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NICOR MINERAL VENTURES

One of the NICOR basic energy companies

MEMORANDUM

To: Gary Parkison

From: N. L. Archbold

Date: July 2, 1984

Subject: CLIMAX MINE, YAVAPAI COUNTY, ARIZONA

Summary and Recommendations

The report NICOR received from Mr. Christopher French regarding this property is highly speculative and founded on few facts. My visit to the property inidcates Mr. French might have done more geology and sampling than noted in his letter to NICOR.

If my four samples contain ore-grade values in gold and silver, the property might have a low potential for a porphyry-type deposit, and we should request all of French's data. I recommend no action on the property if my samples do not contain ore-grade values.

Introduction

Mr. Christopher French submitted this property to NICOR by way of the accompanying abstract and curriculum vitae. His submittal almost resembles an application for employment. Both the abstract and the vitae seem rather padded to me. I particularly note misuse of terms such as "principle" and "flourite" coupled with a large amount of geologic "double-talk".

I spent only about two hours on the property so am in no position to question much of the report that NICOR received. I had no other information.

Location and Accessibility

The Climax Mine is in the center of Section 1, T.12 N., R.2W., Yavapai County, Arizona. It is shown on the Wilhoit 7½' topographic quadrangle.

A jeep road extends southeasterly from Highway 89 down a canyon which is tributary to the Hassayampa River. The road to the mine is not possible, in its present state, beyond a point just above the junction of the two drainages. The last mile requires walking or a trail bike.

Geology

The geology appears to involve a Precambrain complex of metamorphic and igneous rocks which are probably intruded by younger quartz monzonites (?) to rhyolites (?). The mines and prospects are in these younger (?) instrusives. The Climax mine lies along a well-defined structure that is nearly vertical and strikes northwesterly.

MEMO TO: Gary Parkison
DATE: July 2, 1984
SUBJECT: CLIMAX MINE, YAVAPAI COUNTY, ARIZONA

My observations on the surface suggest that the Climax structure might range up to 20 or 30 feet wide. Some of the old workings are probably accessible and would merit underground mapping and sampling. Features on the surface do not indicate a length of 4,800 feet which French's report claims for the Climax structure; however, this is certainly worth checking.

The Buckhaven prospect is about 2,500 feet east-northeast from the Climax Mine. It seems to be centered on a localized zone of fracturing and stockworks in rhyolitic rocks.

My brief examination indicates there is no diffuse zone of hydrothermal alteration; however, there is some possibility of disseminated and stockworks mineralization within local areas and along margins of the Climax vein. My samples were chosen to check for this possibility. If they show ore grades NICOR should request all of French's data and undertake a more comprehensive examination of the Climax Mine area.

List of Samples

NUMBER	DESCRIPTION	PPM Au	PPM Ag
F 910	Selected from dump of Buckhaven prospect silicified or meta-rhyolite containing veinlets of quartz plus pyrite.	8.60	.2
F 911	Weakly altered granitic rock on trail about 1,000 feet NW of F 910. Selected to concentrate samples containing quartz veinlets and stockworks.	.02	.2
F 912	Dump of prospect about 1,000 feet north of Climax Mine. Selected from massive quartz and weakly altered quartz monzonite. Some oxidized pyrite.	2.80	.2
F 913	Selected from upper dump at Climax Mine. Fresh to weakly altered quartz monzonite with lenses and veinlets of quartz.	5.00	.2

NLA:ls
Attachment

NICOR MINERAL VENTURES

One of the NICOR basic energy companies

Suite No. 12 390 Freeport Boulevard Sparks, Nevada 89431 Phone 702 359 3211

June 5, 1984

Mr. Christopher M. French
3030 E. Clarendon, #7
Phoenix, AZ 85016

Dear Mr. French:

I just received your letter which brought my attention to the submittal on the Climax Mine. It sounds like an interesting prospect but it is not in my exploration district. New Mexico and Arizona exploration are presently conducted out of our Albuquerque office. That office will soon close and move to Tucson.

I am sending your submittal to Mr. Clancy Wendt in our Albuquerque office. If he is interested in seeing your property you will hear from him directly.

Sincerely,

Thomas F. Cudzilo

Thomas F. Cudzilo
District Geologist
NICOR Mineral Ventures, Inc.

TFC/lmm
cc: Mr. Clancy Wendt - Albuquerque

NAME: CLIMAX MINE

TYPE: ALKALIC TO CALK-ALKALIC PORPHYRY GOLD AND MESOTHERMAL VEIN

LOCATION: SECTION 1, TOWNSHIP 12 NORTH, RANGE 3 WEST, GILA AND SALT RIVER BASE AND MERIDIAN SURVEY; PRESCOTT NATIONAL FOREST;

PRODUCTION: 1911-1916, 1933-1937; 4,000 OZ. AU, 570 OZ. AG, AND 744 LBS. CU FROM 5,300 SHORT TONS ORE;

CLAIMANTS: JOHN TRUFFA, PHOENIX, AZ.; ESTATE OF ED BLOCK, GREAT BEAR LAKE, CA.; CHRISTOPHER M. FRENCH, PHOENIX, AZ.

ABSTRACT

THE CLIMAX MINE IS CENTERED WITHIN AN EAST-NORTHEAST ELONGATE, DOME-SHAPED FEATURE APPROXIMATELY THREE AND ONE-HALF MILES LONG AND TWO AND ONE-HALF MILES WIDE. DETECTABLE GOLD MINERALIZATION, AS DEFINED BY BULK ROCK CHIP SAMPLING (IN EXCESS OF 20 LBS. PER SAMPLE), OCCURS OVER A WIDE DEPTH ZONE RANGE IN A VARIETY OF HABITS:

SAMPLE 1: LOC. NW4NE4NW4, SEC. 1, T. 12N., R. 3W.; (BAIRD PROSPECT) 0.06 OZ./T. IN STOCKWORK QUARTZ OVER INTERVAL OF 20 FEET;
SAMPLE 2: LOC. NE4NE4SW4, SEC. 1, T. 12N., R. 3W.; (CLIMAX MINE) 1.2 OZ./T. IN EN ECHELON FISSURE VEIN AND ENCLOSING WALLROCK OVER INTERVAL OF 20 FEET;
SAMPLE 3: LOC. NE4SE4NE4, SEC. 1, T. 12N., R. 3W.; (BUCKHAVEN MINE) .09 OZ./T. IN STOCKWORK OVER INTERVAL OF 20 FEET;SAMPLE 4: LOC. SE4SW4NE4, SEC. 1, T. 12N., R. 3W.; (SILICIFIED OUTCROP) .01 OZ./T. OVER 5 FEET INTERVAL;
SAMPLE 5: LOC. NE4SW4NW4 SEC. 12, T. 12N., R. 3W.; (DIRECT REPLACEMENT OF RHYODACITE DIKE) .02 OZ./T. OVER 5 FEET INTERVAL;

SAMPLES 2, 3, AND 4, WHEN INTEGRATED WITH GEOLOGIC OBSERVATIONS, DEFINE AN INFERRED ZONE OF ANOMALOUS VALUES 2,700 FEET LONG AND SEVERAL HUNDRED FEET WIDE TRENDING ENE, ROUGHLY COINCIDENT IN A GEOMETRIC SENSE WITH THE MAJOR AXIS OF THE ELLIPSE. THE WIDE EXTENT AND DIVERSE NATURE OF MINERALIZATION ARE POSSIBLY INDICATIVE OF A SIGNIFICANT, UNUSUAL, AND PREVIOUSLY UNRECOGNIZED GOLD SYSTEM.

THE ELLIPTICAL FEATURE IS INFERRED TO REPRESENT A SUBSIDENCE STRUCTURE, POSSIBLY THE BOTTOM OF A CALDERA. THE SUBSIDENCE STRUCTURE HAS POSSIBLY SERVED AS THE FOCUS FOR RESURGENT INTRUSION OF ALKALIC TO CALC-ALKALIC STOCKS, DIKES, AND PLUGS IN LATE CRETACEOUS (?) TIME. A PRIMARILY ENE-WNW DIRECTED OBLIQUE-SLIP STRUCTURAL REGIME IS RESPONSIBLE FOR SIGNIFICANT DILATION ALONG A

NNW-NNE CONJUGATE FRACTURE SET. STRUCTURALLY, THESE MUTUALLY PERPENDICULAR FRACTURE SETS, WHICH ARE PRESUMABLY INHERETED FROM THE PRECAMBRIAN, FORM THE MAJOR AND MINOR AXIS OF THE (STRAIN) ELLIPSE. THE EPIZONAL, SUBVOLCANIC, CONTACT-HOSTED FISSURE VEIN DEPOSIT KNOWN AS THE CLIMAX MINE IS REMARKABLY COINCIDENT WITH THE NORTHWEST-TRENDING MINOR AXIS OF THIS ELLIPSE. WIDESPREAD STOCKWORK SILICIFICATION AND LOW GRADE GOLD MINERALIZATION WITHIN AN ALKALIC TO CALKALKALINE SYSTEM ARE INFERRED TO POSSIBLY DEFINE A GENETIC ASSOCIATION WITH SYENITE MODEL GOLD PORPHYRY SYSTEMS. THIS NEEDS TO BE EMPIRICALLY PROVEN ON THE BASIS OF MAGMACHEMISTRY.IN ADDITION, SOME FIELD EVIDENCE INDICATES POSSIBILITIES FOR MINERALIZATION ALONG DEEP-SEATED, SHALLOW-DIPPING STRUCTURES. ADDITIONAL SMALL GOLD-SILVER AND SILVER-LEAD OCCURENCES ARE LOCATED AROUND THE PERIMETER OF THE ELLIPSE.

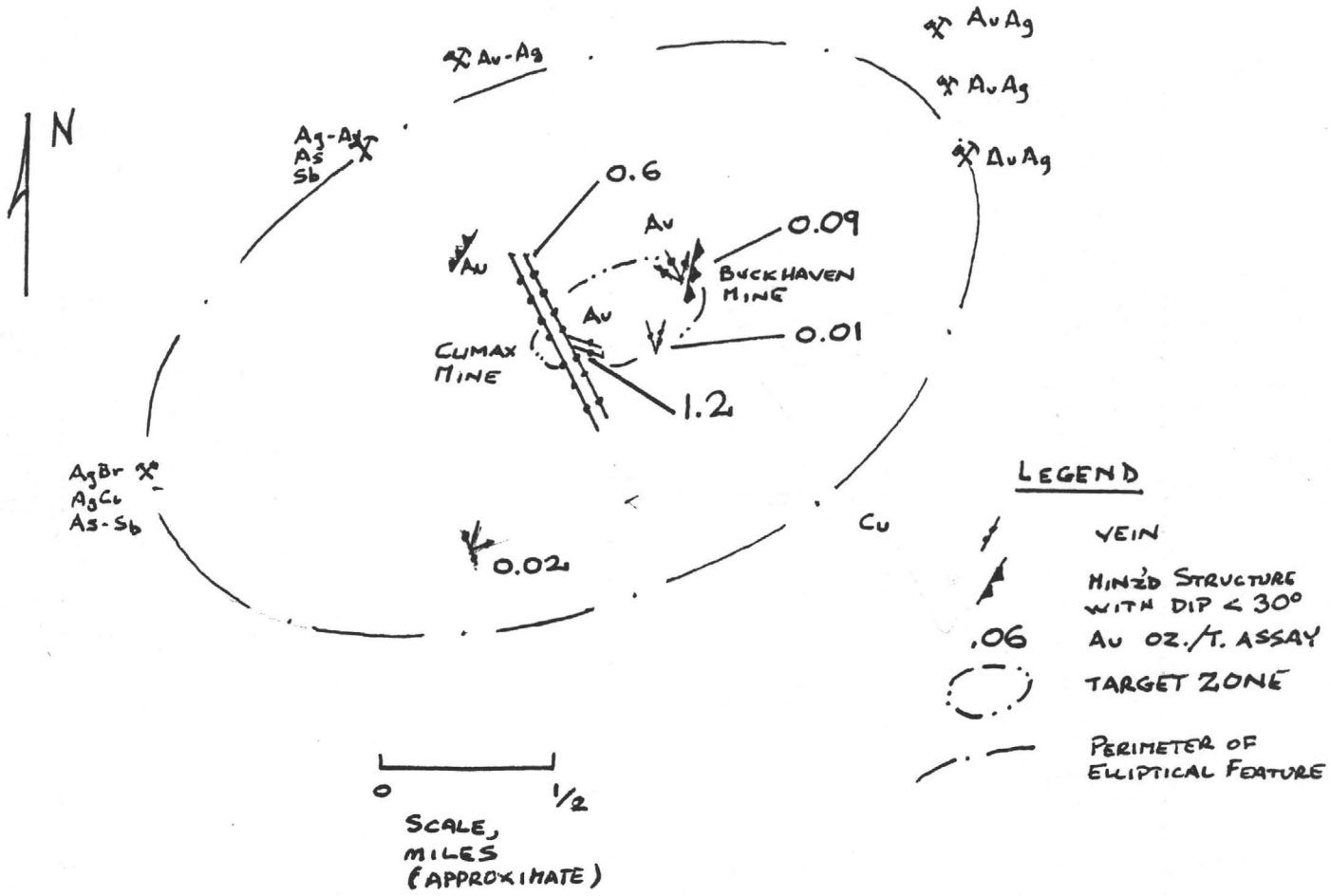
PRECAMBRIAN HOST ROCKS INCLUDE THE SO-CALLED GREEN GULCH METAVOLCANIC GROUP OF THE YAVAPAI SERIES. AT LEAST THREE SEPERATE PRECAMBRIAN IGNEOUS EVENTS HAVE METAMORPHOSED THESE ROCKS FROM GREENSCHIST TO AMPHIBOLITE GRADE. THE GREEN GULCH METAVOLCANICS OCCUR WITHIN A NORTH-TRENDING GRABEN-LIKE OR SYNFORMAL STRUCTURE BOUNDED ON THE EAST BY THE GOVERNMENT CANYON GRANODIORITE AND ON THE WEST BY AN UNNAMED QUARTZ MONZONITE OF BATHOLITHIC PROPORTIONS. THE ANCIENT GRABEN-LIKE OR SYNFORMAL STRUCTURE WHICH THE METAVOLCANICS OCCUPY REPRESENTS A ZONE OF FUNDAMENTAL CRUSTAL ANISOTROPY NEAR THE SOUTHERN TERMINUS OF THE WASATSCH-JEROME LINEAMENT.

THE LATE CRETACEOUS (?) INTRUSIVE ROCKS IN THE CLIMAX MINE AREA ARE CLASSIFIED AS MEMBERS OF THE ALKALIC TO CALC-ALKALIC SUITE. A RARE EARLY BIMODAL SUITE OF SYENITES AND MELADIORITES YIELD TO A VOLUMETRICALLY MAJOR QUARTZ LATITE CHONOLITHIC STOCK AND A PLETHORA OF RELATED PLUGS AND DIKES. THESE ARE IN TURN INTRUDED BY PREMINERAL DIKES OF PYROXENITE, DIORITE, AND ANDESITES. DIKES INFERRED TO BE TEMPORALLY RELATED TO MINERALIZATION INCLUDE QUARTZ LATITES, RHYOLITES, ALASKITES, SILICIC VITROPHYRES, SILICA-FELDSPAR ROCK, QUARTZ PORPHYRIES, BIOTITE-K-FELDSPAR-ANHYDRITE (?) DIKES, AND HYDROTHERMAL BRECCIA DIKES. THE LATTER TWO SHOW A COMPLEX INTERRELATIONSHIP WITH THE GOLD-BEARING FISSURE VEINS.

MINERALIZATION AT THE CLIMAX MINE IS CLASSIFIED AS AN EPIZONAL, CONTACT-HOSTED FISSURE VEIN AND STOCKWORK DEPOSIT. SILICIFICATION IS THE PRIMARY ALTERATION PRODUCT ASSOCIATED WITH MINERALIZATION, ACCOMPANIED BY K-FELDSPAR, SECONDARY BIOTITE, AND SERICITE. ALTERATION IS VERY SUBTLE, AND IS DIFFICULT TO RECOGNIZE BECAUSE OF THE MINERALOGICAL SIMILARITIES BETWEEN THE AFFECTED HOSTROCK AND THE FLUIDS IMPREGNATING IT. THE ALTERATION ENVELOPE DECREASES DRAMATICALLY AWAY FROM THE CENTRAL ORE CONDUITS. THE PRINCIPLE ECONOMIC MINERAL IS GOLD, OFTEN ASSOCIATED WITH BORNITE OR CHALCOPYRITE. MAGNETITE AND ARSENOPYRITE ARE COMMON ACCESSORIES. THE HIGH MAGNETITE CONTENT IS INDICATIVE OF A SYSTEM WITH A HIGH OXYGEN FUGACITY. HUEBNERITE ($MnWO_4$) HAS BEEN IDENTIFIED WITHIN THE CENTRAL ORE CONDUIT. TETRADYMITE (Bi_2Te_2S) HAS BEEN REPORTED IN THE LITERATURE. FLOURITE OCCURS IN SEVERAL LOCALITIES. PETROLOGIC AND MINERALOGIC FIELD OBSERVATIONS ARE COMPATIBLE WITH DATA COLLECTED FROM ALKALIC GOLD PORPHYRY MODELS (STAN KEITH, PERSONAL COMMUNICATION), ALTHOUGH THIS HAS NOT BEEN EMPIRICALLY DEMONSTRATED.

EVIDENCE FOR MINERALIZATION AT DEPTH MUST BE EXPLORED. SIGNIFICANT MINERALIZATION ALONG THE CLIMAX VEIN OCCURS OVER A STRIKE INTERVAL IN EXCESS OF 4,800 FEET. WORKINGS EXTEND OVER A VERTICAL INTERVAL OF 600 FEET. MINE REPORTS INDICATE THAT THE GOLD CONTENT INCREASED IN THE DEEPER, UNOXIDIZED LEVELS OF THE CLIMAX WORKINGS. THIS HAS NOT BEEN VERIFIED. PLASTIC CATACLASIS, INDICATIVE OF ELEVATED P-T CONDITIONS, IS OBSERVABLE NEAR DETECTABLE GOLD MINERALIZATION. DEEPER LEVELS OF THE MINE CONTAIN SHALLOWLY-DIPPING CALCITE VEINS REPORTED TO BE OF HIGH GOLD CONTENT. FIELD EVIDENCE SUGGESTS A RELATIONSHIP EXISTS BETWEEN CALCITE-ANKERITE VEINS AND DEEPER LEVELS OF MINERALIZATION.

IN SUMMARY, THE CLIMAX MINE IS COINCIDENT WITH THE MINOR AXIS OF AN ELLIPTICAL FEATURE OF REGIONAL SCALE. THIS FEATURE IS MAGMATICALLY CHARACTERIZED BY THE RESURGENT EMPLACEMENT OF AN INCREASINGLY SILICIC SERIES OF ALKALIC TO CALC-ALKALIC LATE CRETACEOUS (?) COMPOSITE DIFFERENTIATES. ANCIENT DEEP-SEATED FRACTURES WITHIN A STABLE CRATON REACTIVATED BY A TRANSCURRENT STRESS REGIME GUIDE EMPLACEMENT OF A SERIES OF MINERALIZING EVENTS CHARACTERIZED BY ANOMALOUSLY HIGH GOLD VALUES MINERALOGICALLY ASSOCIATED WITH BORNITE, HUEBNERITE, ARSENOPYRITE, MAGNETITE, AND TETRADYMITE. STRUCTURES ASSOCIATED WITH MINERALIZATION ARE CHARACTERIZED BY IMPRESSIVE STRIKE LENGTH. AT THE PRESENT TIME, LIMITED EVIDENCE SUGGESTS THAT MINERALIZATION CONTINUES AT DEPTH. THIS HYPOTHESIS NEEDS TO BE TESTED BY DRILLING. MINERALIZATION OCCURS IN A VARIETY OF LOCATIONS AND HABITS OVER A WIDE DEPTH-ZONE RANGE WITHIN A SUBVOLCANIC EPIZONAL ENVIRONMENT AS FISSURE VEINS AND PORPHYRY-TYPE STOCKWORK.



CURRICULUM VITAE

PERSONAL DATA:
NAME: CHRISTOPHER M. FRENCH
D.O.B.: 8/20/58
HEALTH: EXCELLENT

HOME ADDRESS: 3030 E. CLARENDON #7
PHOENIX, AZ. 85016
(602) 957-6922 (H)
(602) 893-1434 (O)

PRESENT EMPLOYER: MAGMACHEM ASSOCIATES; PART-TIME GEOLOGIC AND GEOCHEMICAL RESEARCH ASSOCIATE; DISTRICT- AND REGIONAL-SCALE TECTONIC AND MAGMATIC DATA COMPILATION; DEVELOPEMENT OF DATABASE FOR EMPIRICALLY SOUND DISCRIMINATION OF DEPOSIT TYPES WITHIN MODERN FRAMEWORK OF EXPLORATION MODELS, AS DEFINED BY MAGMACHEMISTRY AND TECTONIC AFFILIATION;

11/82 TO PRESENT: SELF-EMPLOYED CONSULTING GEOLOGIST AND HYDROLOGIST; WATER RESOURCE MANAGEMENT AND APPRAISAL FOR ENGINEERING AND RANCHING CONCERNS IN YAVAPAI CO., AZ.; DETAILED ABOVE- AND UNDERGROUND MAPPING AND APPRAISAL OF PRECIOUS METAL OCCURENCES; MANAGER OF FINANCED **ALKALI MODEL PRECIOUS METALS EXPLORATION** PROGRAM; SURVEYING AND TITLE SEARCH OF MINING PROPERTIES IN THE GREATER BRADSHAW MOUNTAINS.

6/81 TO 6/82: TEMPORARY POSITION WITH **NEWMONT EXPLORATION, LTD.**; RECONNAISSANCE GEOLOGY, GEOCHEMICAL SAMPLING, CORE AND ROTARY DRILLING OPERATIONS; DETAILED ABOVE- AND UNDERGROUND GEOLOGIC MAPPING; TRANSIT SURVEYING; **CARLIN**- AND **MESQUITE**-TYPE DISSEMINATED PRECIOUS METALS AND **PRECAMBRIAN VOLCANIGENIC** DEPOSITS; **CENTRAL NV, YAVAPAI CO., AZ., SE CALIFORNIA**;

6/76 TO 1/81: (SEASONAL) PHYSICAL SCIENCE TECHNICIAN WITH **U.S. GEOLOGICAL SURVEY**; DETAILED GEOLOGIC MAPPING OF STRUCTURE AND HYDROTHERMAL ALTERATION WITHIN 15 SQ. MILE PORTION OF THE **GABBS VALLEY RANGE, NV.**; STUDY OF REMOTE SENSING AND AERIAL PHOTOGRAPHY APPLICATIONS FOR LOCAL AND REGIONAL DELINEATION OF STRUCTURAL AND HYDROTHERMAL TRENDS IN **WEST CENTRAL UTAH AND WALKER LANE, NEVADA**; PETROGRAPHIC AND X-RAY DIFFRACTION ANALYSIS OF IGNEOUS, VOLCANIC, AND SEDIMENTARY ROCKS; GEOLOGIC AND GEOPHYSICAL SURVEYING ASSISTANT IN **ARCHEAN TERRAINS OF UPPER PENINSULA, MI.**; INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS LABORATORY ASSISTANT;

PRINCETON-Y.B.R.A. FIELD COURSE IN RED LODGE, MONTANA; GRADE: B+;FIELD MAPPING ASSIGNMENTS AT AMHERST COLLEGE; TOUR OF UNDERGROUNG FACILITIES AT MAJOR MINING DISTRICTS IN CANADA;

ACADEMIC BACKGROUND:
AMHERST COLLEGE, AMHERST, MA. 01002 (9/77 TO 4/81)
B.A. IN GEOLOGY AND GERMAN LITERATURE G.P.A.: B+
PAPERS: "ANISOTROPIC FEATURES OF THE EASTERN GREAT BASIN"; "STRUCTURE AND HYDROTHERMAL ALTERATION OF A PORTION OF THE GABBS VALLEY RANGE, NV.";
ACADEMIC HONORS: **WARREN STEARNS PRIZE FOR GEOLOGY, 1980**; NATIONAL SPACE CLUB AWARD FOR OUTSTANDING RESEARCH, 1976;

GEOLOGIC MAPPING	MAGMACHEMISTRY	TITLE RESEARCH
UNDERGROUND MAPPING	ORE PARAGENISIS	PHOTOGEOLOGY
RECONNAISSANCE	PETROGRAPHY	REMOTE SENSING
TECTONIC INTERPRETATION	CORE LOGGING	TRANSIT SURVEYING

HOBBIES:: GYMNASTICS, SKIING, SAILING, ROCK CLIMBING, PHOTOGRAPHY;

Memorandum July 2, 1984

To: Gary Parkison

From: N.L. Archbold

Subject: Climax mine, Yavapai County, Arizona

Summary and Recommendations

The report ~~we~~ NICOR received from Mr. Christopher French regarding this property is highly speculative and founded on few facts. My visit to the property indicates Mr. French might have done more geology and sampling than noted in his letter to NICOR.

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A jeep road extends southeasterly from Highway 89 down a canyon which is tributary to the Hassayampa River. The road to the mine is not passable, in its present state, beyond a point just above the ~~the~~ junction of the two drainages. The last mile requires walking or a trail bike.

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NICOR MINERAL VENTURES

One of the NICOR basic energy companies

Suite No. 12 390 Freeport Boulevard Sparks, Nevada 89431 Phone 702 359 3211

June 5, 1984

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3030 E. Clarendon, #7
Phoenix, AZ 85016

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Thomas F. Cudzilo

Thomas F. Cudzilo
District Geologist
NICOR Mineral Ventures, Inc.

TFC/lmm
cc: Mr. Clancy Wendt - Albuquerque

ME: CLIMAX MINE

TYPE: ALKALIC TO CALK-ALKALIC PORPHYRY GOLD AND MESOTHERMAL VEIN

LOCATION: SECTION 1, TOWNSHIP 12 NORTH, RANGE 3 WEST, GILA AND SALT RIVER BASE AND MERIDIAN SURVEY; PRESCOTT NATIONAL FOREST;

PRODUCTION: 1911-1916, 1933-1937; 4,000 OZ. AU, 570 OZ. AG, AND 744 LBS. CU FROM 5,300 SHORT TONS ORE;

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SAMPLE 5: LOC. NE4SW4NW4 SEC. 12, T. 12N., R. 3W.; (DIRECT REPLACEMENT OF RHYODACITE DIKE) .02 OZ./T. OVER 5 FEET INTERVAL;

SAMPLES 2, 3, AND 4, WHEN INTEGRATED WITH GEOLOGIC OBSERVATIONS, DEFINE AN INFERRED ZONE OF ANOMALOUS VALUES 2,700 FEET LONG AND SEVERAL HUNDRED FEET WIDE TRENDING ENE, ROUGHLY COINCIDENT IN A GEOMETRIC SENSE WITH THE MAJOR AXIS OF THE ELLIPSE. THE WIDE EXTENT AND DIVERSE NATURE OF MINERALIZATION ARE POSSIBLY INDICATIVE OF A SIGNIFICANT, UNUSUAL, AND PREVIOUSLY UNRECOGNIZED GOLD SYSTEM.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WILHOIT QUADRANGLE
ARIZONA–YAVAPAI CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1968. Field checked 1969

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 12, shown in blue

Fine red dashed lines indicate selected fence lines

Certain land lines are omitted because of insufficient data

UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

WIDE WORLD OF MAPS INC.
DBA ARIZONA MAP SHOP & GALLERY
1315 N. CENTRAL AVE.
PHOENIX, ARIZ. 85004
PHONE 258-9345

WILHOIT, ARIZ.
N3422.5—W11230/7.5
1969

DMA 3452 I NE—SERIES V898
INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1979