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Arizona Department of Mines and Mineral Resources Mining Collection

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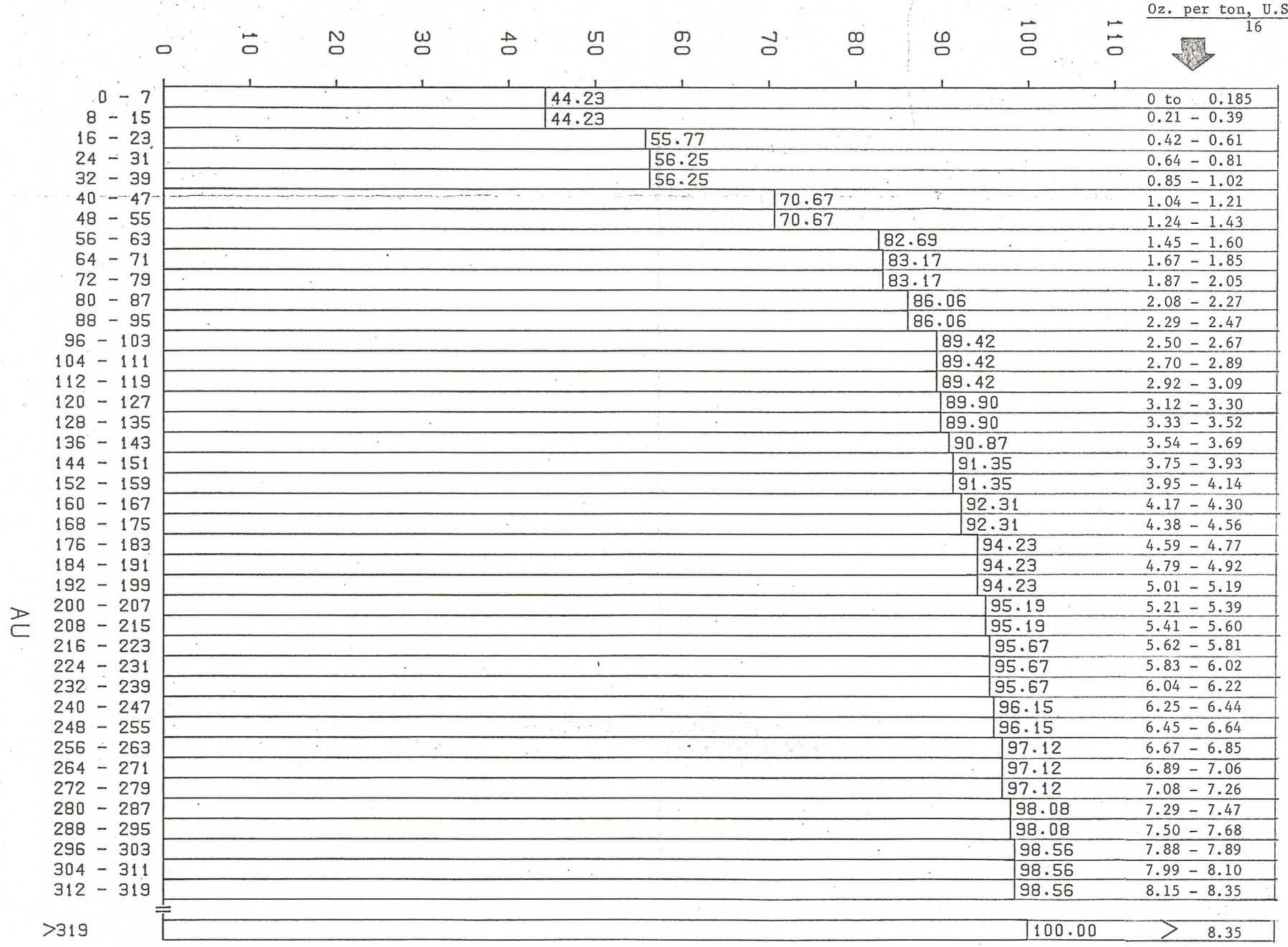
Hagerty Research & Development Co., Inc.
P. O. Box 2486
Prescott, Arizona 86302

FIGURE 6: HAGERTY CLAIMS, AZ. SOIL GEOCHEMISTRY [IN PPM(X10-3)]

CONVERSION OF PARTS PER MILLION TO TROY OUNCES PER TON. FACTORS:

$$\frac{\text{Parts per million}}{34.28} = \text{Oz./ton U.S.}$$

$$\frac{\text{Oz. per ton, U.S.} \times 14.28}{16} = \text{Troy Oz./ton}$$



ESTIMATE OF MINERAL VALUE CONTAINED IN THE MINERAL RESERVE BASED ON ALL METALS HAVING COMMERCIAL VALUE.

THE ESTIMATE IS SUPPORTED BY SURVEYS CONDUCTED BY PROFESSIONAL GEOLOGISTS IN 1965, 1977, 1978, 1982 AND 1983. THE DATA COLLECTED IS FURTHER AUGMENTED BY THE TEXASGULF EXPLORATION ACTIVITIES AND REPORTS BY WHITE, BROWN, AND KANBERGS, TEXASGULF GEOLOGISTS.

MATERIAL GENERATED HEREIN IS BASED ON THE TEXASGULF REPORT "GEOLOGY AND GEOCHEMISTRY OF THE HAGERTY CLAIMS AND VACINITY, OF JANUARY, 1983."

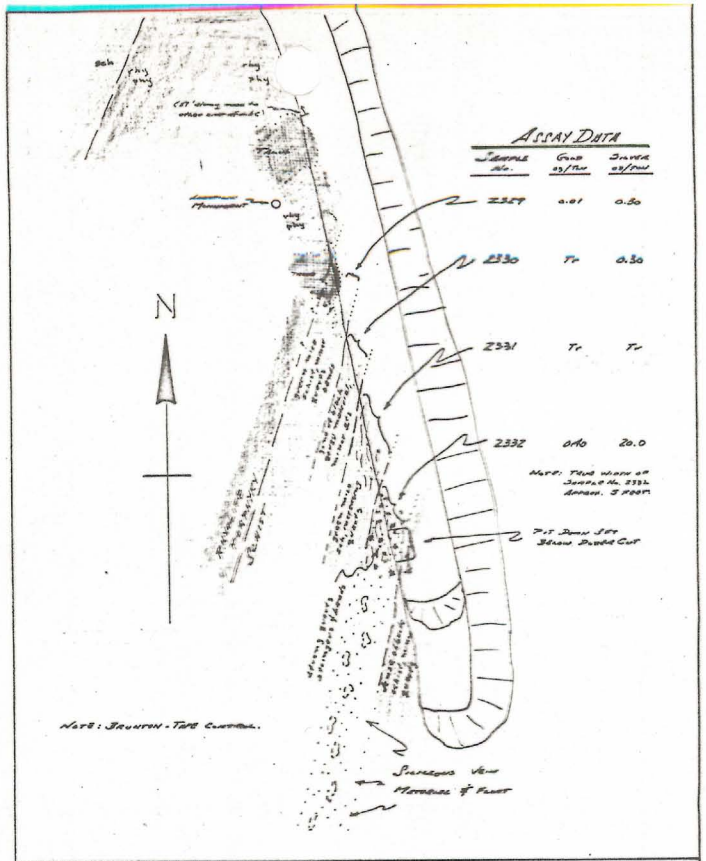
MINERAL RESERVES

SHEET 1. of 2.

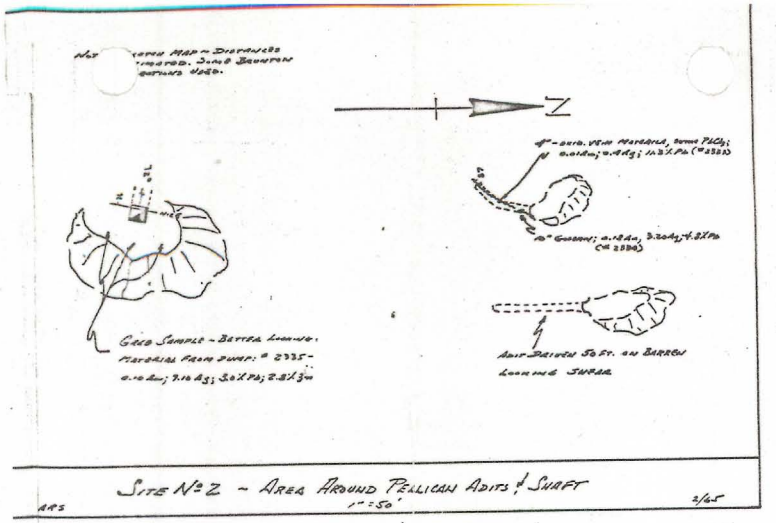
SEPTEMBER 30, 1987.

GOLD

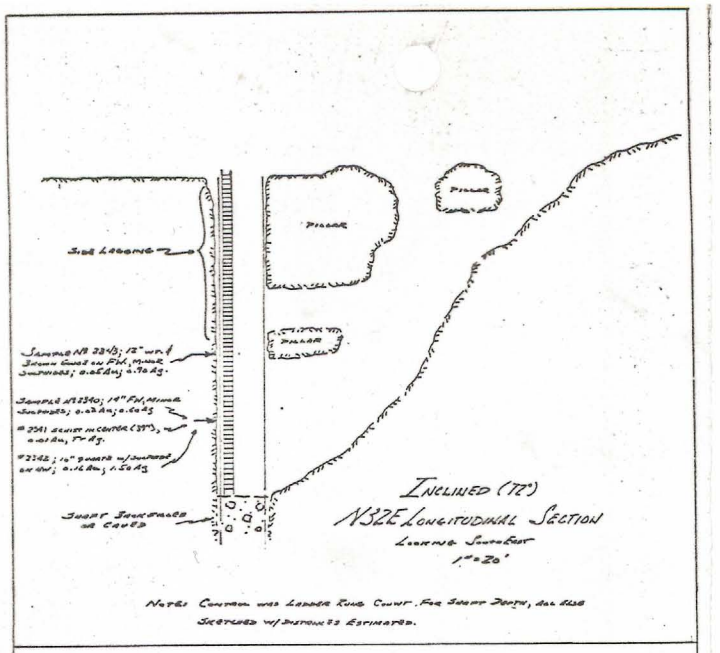
VALUES IN TROY OZ/TON

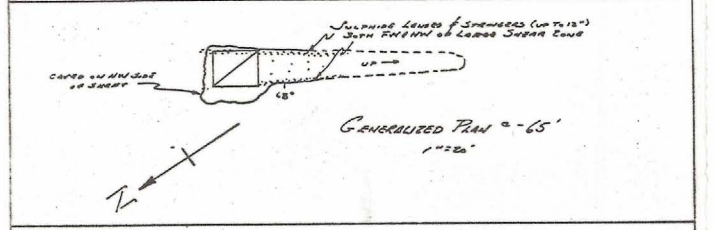


Site 1
Bulldozer Cut on Pellican Vein
A.R.S. 1"=20' 2/65

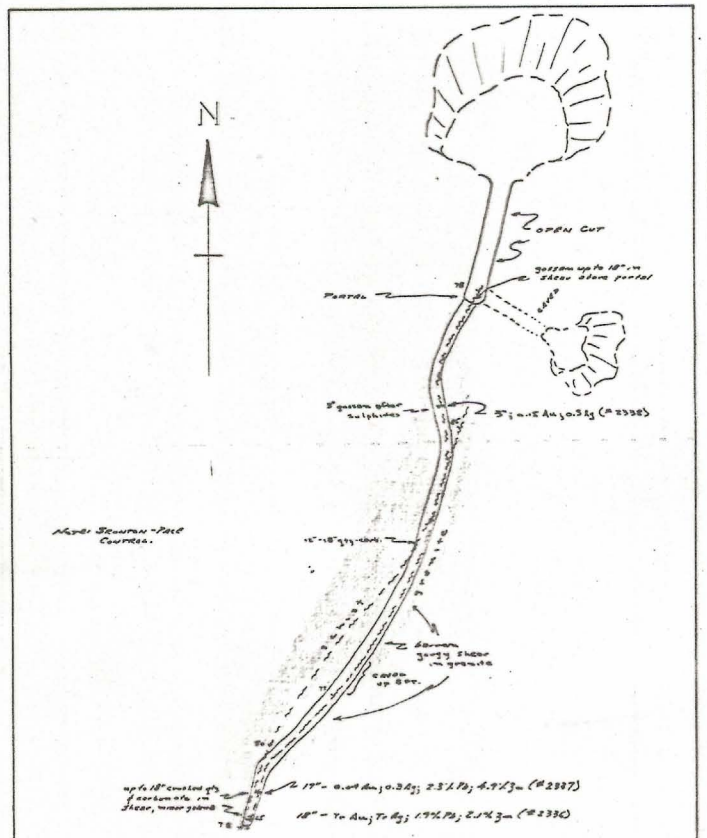


Site No. 2 - Area Around Pellican Adits & Shaft
1"=50'
A.R.S. 2/65

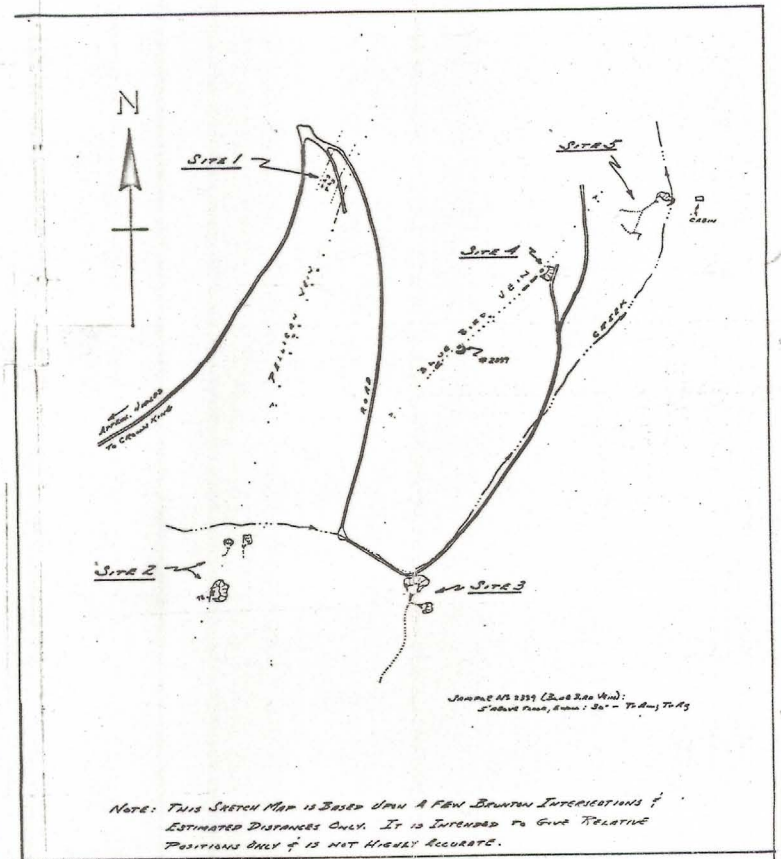




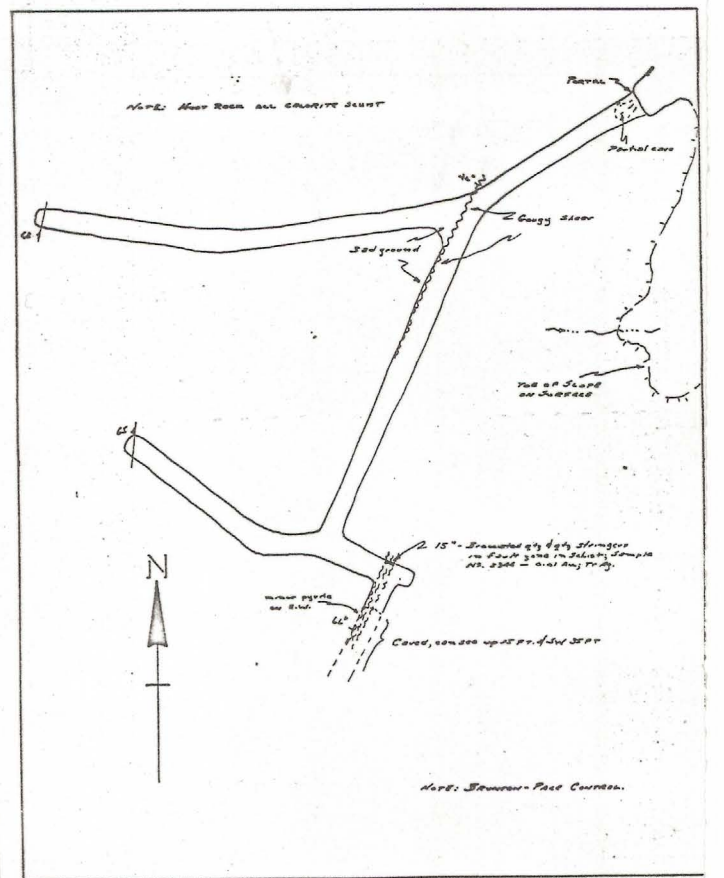
Site 4
Plan & Longitudinal Section - Blue Bird Shaft
A.R.S. Scales as Shown 3/65



Site 3
Adit Driven on Unknown Vein
A.R.S. 1"=40' 2/65



General Index Sketch Map
Area of Blue Bird & Pellican Veins
A.R. Still Approx. 1"=300' Feb. 1965



Still & Still - Prescott, Ariz.

INDEX & DETAIL MAPS
PELLICAN & BLUE BIRD (HAGERTY) PROPERTIES

Crown King Mining District
Yavapai County, Ariz.

Scales: As Shown
A.R. Still Feb. 1965

Site 5
Adit & Workings Near Cabin
A.R.S. 1"=20' 2/65

TEXASGULF REPORT, GEOLOGY AND GEOCHEMISTRY OF THE HAGERTY PROPERTIES. TWO OF THE FOUR ANOMALIES ARE SHOWN, THE BAT AND DOUGLAS FIR MINES. THE OTHER TWO ANOMALIES LIE TO THE SOUTH, THE GOLD KING AND THE PELICAN MINES.

GEOCHEMICAL SURVEY

NUMBER OF SAMPLES = 208
MINIMUM VALUE = 4
MAXIMUM VALUE = 1000
MEAN = 49.5096
STD. DEV. = 92.589
VARIANCE = 8572.7021
MEDIAN = 20.0000
MODE = 4.0000
SKEWNESS = 0.9561
KURTOSIS = 52.3293
CLASS INTERVAL = 8
NUMBER OF CLASSES = 40

U.S. Oz./ton	Troy Oz./ton
0.116	0.104
29.17	26.03
11.44	1.31

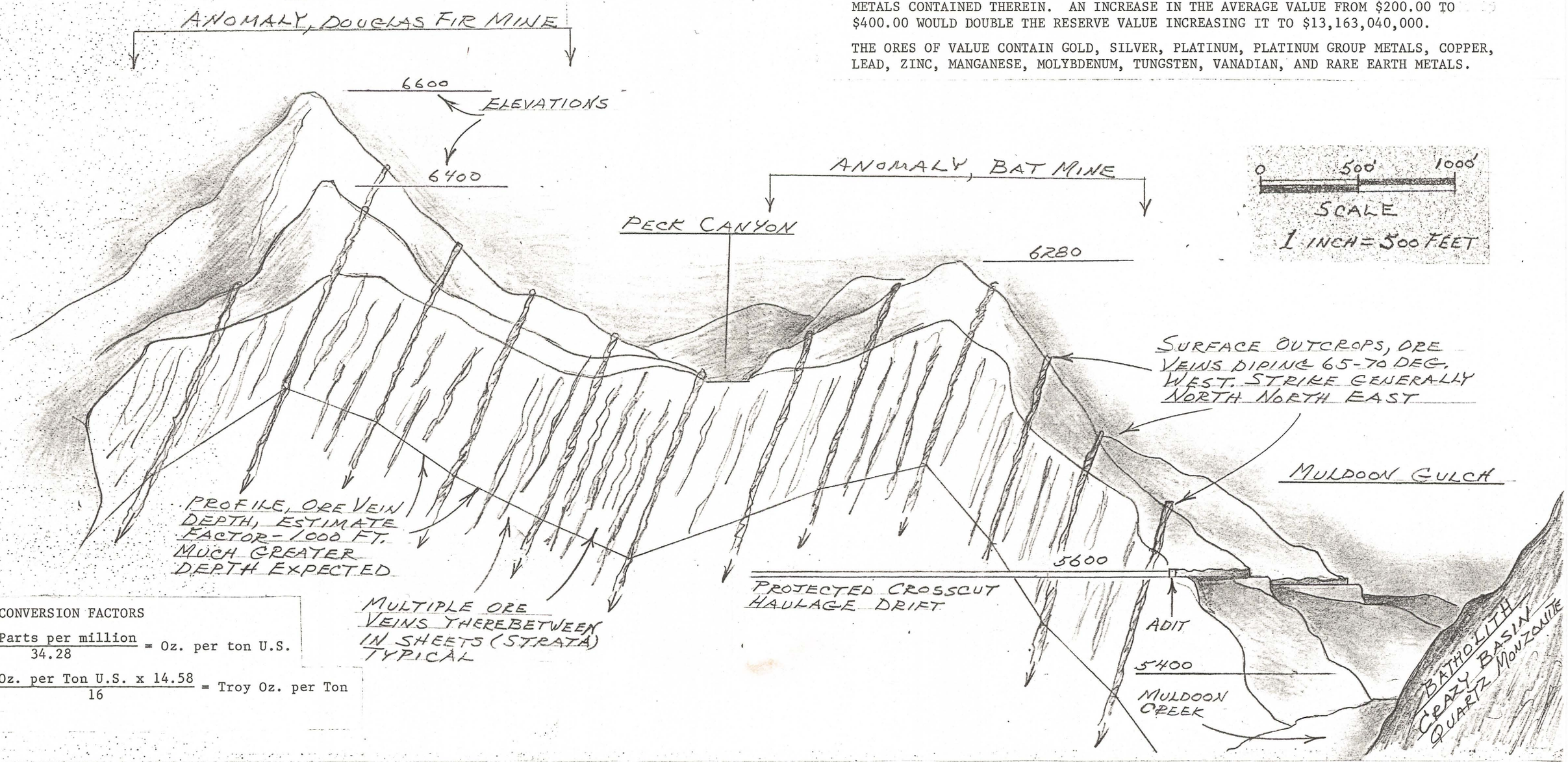
MINERAL RESERVES
SHEET NO. 2.
SEPTEMBER 30, 1987.

HAGERTY RESEARCH & DEVELOPMENT CO., INC. METHOD ESTIMATING THE MINERAL RESERVES IN SOME 80 LODE MINING CLAIMS WITH VALUES BASED ON ALL METALS CONTAINED IN THE ORES, BOTH PRECIOUS AND BASE METALS AT $200.00 PER TON.

Lateral length of ore veins placed end to end	52,800 feet (10 miles)
Average width of ore veins	6 feet
Expected depth of commercial grade ores	1000 feet
Average weight of typical ores in place	277 Lbs. per cubic foot
Displacement of ores 52,800 x 6 x 1000	316,800,000 cubic feet
Weight of ores, Lbs. 316,800,000 x 277	87,753,600,000 Lbs.
Weight of ores, Tons	43,876,800 Tons
Safety Factor at 25%, 43,876,800 x .25	10,969,200
Mineral Reserves, Tons 43,876,800 less 10,969,200	32,907,600 Tons
Average value ores, all extractable metals	$200.00 per Ton
Value of the Mineral Reserves 32,907,600 x $200.00	$6,581,520,000

THE VALUE OF THE RESERVES WILL VARY IN ACCORD WITH THE MARKET PRICES OF THE METALS CONTAINED THEREIN. AN INCREASE IN THE AVERAGE VALUE FROM $200.00 TO $400.00 WOULD DOUBLE THE RESERVE VALUE INCREASING IT TO $13,163,040,000.

THE ORES OF VALUE CONTAIN GOLD, SILVER, PLATINUM, PLATINUM GROUP METALS, COPPER, LEAD, ZINC, MANGANESE, MOLYBDENUM, TUNGSTEN, VANADIAN, AND RARE EARTH METALS.



CONVERSION FACTORS

$$\frac{\text{Parts per million}}{34.28} = \text{Oz. per ton U.S.}$$

$$\frac{\text{Oz. per Ton U.S.} \times 14.58}{16} = \text{Troy Oz. per Ton}$$

DEVELOPMENT AND PHASING, CONSOLIDATED MINES
HAGERTY RESEARCH & DEVELOPMENT CO., INC.

I ACCESS ROAD CONSTRUCTION AND LEVELING OF GROUND FOR FACILITY BUILDINGS.

1. Widen and improve road from the Upper Cabin to the Pelican Shaft. thense to the Foundry Smelter Location.
2. Clear, and level ground for Foundry Smelter Unit Building.
3. Construct access road to Wharehouse location and level ground for building.
4. Construct access road spur to Forest Service Heliport.
5. Level Heliport for concrete pad.
6. Continue access road construction to Upper Noname Mine adit. Continue road to existing access road near new Blue Bird Adit.
7. Return to Upper Noname Mine, extend working area, and open up adit. (Before this work stockpile of ores are to be removed as road is being extended to the existing access road above.)
8. Construct access road across existing road following the old Burro Trail to the Blue Bird Moly Adit.
9. Construct level areas at this location for the construction of change house and explosive storage.
10. Construct access road on Old Burro Trail to junction of the existing road into War Eagle Gulch. Improve existing road from this point to bottom of War Eagle Gulch.
11. Improve road grade on existing road from the Upper Cabin to Dozer Cut, thense to New Blue Bird adit location.
14. Perform other work as required at Blue Bird adit where underground mining is to start. Change House and Explosive Storage are to be located.

II FACILITIES

1. Lay concrete slab and construct Foundry Smelter Unit Building.
2. Lay concrete slab at Forest Service Heliport.
3. Lay concrete slab and construct Chemical Reduction Unit Building.
4. Lay concrete slab, procure and install Water Catchment Tank, Chemical Reduction Building and at the Foundry Smelter Unit Building.
5. Lay concrete and construct Change House and Explosive Storage.
6. Construct handling equipment, masonary, and adit portal, New Blue Bird Adit.
7. Construct Wharehouse Unit Building.

III EQUIPMENT PROCUREMENT

1. Combination Crusher and Mill.
2. Gas Fired Melting Furnace.
3. Tools, Equipment, and Personal Clothing, melting and chemical operations.
4. Vehicles.
5. Vehicle, Emergency, and Fire Suppression.
6. Chemical and foundry processing materials. Other materials, hardware, and other items for all operations. (Wharehouse Storage or immediate use.)

IV WATER SYSTEMS, PUMPS, SUPPLY SOURCE, PIPE AND INSTALLATIONS, ALL OPERATIONS.

V START OF UNDERGROUND MINING AT NEW ADIT ON BLUE BIRD VEIN.

VI ACCESS ROAD THROUGH MULDOON GULCH TO COUNTY HIGHWAY.

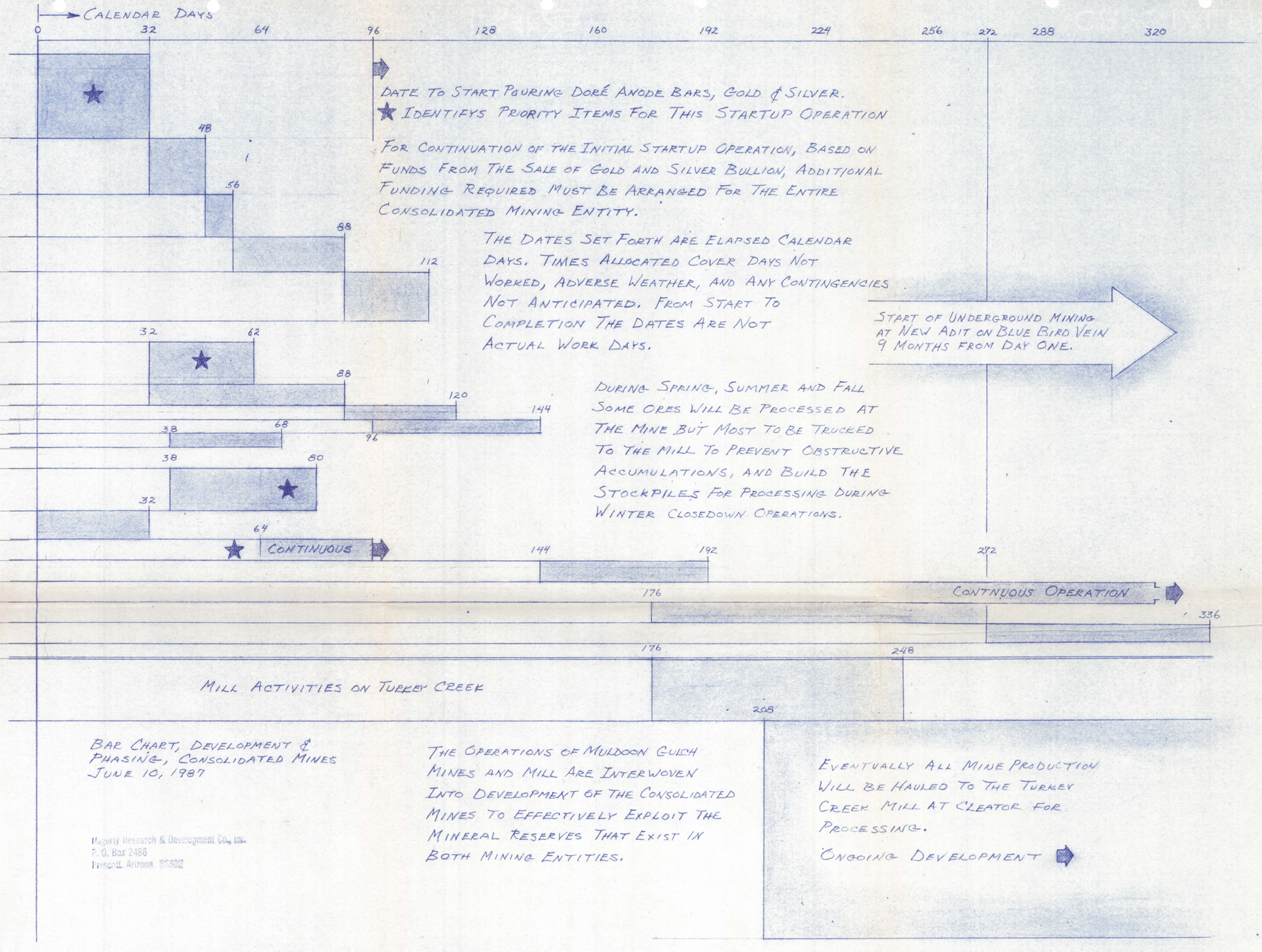
VII ADDITIONAL ROAD CONSTRUCTION TO PROPERTIES IN PECK CANYON ENDING AT THE PECK MINE PROPERTY.

VIII MILL SITE ON TURKEY CREEK.

1. Level ground lay concrete slab for incoming ores and concentrates.
2. Construct buildings, processing equipment, holding and supply tanks, water systems. Drill well for water supply.
3. Arrange for Environmental Technology's Hazardous Waste Processor equipment procurement and installation to recover metals from waste water.
4. Duplicate crushing, milling, and smelting operations as practiced at the Consolidated Mines, including procurement of like machinery and equipment.
5. Arrange for on site gas tank, installations, and supply source.
6. Arrange for Electric Line Service, Arizona Public Service Company.
7. Procure and install water catchment tanks and systems.
8. Improve road from Cleator and access road to Mill Site.
9. Layout facility to assay and conduct analysis of ores and concentrates.
10. Procure necessary equipment to conduct the above operations.
11. Wharehouse Facility for storage, shipping and receiving.

SECURITY: Enclose area with installation of chain link fence and secure gates. Provide office and vehicle for security personnel. Provide telephone and communication systems throughout.

12. Provide Heliport to service the operations.
13. Provide facilities to fabricate equipment such as ore carts to be used in the mines and processing facilities.
14. Provide change house for personnel including First Aid application



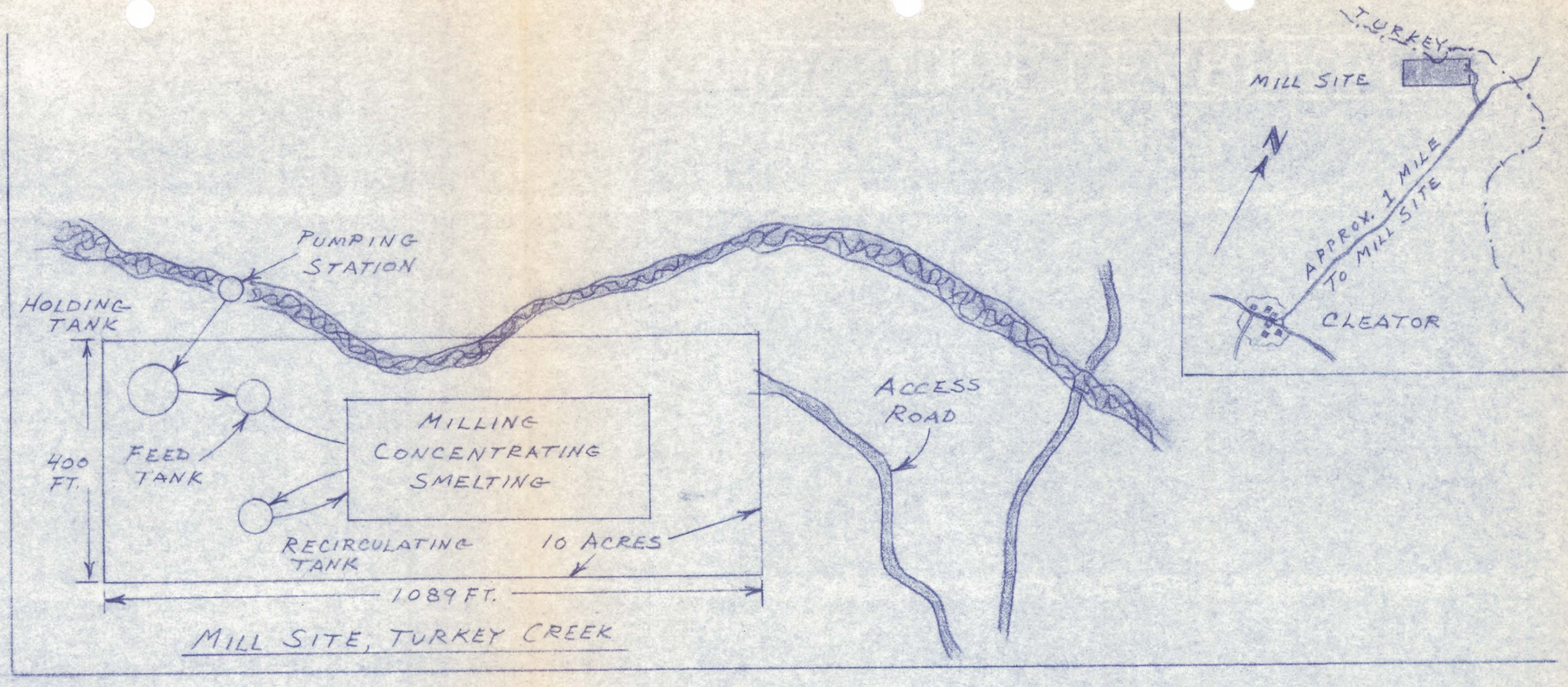
BAR CHART, DEVELOPMENT & PHASING, CONSOLIDATED MINES
JUNE 10, 1987

THE OPERATIONS OF MULDOON GULCH MINES AND MILL ARE INTERWOVEN INTO DEVELOPMENT OF THE CONSOLIDATED MINES TO EFFECTIVELY EXPLOIT THE MINERAL RESERVES THAT EXIST IN BOTH MINING ENTITIES.

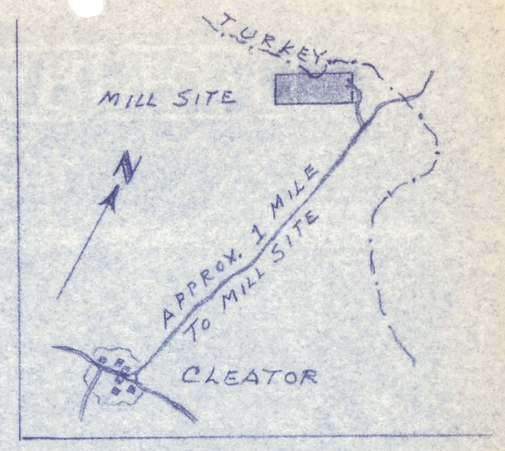
Hagerty Research & Development Co., Inc.
P. O. Box 2486
Prescott, Arizona 86302

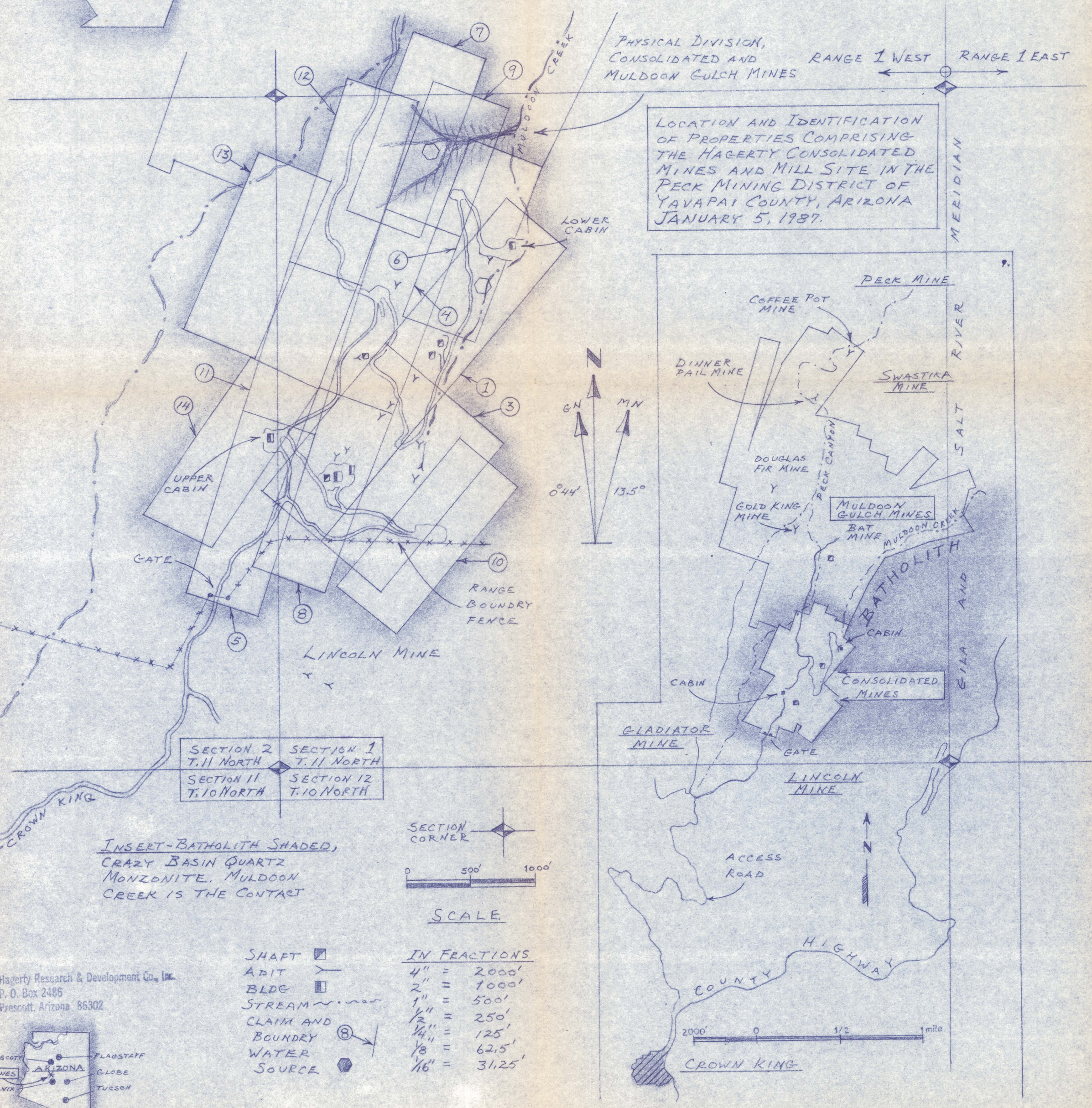
CLAIM INDEX FOR CONSOLIDATED MINES

1 QUEEN MOLLY No. 1.
2 QUEEN MOLLY No. 2.
3 QUEEN MOLLY No. 3.
4 QUEEN MOLLY No. 4.
5 QUEEN MOLLY No. 5.
6 QUEEN MOLLY No. 6.
7 QUEEN MOLLY No. 7.
8 PELICAN STRIKE No. 1
9 PELICAN STRIKE No. 3
10 BLUE BIRD EAST
11 JUNIPER HEIGHTS
12 DOUBLE DINNER
13 BOX ELDER
14 OAK



MILL SITE, TURKEY CREEK





LOCATION AND IDENTIFICATION OF PROPERTIES COMPRISING THE HAGERTY CONSOLIDATED MINES AND MILL SITE IN THE PECK MINING DISTRICT OF YAVAPAI COUNTY, ARIZONA JANUARY 5, 1987.

INSERT-BATHOLITH SHADED, CRAZY BASIN QUARTZ MONZONITE. MULDOON CREEK IS THE CONTACT

SECTION CORNER

0 500' 1000'

SCALE

SHAFT
ADIT
BLDG
STREAM
CLAIM AND BOUNDRY
WATER SOURCE

IN FRACTIONS

4"	=	2000'
2"	=	1000'
1"	=	500'
1/2"	=	250'
1/4"	=	125'
1/8	=	62.5'
1/16"	=	31.25'

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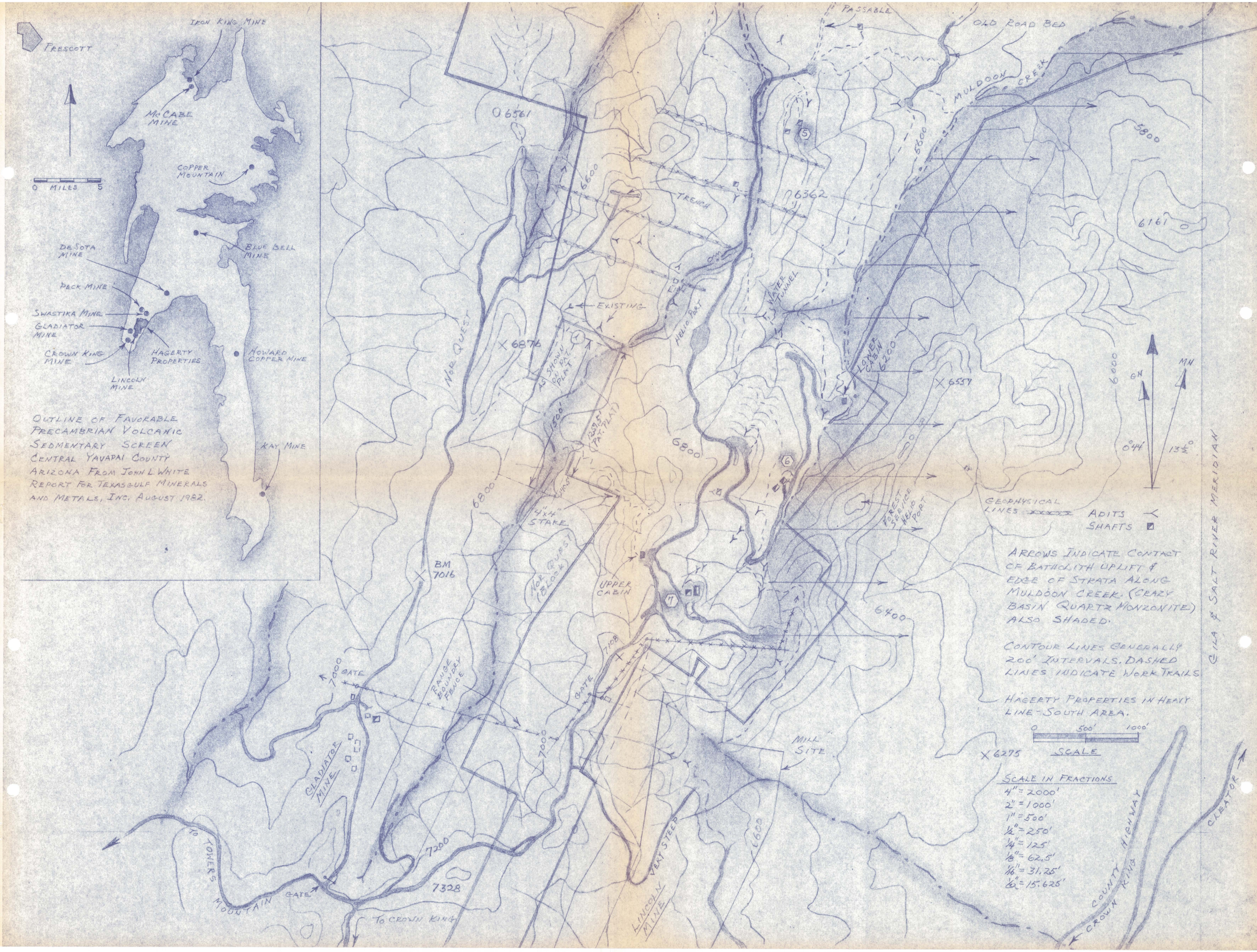
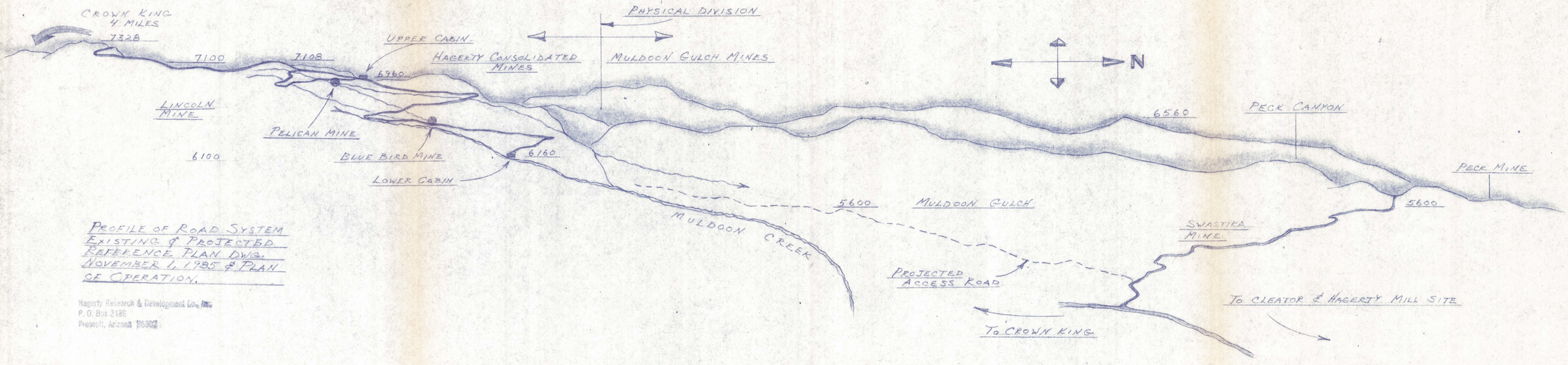
Prescott, Arizona 86302

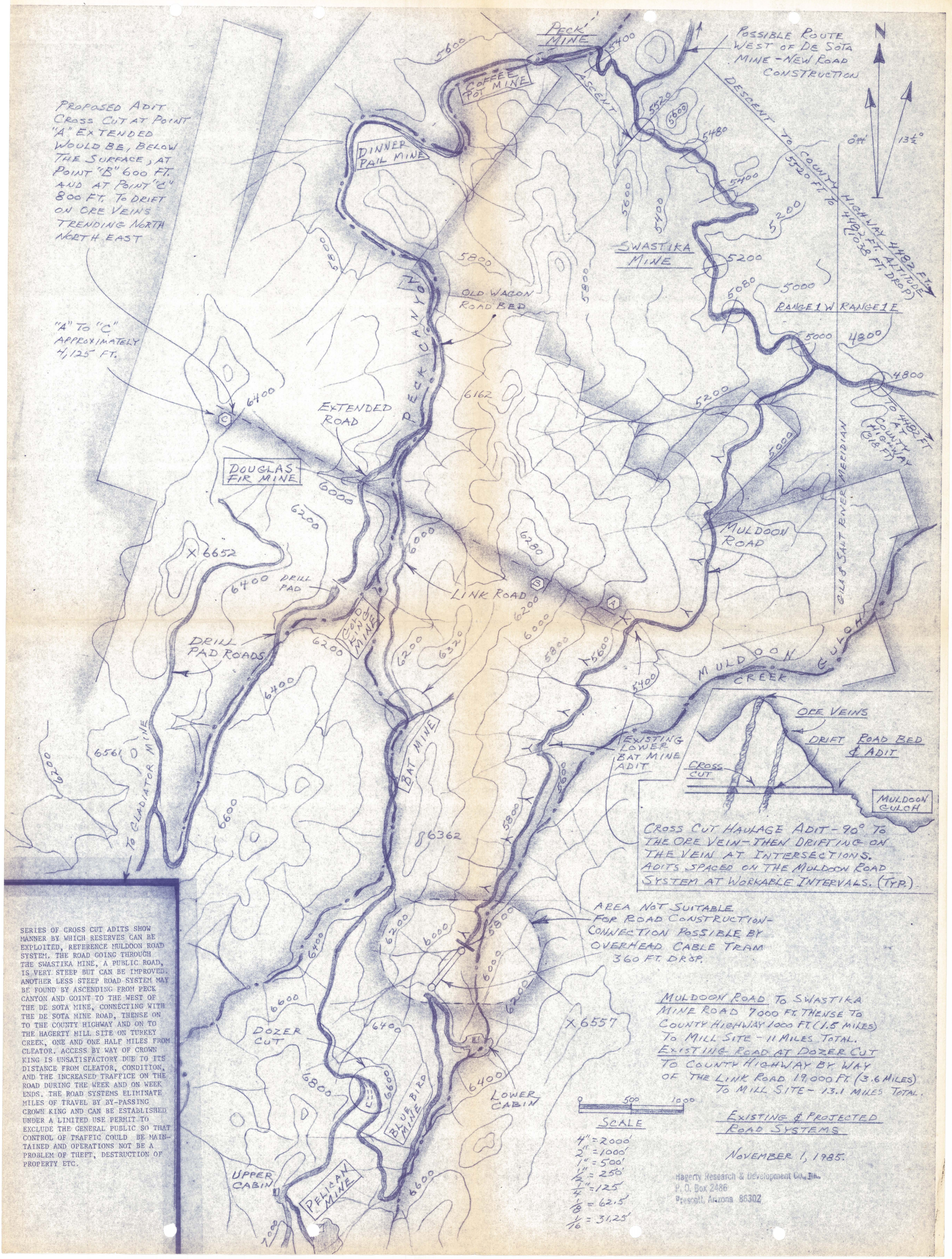

PRESCOTT
IRON KING MINE
McCABE MINE
COPPER MOUNTAIN
0 MILES 5
BLUE BELL MINE
DE SOTA MINE
PECK MINE
SWASTIKA MINE
GLADIATOR MINE
CROWN KING MINE
HAGERTY PROPERTIES
HOWARD COPPER MINE
LINCOLN MINE
KAY MINE
OUTLINE OF FAVORABLE PRECAMBRIAN VOLCANIC SEDIMENTARY SCREEN CENTRAL YAVAPAI COUNTY ARIZONA FROM JOHN L. WHITE REPORT FOR TEXASGULF MINERALS AND METALS, INC. AUGUST 1982.
PASSABLE
OLD ROAD BED
MULDOON CREEK
5800
6161
6362
6561
6600
TRENCH
EXISTING
HELIO PORT
WATER TUNNEL
NOR QUEST
X 6876
AS SHOWN ON PAT. PLAT
1500'
RANGE (PAT. PLAT)
6800
LOWER CABIN 6200
X 6557
6000
GN
MN
0°44'
13½°
GEOPHYSICAL LINES
ADITS
SHAFTS
ARROWS INDICATE CONTACT OF BATHOLITH UPLIFT & EDGE OF STRATA ALONG MULDOON CREEK. (CRAZY BASIN QUARTZ MONZONITE) ALSO SHADED.
CONTOUR LINES GENERALLY 200' INTERVALS. DASHED LINES INDICATE WORK TRAILS
HAGERTY PROPERTIES IN HEAVY LINE - SOUTH AREA.
0 500' 1000'
SCALE
X 6275
SCALE IN FRACTIONS
4" = 2000'
2" = 1000'
1" = 500'
½" = 250'
¼" = 125'
⅛" = 62.5'
1/16" = 31.25'
1/32" = 15.625'
4"x4" STAKE
BM 7016
NOR QUEST (18 Lode)
UPPER CABIN
6400
7108
GATE
7000
RANGE BOUNDARY FENCE
MILL SITE
GLADIATOR MINE
7200
7328
TO TOWERS MOUNTAIN
TO CROWN KING
LINCOLN MINE
VERT STEEP
COUNTY HIGHWAY
CROWN KING
GLADIATOR
GILA & SALT RIVER MERIDIAN

NOTES



PROFILE OF ROAD SYSTEM
EXISTING & PROJECTED
REFERENCE PLAN DWG.
NOVEMBER 1, 1985 & PLAN
OF OPERATION.

Hagerty Research & Development Co., Inc.
P. O. Box 2186
Prescott, Arizona 86302



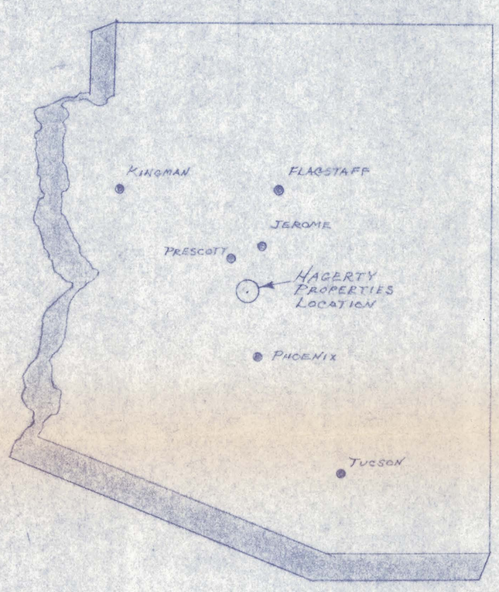
SERIES OF CROSS CUT ADITS SHOW MANNER BY WHICH RESERVES CAN BE EXPLOITED, REFERENCE MULDOON ROAD SYSTEM. THE ROAD GOING THROUGH THE SWASTIKA MINE, A PUBLIC ROAD, IS VERY STEEP BUT CAN BE IMPROVED. ANOTHER LESS STEEP ROAD SYSTEM MAY BE FOUND BY ASCENDING FROM PECK CANYON AND GOINT TO THE WEST OF THE DE SOTA MINE, CONNECTING WITH THE DE SOTA MINE ROAD, THENSE ON TO THE COUNTY HIGHWAY AND ON TO THE HAGERTY MILL SITE ON TURKEY CREEK, ONE AND ONE HALF MILES FROM CLEATOR. ACCESS BY WAY OF CROWN KING IS UNSATISFACTORY DUE TO ITS DISTANCE FROM CLEATOR, CONDITION, AND THE INCREASED TRAFFICE ON THE ROAD DURING THE WEEK AND ON WEEK ENDS. THE ROAD SYSTEMS ELIMINATE MILES OF TRAVEL BY BY-PASSING CROWN KING AND CAN BE ESTABLISHED UNDER A LIMITED USE PERMIT TO EXCLUDE THE GENERAL PUBLIC SO THAT CONTROL OF TRAFFIC COULD BE MAINTAINED AND OPERATIONS NOT BE A PROBLEM OF THEFT, DESTRUCTION OF PROPERTY ETC.

HAGERTY RESEARCH & DEVELOPMENT CO., INC.
PECK MINING DISTRICT, YAVAPAI COUNTY, ARIZONA. TWO SHEETS, NORTHERN & SOUTHERN SECTIONS: FOR EXPLORATION & DEVELOPMENT.

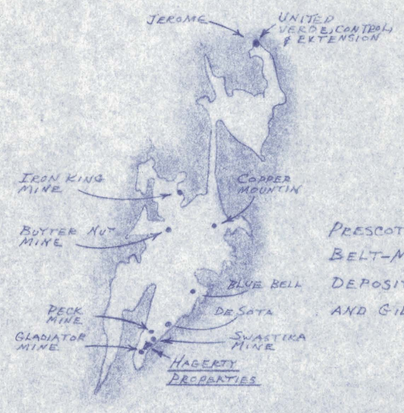
MINES:

COFFEE POT	1	BAT MINE	5
DINNER PAIL	2	BLUE BIRD	6
DOUGLAS FIR	3	PELICAN	7
GOLD KING	4		

LEGEND & SCALE ON SOUTHERN SECTION



0 25 50 75 150
SCALE IN MILES



0 10 20 30
KILOMETERS

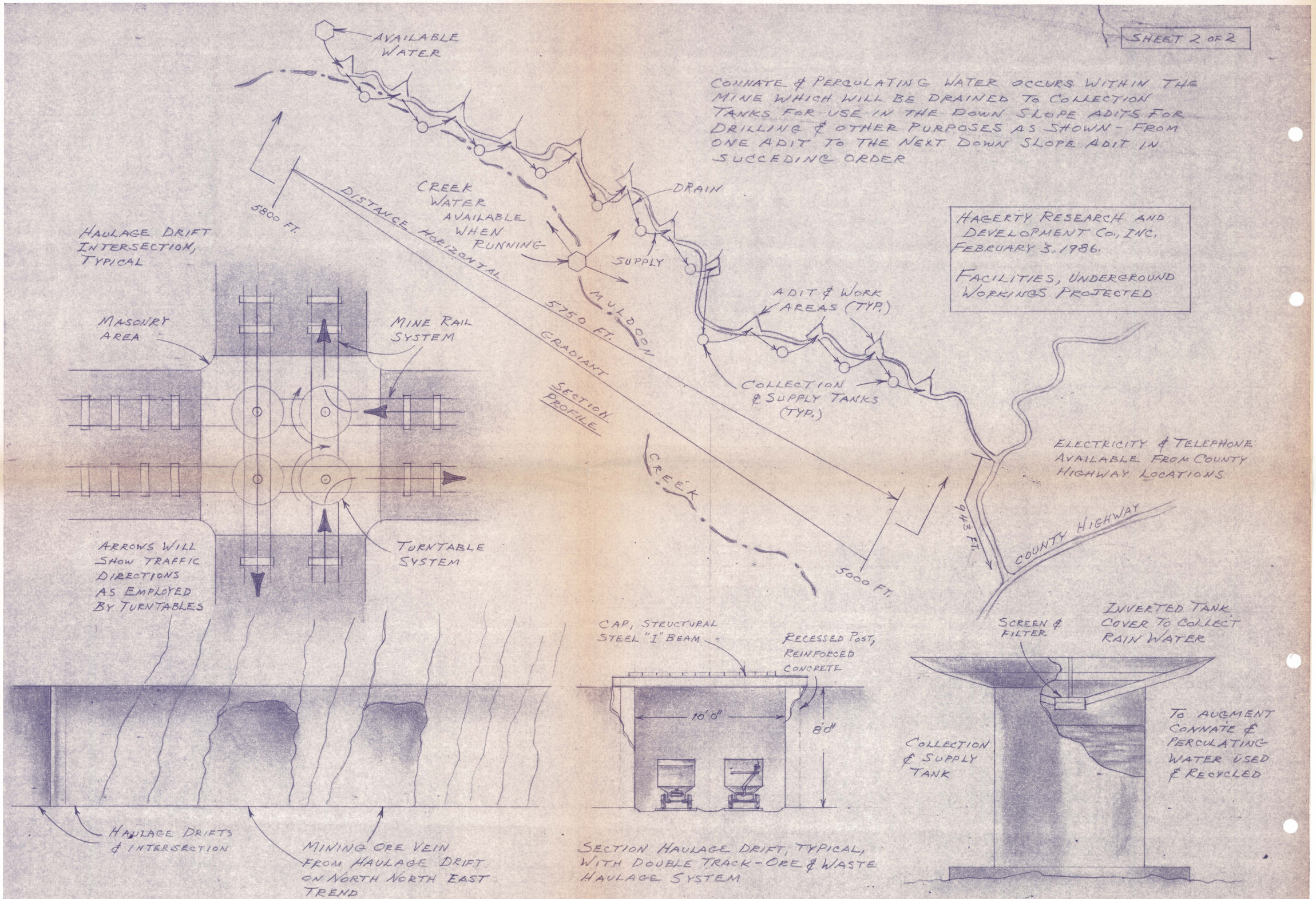
PRESCOTT-JEROME BELT-MASSIVE SULPHIDE DEPOSITS FROM ANDERSON AND GILBERT, 1979.

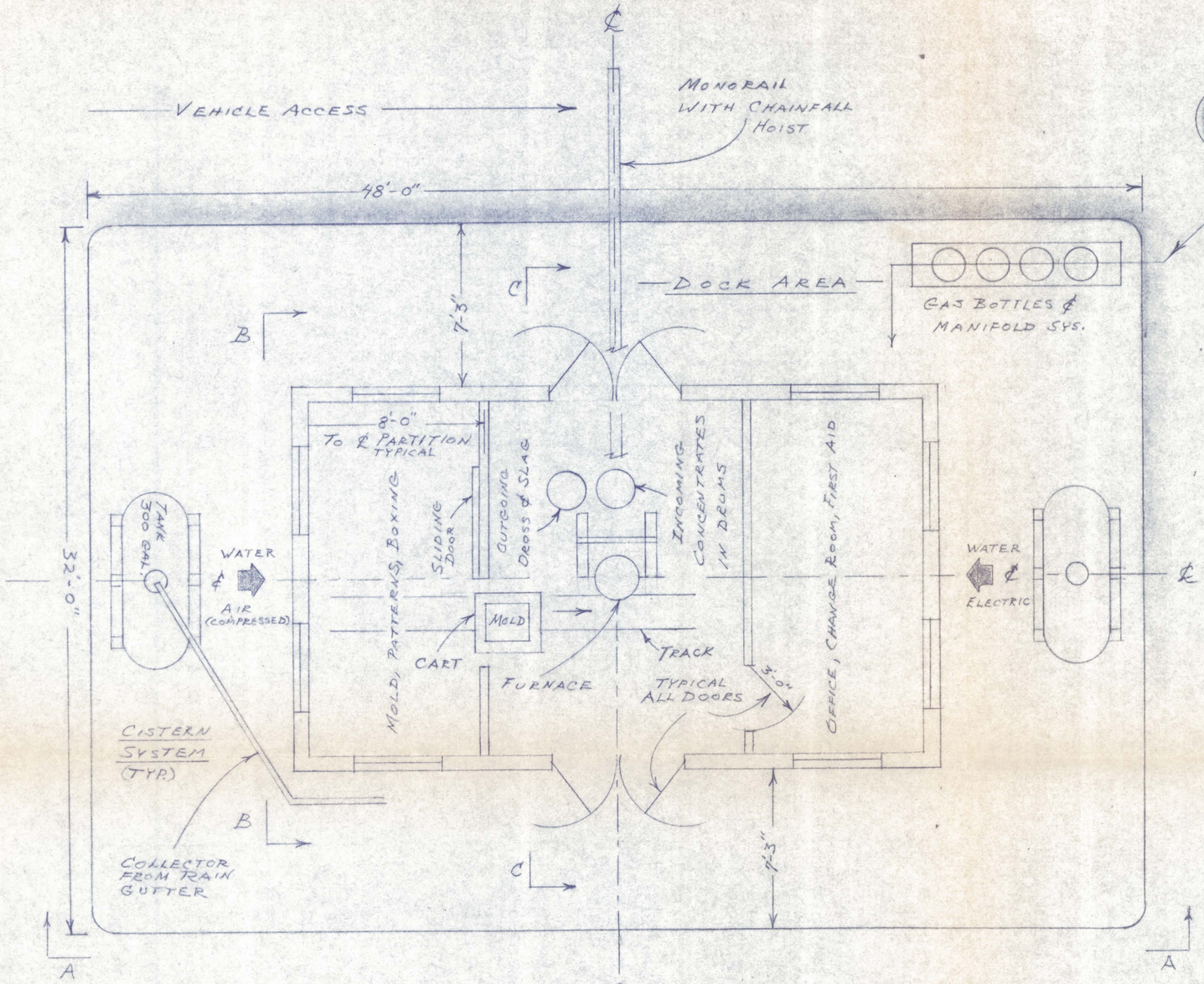
SHEET 2 OF 2

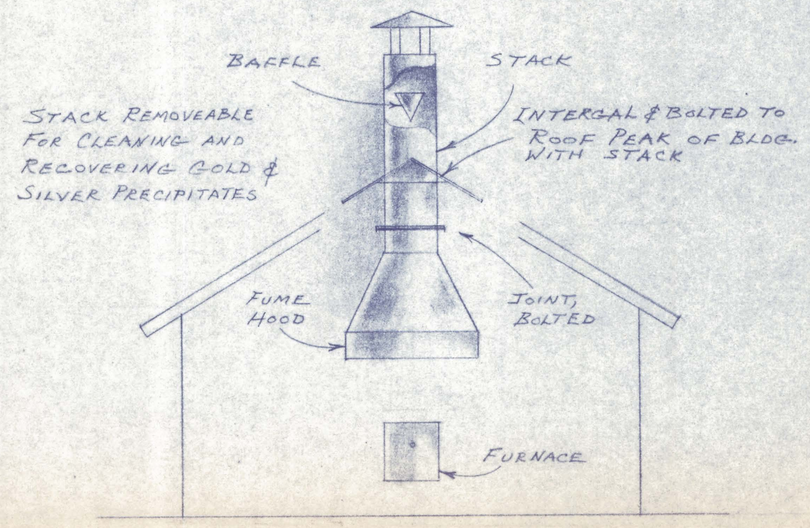
CONNATE & PERCULATING WATER OCCURS WITHIN THE MINE WHICH WILL BE DRAINED TO COLLECTION TANKS FOR USE IN THE DOWN SLOPE ADITS FOR DRILLING & OTHER PURPOSES AS SHOWN - FROM ONE ADIT TO THE NEXT DOWN SLOPE ADIT IN SUCCEDING ORDER

HAGERTY RESEARCH AND DEVELOPMENT CO., INC.
FEBRUARY 3, 1986.

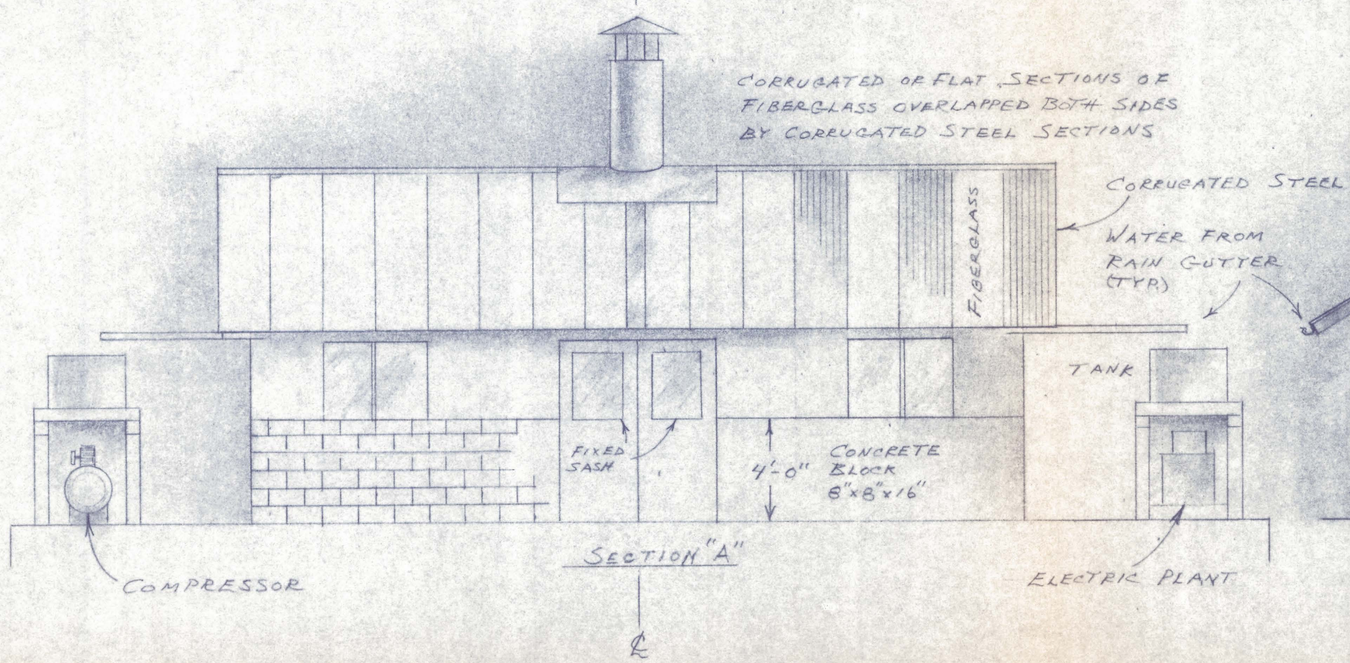
FACILITIES, UNDERGROUND WORKINGS PROJECTED



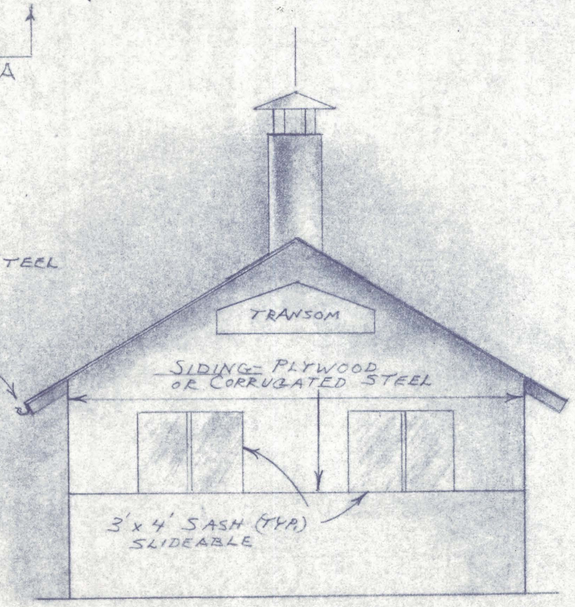




SECTION "C"



SECTION "A"



SECTION "B"

FOUNDRY SMELTER UNIT FOR COLD-SILVER DORÉ ANODE BARS

SCALE - 1/4 INCH = 1 FOOT

APRIL 6, 1987

UNIT DUPLICATED AS REQUIRED TO INCREASE PRODUCTION CAPACITY

FACILITY LAYOUT & METHODS.

Hagerty Research & Development Co., Inc.
P. O. Box 2486
Prescott, Arizona 86302

SHEET No. 1 OF 2.