the 15 pits at an average depth of 9 ft. The remaining 7 pits central to the gravel deposit never reached bed rock. A mineral I.P. test on magnetic black sands has indicated gravel depths in this area to be 35 feet or more. This in conjunction with a physical observation of the gravels and exposed bed rock which can be seen in the current creek bed cut indicates a basin-like structure in bed rock on the lower portion of the "S" turn deposits. This sampled area is estimated to contain 900,000 cubic yards of production gravel.

The potential for an additional 1,000,000 cubic yards exists on the upper portion of the "S" turn deposit. As of this date no sampling beyond 5 gal. bucket tests and panning of random samples has been undertaken on this section of the claims.

Deposits of the granite and clay containing gold values which cover the ridge and mesa on Bit of Hope claims 1 through 5 varies in depth from 2 to 25 feet in depth. No estimate of total yardage available or value has been calculated for this potential. Pan samples indicate that the gold in this area is coarser in size and possibly of sufficient value to justify some effort in recovery. The high clay content of the material being a major problem in beneficiation of this ore.

Sept. 1, 1933

Results of the sampling program on the R.D. Cooper lease.
Approx. 400 acres in Yavapai County.

Legal description;

Bit of Hope Claims; Nos. 1 through 6 located in section 13, township 10 N.
Range 3 W., and Pay You Later Claims Nos. 1 and 2, located in section 24,
Township 10 N., Range 3 W.

Comprising a total of 400 acres, more or less, of Federal Placer mining
claims.

	Pool:	Tr. C.	A. N. C. No.
<u>Bit of Hope</u>	(1) 1307	267-268	107540
	(2) 1308	609-610	107547
	(3) 1340	539	116708
	(4) 1340	541	116709
	(5) 1340	543	116710
	(6) 1340	545	116711
<u>Pay-u-Later</u>	(1) 1553	442	201498
	(2) 1553	448	201499

A total of fifteen sample pits have been cut across the twenty acre
channel, to evaluate values, and production potential.

Results, claim map and metallurgical recovery methods follow:

Pit #	Cu. Yds. Processed	Oz. Gold recovered/Cu. Yds. Processed
1-	1.33	.018
2-	3.55	.037
3-	10.37	.009
4-	6.66	.040
5-	6.66	.085
6-	10.37	.028
7-	6.66	.043
8-	10.37	.014
9-	8.88	.047
10-	.74	nil
11-	7.40	.010
12-	10.37	.027
13-	1.33	nil
14-	4.07	.036
15-	5.00	.430

High grade test on
bedrock not included
in results.

Total Cu. Yds. 88.70 Ave. .031

- Note:
- 1- All Cu. Yardage figures are based on measurements of the open pit and represent in-situ gravel yardage.
 - 2- Values reported are based on actual metal recovered from standard gravity separation procedures through industry accepted metallurgical processes and are not the result of representative assays from grab sample concentrates as is sometimes done.

The claims which this lease holds have additional potential for production
of significant gold values not covered in this report. As of this date
sampling is incomplete but will be pursued as production of the present
project is implemented.

Max E. Cooley
Max E. Cooley, metallurgist
and analytical chemist

T & M Recovery
Box 819
Moab, Utah
845

Andrew J. Zinkl

REGISTERED MINING ENGINEER

1602 N. CAMPBELL ST.
PRESCOTT, ARIZONA 86301
PHONE 445-5763

Lee Oro Mina, Inc.
Yarnell, AZ 85362

-2-

12/21/83

All of the foregoing is a brief summary of the project which we have discussed in detail. The estimate of producing 70 ounces per day is based on the sample values obtained by Max Cooley as a result of his sampling an estimated 900,000 cubic yards of gravel that averaged 0.031 ounces of gold per yard (approximately 9 to 10 grams per yard).

The 70 ounces will result from the washing of the 3,000 cubic yards of gravel with an estimated recovery of approximately 80% to 85%.

The capital investment needed to accomplish your objective production rate is detailed below:

<u>Item</u>	<u>Cost</u>
1. Trade in present 4' x 10' screening plant for 5' x 14' screening plant. This includes larger feed circuit and larger stacking conveyor.....	\$50,000.00
2. Sluice boxes, increase from 6 units to 10 units with boil boxes, etc.....	\$10,000.00
3. Pumps, replace 2 - 6" x 6" with 2 - 8" x 10".....	\$50,000.00
4. Generator - replace your present 250 KW capacity with 500 KW plant.....	\$50,000.00
5. Ancillary facilities, camp, lab, larger full storage, pickup, office equipment, etc.....	\$25,000.00
6. Supplies, Diesel fuel, oils, spare parts, etc....	\$15,000.00
7. *Operating capital for four weeks.....	\$50,000.00
Sub-Total	\$250,000.00
Contingency.....	10,000.00
TOTAL	\$260,000.00

Removal of your present equipment and installation of your larger new circuit will probably be accomplished in 4 to 5 weeks.

Yours very truly,

Andrew J. Zinkl

Andrew J. Zinkl, Registered Mining Engineer:

*Labor and earth moving contractor



Andrew J. Zinkl
REGISTERED MINING ENGINEER

RECEIVED JAN 4 1984

1602 N. CAMPBELL ST.
PRESCOTT, ARIZONA 86301
PHONE 445-5763

December 21, 1983

Lee Oro Mina, Inc.
P. O. Box 411
Yarnell, AZ 85362

Gentlemen,

In reply to your request for an estimate of the financing needed to upgrade your production to 3,000 cubic yards of gravel per day, the following is submitted.

It is my understanding that the excavation and transportation of the gravel to your concentrating plant will be contracted, and that my estimate is not to include the cost of earth excavating and earth moving equipment.

Further, your plan and my estimate is to include the value of trading in the present equipment you have which is too small to achieve your goal of producing approximately 70 ounces of gold per day.

To increase your production rate to the 3,000 cubic yards per 24 hours, it will be necessary to enlarge your screening capacity and greatly increase your water flow which in turn will require an increase in your generating capacity, fuel storage and other ancillary equipment and facilities.

Starting at the front of your circuit, it will be necessary to replace your primary storage bin and belt feeder with a pan feeder and open hopper with a 4" grizzly into which a truck can dump or a tractor and/or front end loader can feed.

A larger coarse feed conveyor will be needed to feed the screening plant. Your 4' x 10' double deck screen should be replaced with a 5' x 14' or 5' x 16' double deck screen followed by a 100 foot long stacking conveyor for the rejected rock and gravel.

This arrangement will supply the minus 1/4" material to your sluice boxes. Your present sluice box arrangement of 6 - 10" x 20' boxes should be increased to 10 sluice boxes to handle the larger volume of fines, with the necessary boil boxes, riffles and carpet.

The real bottleneck in your present circuit is your water volume and the 2 - 6" x 6" pumps in your circuit must be replaced by 8" x 10" pumps to get your water volume up to at least 5,000 gallons per minute. These pumps will require additional horsepower which will require larger generating capacity.

Additional full storage capacity will be needed as well as enlargement of your concentrate cleanup facility, lab equipment and all the other ancillary facilities.

MAX E. COOLEY

Age 51, married with five children ages 17-27.

Work History:

1979-present

President C&E Metals Inc.
Trading precious metals, rare coins, and assays of
precious metals and ores.

1978-present

Owner/Manager of T.M. Recovery
Analytical Laboratory Consultant for Mining Industry.

1974-1978

Mill Superintendent for Keystone Wallace Resources
Copper Mill, Lisbon Valley, Utah.

1971-1974

Chief Chemist for Keystone Wallace Resources,
Colorado and Moab, Utah.

1968-1971

Analytical Chemist for Texas Gulf Inc., Moab, Utah.
Potash Mill.

1963-1968

Insurance Agent for The Prudential Insurance Co.,
Salt Lake City, Utah.

1957-1963

Owner/Operator of Canyonlands Distributing Wholesale Foods.

1954-1957

Carpenter for various building contractors.

1951-1954

U.S. Navy U.D.T. Service. Demolition Specialist.
Korea and Japan

Education

Attended Utah State University for Freshman year.
Graduate: Grand County High School.

Completed I.C.S. Courses:

1. Analytical Chemistry 1968
2. Physical Chemistry 1969
3. Metallurgical Science Engineering 1969-1970.