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602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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RK658 - 666

WESTMONT
MINING INC.

Prospect and Submittal Report

Date: 11/83

Property Name: MILDRED PEAK
County, State: Pima County, Arizona
Date Examined: _____ By: _____
Reply and Date: _____

Township: 20S
Range: 7E
Section: 22
Quadrangle Name: Mildred Peak
AMS Sheet: _____

Summary, Conclusions, Actions Recommended: Due to few precious metal values, no further work recommended here.

Location and Accessibility: Excellent access to ranchouse, poor to prospect area.

Owners and Intermediaries, Address, Phone, Zip: _____

Property Description, Status: Old Duval copper porphyry target; mostly lease land with about 200 acres BLM ground adjacent to Papago Indian Reservation. Currently leased(surface rights only) to Santa MargaritaRanch.

Terms: _____

Previous Exploration and Production: A few deep drill holes supposedly drilled during the 70's. Extensive geophysical work reportedly performed by Duval and Heinricks.

General Geology: Cret. age volcanics, extrusives and intrusives, locally pyritized. Area of Cret.age extensional volcanasm; on trend with Ruby Mining District to SE.

Geology of Prospect*: Silicified and pyritized intrusive rocks with narrow alteration zones; thin qtz veinlets in unaltered intrusive diorite.

Mineralization* (Primary and Secondary): Pyrite, silica flooding. Minor Cu-staining associated with a rhyolitic plug. Intensely silicified mafic dike is visible in La Moras Wash; up to5% py as large anhedral grains.

Geochem Results: Nil Au-Ag except at well known silver prospect - 105 ppm Ag, nil Au, abundant Cu oxides and silica.

Exploration Recommended: This area has been drilled for Cu-Mo potential. The Au-Ag potential is similar to the nearby Oro Blanco District. No further work is recommended here.

Attachments: Map

References: _____

* Attach geologic map, sketch or otherwise, including examiner's observations with emphasis on mineralization and alteration and their relationships to other geological features. Other desirable attachments: Location map, property map, sample results, etc.

NICOR MINERAL VENTURES

Prospect and Submittal Report

Date: _____

Property Name: Mildred Peak

County, State: Pima Co., Az

Date Examined: _____ By: _____

Reply and Date: _____

Township: 20S

Range: 7E

Section: 22

Quadrangle Name: Mildred Peak

AMS Sheet: _____

Summary, Conclusions, Actions Recommended due to low precious metal values, no further work recommended here.

Location and Accessibility Excellent Access to ranchhouse, poor to prospect Area.

Owners and Intermediaries, Address, Phone, Zip _____

Property Description, Status Old Duval copper porphyry target; mostly lease land with About 200 Acres BLM ground Adjacent to Papago Indian Reservation. Currently leased (surface rights only) to

Terms Santa Margarita Ranch.

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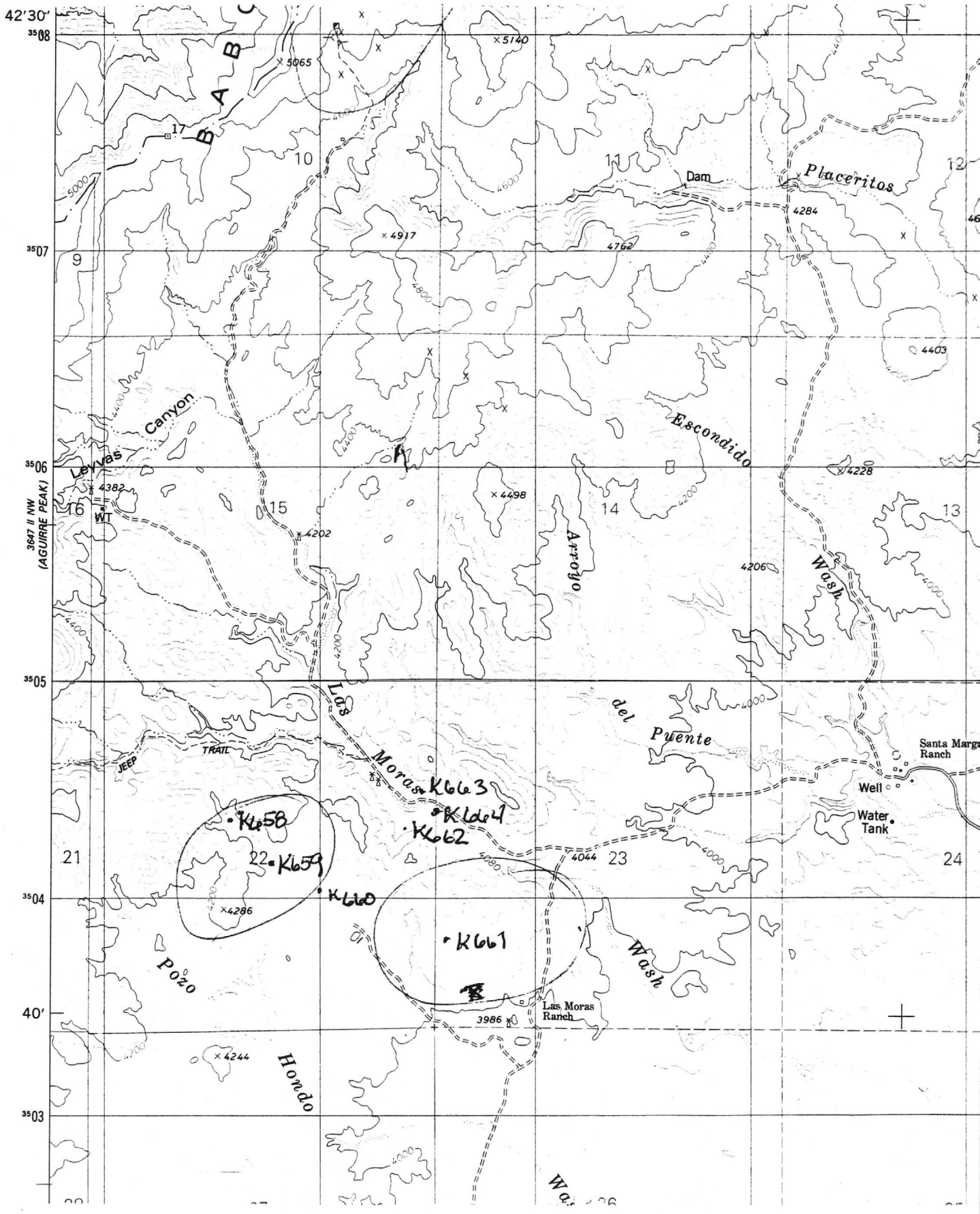
Geochem Results Nil Au-Ag except At well-known silver prospect - 105ppm Ag, nil Au, Abundant Cu brides + silica.

Exploration Recommended This Area has been drilled for Cu-Mo potential. The Au-Ag potential is similar to the nearby Oro Blanco district. No further work is recommended here.

Attachments map

References _____

* Attach geologic map, sketch or otherwise, including examiner's observations with emphasis on mineralization and alteration and their relationships to other geological features. Other desirable attachments: Location map, property map, sample results, etc.


42'30"
3508
3507
3506
3505
3504
40'
3503
3647 II NW
(AGUIRRE PEAK)
Leyvas
Canyon
Placeritos
Dam
Escondido
Arroyo
Wash
Las
Moras
del
Puente
Santa Marga
Ranch
Well
Water
Tank
JEEP
TRAIL
Pozo
Hondo
Las Moras
Ranch
K663
K664
K662
K658
K659
K660
K661
10
11
12
9
16
15
14
13
21
22
23
24
5065
5140
4917
4762
4284
4403
4228
4382
WT
4498
4202
4206
4044
4286
3986
4244

ALBUQUERQUE GEOCHEMICAL
1000 Grove St. N.E.
Albuquerque, N.M. 87110
(505) 266-6713

DATE Novembre 19, 1983

FOR Nicor

DATA SHEET

SAMPLE NO.	PPM TUNGSTEN	PPM GOLD	PPM SILVER	PPM COPPER	PPM ANTIMONY	PPM ZINC
K 658		*	.23	41	6	51
659		*	.45	12	21	10
660		*	.80	42	19	64
661		*	.27	54	3	6
662		*	.40	74	6	6
663		*	.20	59	7	25
664		*	.30	48	12	28
665		.08	105	14,800	12	52
666	< 300	*	.17	57	12	14
667	< 300	.01	.30			
668	< 300	.05	12			
669	< 300	*	1.8			
670	14,000	.22	41			
671	< 300	*	.20			
672	5600	.06	20			
673	< 300	*	.33			
674	< 300	*	1.6			
675	< 300	.06	.20			
676	< 300	*	.50			
677	< 300	*	.35			

*= Less than 01

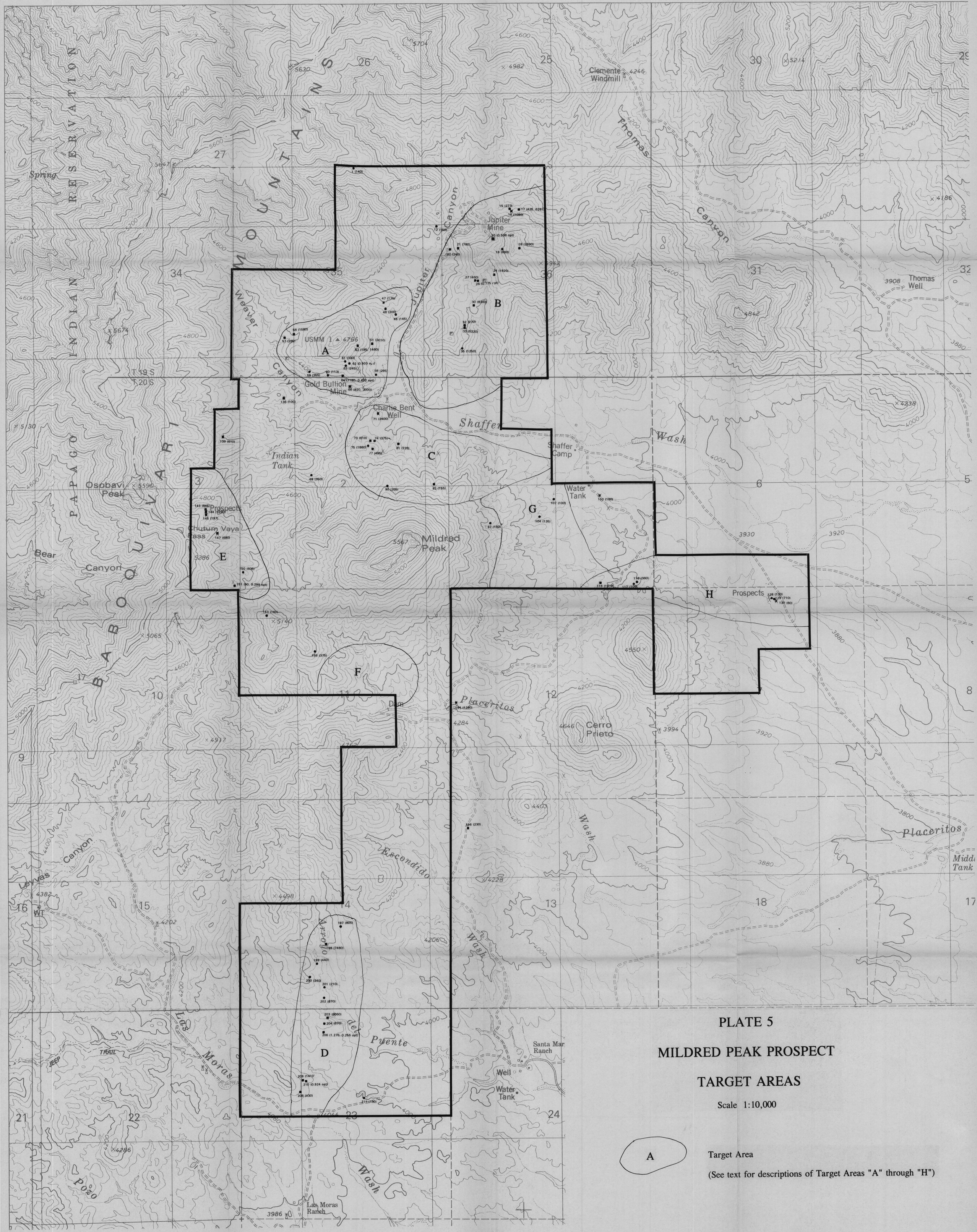


PLATE 5

MILDRED PEAK PROSPECT

TARGET AREAS

Scale 1:10,000

A — Target Area

(See text for descriptions of Target Areas "A" through "H")

PLATE 3

MILDRED PEAK PROSPECT

STREAM-SEDIMENT SAMPLES

Scale 1:10,000

- ○ 3 — Stream-Sediment Sample Locality, with sample number (<5 ppb Au)
- ○ 5 (75) — Stream-Sediment Sample Locality, with sample number and gold concentration (5 to 99 ppb Au)
- ● 7 (245) — Stream-Sediment Sample Locality, with sample number and gold concentration (≥100 ppb Au)

(Sample Descriptions in Table 1)

ALTAR RESOURCES

MILDRED PEAK PROSPECT- ROCK CHIP GEOCHEMISTRY
PLATE 4 OF 5

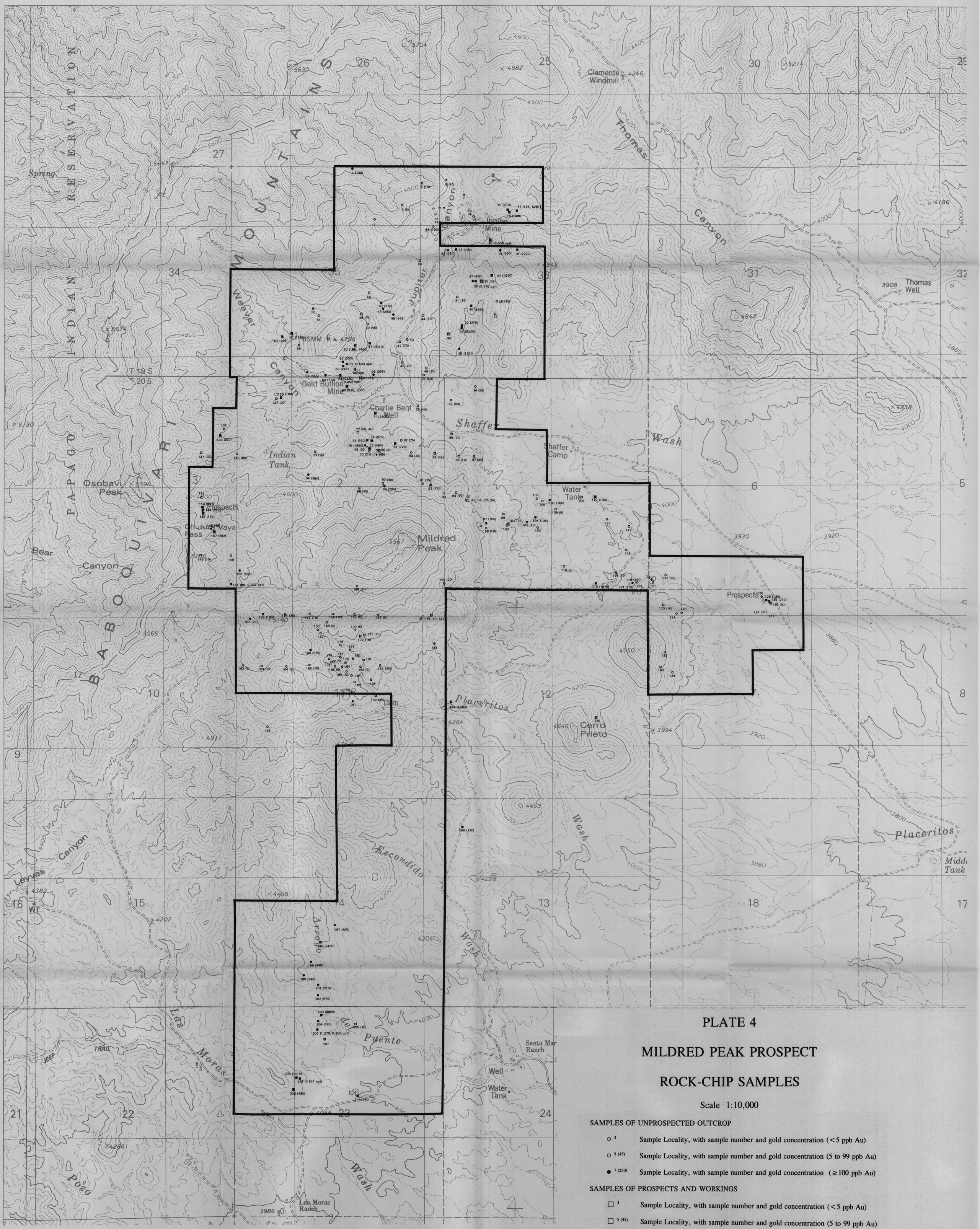


PLATE 4

MILDRED PEAK PROSPECT

ROCK-CHIP SAMPLES

Scale 1:10,000

SAMPLES OF UNPROSPECTED OUTCROP

- ○ 3 — Sample Locality, with sample number and gold concentration (<5 ppb Au)
- ○ 5 (45) — Sample Locality, with sample number and gold concentration (5 to 99 ppb Au)
- ● 7 (350) — Sample Locality, with sample number and gold concentration (≥100 ppb Au)

SAMPLES OF PROSPECTS AND WORKINGS

- □ 3 — Sample Locality, with sample number and gold concentration (<5 ppb Au)
- □ 5 (45) — Sample Locality, with sample number and gold concentration (5 to 99 ppb Au)
- ■ 7 (350) — Sample Locality, with sample number and gold concentration (≥100 ppb Au)

(Sample Descriptions in Table 1)

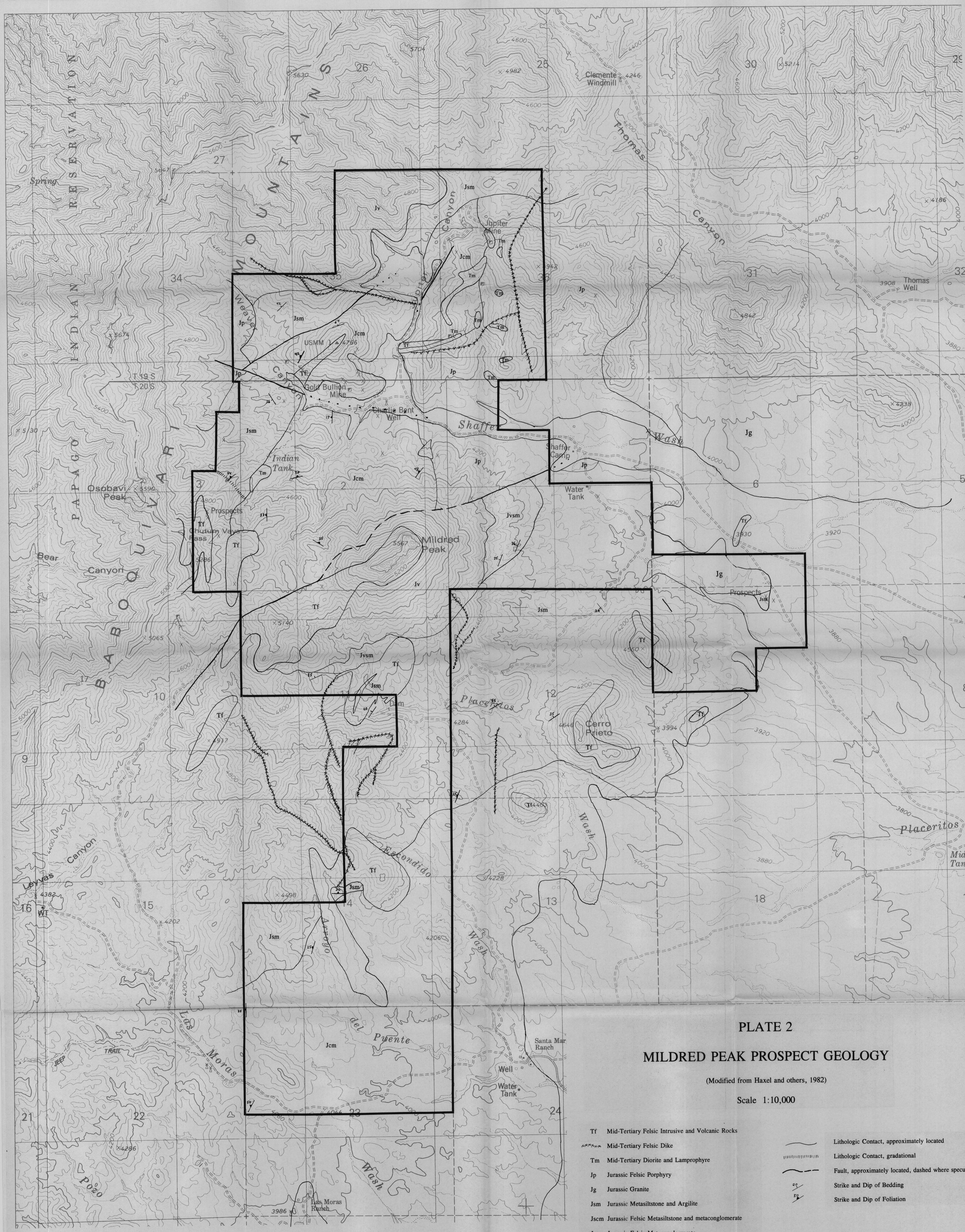


PLATE 2

MILDRED PEAK PROSPECT GEOLOGY

(Modified from Haxel and others, 1982)

Scale 1:10,000

Tf	Mid-Tertiary Felsic Intrusive and Volcanic Rocks
	Mid-Tertiary Felsic Dike
Tm	Mid-Tertiary Diorite and Lamprophyre
Jp	Jurassic Felsic Porphyry
Jg	Jurassic Granite
Jsm	Jurassic Metasiltstone and Argilite
Jscm	Jurassic Felsic Metasiltstone and metaconglomerate
Jcm	Jurassic Felsic Metaconglomerate
Jvsm	Jurassic Greenstone, Metasiltstone, Metatuff, and Mafic metaconglomerate
Jv	Jurassic Dacite and Conglomerate

	Lithologic Contact, approximately located
	Lithologic Contact, gradational
	Fault, approximately located, dashed where speculati
28	Strike and Dip of Bedding
52	Strike and Dip of Foliation

ALTAR RESOURCES

MILDRED PEAK PROSPECT- LAND STATUS
PLATE 1 OF 5

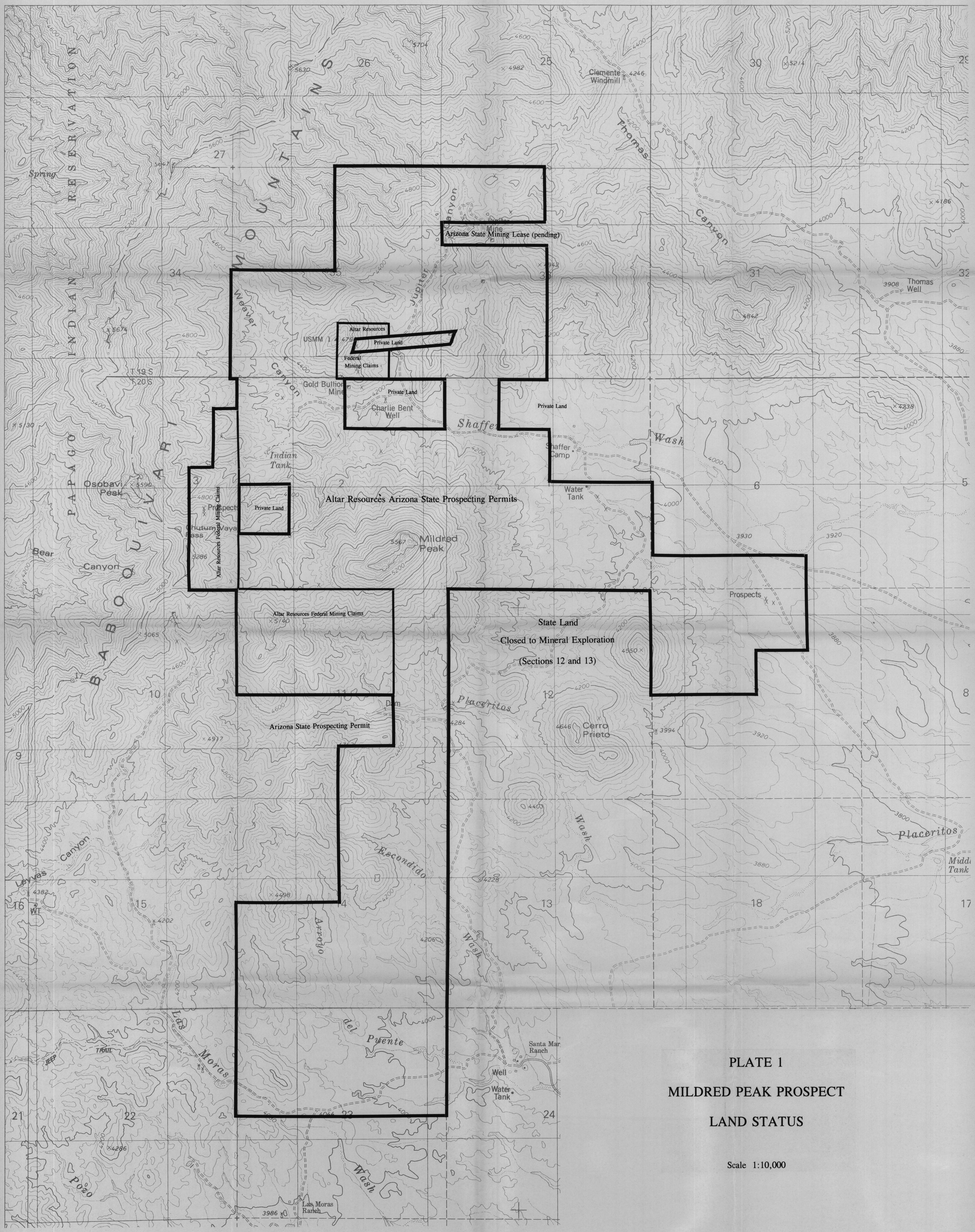


PLATE 1

MILDRED PEAK PROSPECT

LAND STATUS

Scale 1:10,000

ALTAR
RESOURCES

- Minerals Exploration
- Prospect Evaluation
- Mine Development
- Ore Deposit Geology

April 6, 1993

Michael M. Gustin
Cambior Exploration USA, Inc.
230 S. Rock Blvd., #23
Reno, Nevada 89502-2345

Dear Mike:

Enclosed is a description of the gold-copper property that I told you about when you were in Tucson visiting the AZGS. We think it has a lot of potential. Give me a call at the first number on the package if you have any questions.

It was good to see you last month. I hope you can come down to look at this property soon.

Best Regards,

John Duncan

Please File
Mildred Peak
Pima Co, Az

Thanks
R.

REC - CAMBIOR USA
APR - 9 1993

1 85733 • P.O. Box 202340 Anchorage, Alaska 99520

ALTAR RESOURCES

- Minerals Exploration
- Prospect Evaluation
- Mine Development
- Ore Deposit Geology

ALTAR RESOURCES provides services in minerals exploration, prospect evaluation, mine development, and studies of ore deposit geology. At present ALTAR RESOURCES controls a base metal/gold prospect in northwestern Alaska and a gold property in southern Arizona. ALTAR RESOURCES is presently evaluating gold prospects in Sonora, Mexico, and eastern Nevada, as well as base and precious metal prospects in Alaska.

ALTAR RESOURCES is a partnership of three experienced professional geologists. WYATT G. GILBERT (Ph.D., Geology, Stanford University) formerly served as the Deputy Director and Chief Mining Geologist for the Alaska Division of Geological and Geophysical Surveys, and has many years of experience in minerals exploration and prospect evaluation in Alaska, Arizona, Canada, and Mexico. JOHN T. DUNCAN (M.S., Economic Geology, Univ. of Arizona) has extensive experience in prospect evaluation and mine development in Nevada, Arizona, and Mexico. DAVID J. LAJACK has worked in minerals exploration throughout the western United States.

If you need further information about what ALTAR RESOURCES can do for you, contact the Tucson address during October 1-May 15, and the Anchorage address during May 16-September 30.

P.O. Box 42831 Tucson, Arizona 85733 • P.O. Box 202340 Anchorage, Alaska 99520

THE MILDRED PEAK PROSPECT

PIMA COUNTY, ARIZONA

Submitted by:

Altar Resources
P.O. Box 42831
Tucson, Arizona 85733
(602) 795-2850
(602) 881-7160

April 6, 1993

SUMMARY

Altar Resources controls a mineral property of approximately 3300 acres consisting of State prospecting permits and Federal mining claims in the Baboquivari Mountains, southern Arizona. Recent geologic studies and geochemical sampling by Altar Resources have identified economically significant mineralization, including gold associated with silicification and pyritization in Early Jurassic metaconglomerate, stratabound gold hosted by Early Jurassic argillite and greenstone, and copper/gold in intrusion-related replacement deposits. Eight target areas that are particularly favorable for further exploration have been identified.

LOCATION, ACCESS, LAND STATUS

Altar Resources' Mildred Peak Prospect is located in the central Baboquivari Mountains (Mildred Peak 7.5 min. Quadrangle) in southern Arizona, approximately 65 miles southwest of Tucson. The property is centered on Mildred Peak and contains almost 3300 acres, including 22 federal mining claims (380 acres), 7 State prospecting permits (2034 acres), and 3 pending State prospecting permits (880 acres) (Plate 1). Elevations on the property range from 3880 to 5567 feet. Access is provided by ranch roads that leave State Highway 286 between mileposts 14 and 16.

PAST PRODUCTION AND EXPLORATION

The Mildred Peak Prospect is within the Mildred Peak Mineral District of Keith and others (1983), part of the old Baboquivari Mining District. Production began in the area in the 1880's and continued sporadically until World War II. The main products were gold and silver, with subordinate molybdenum, copper, lead, and manganese production. The two most important mines in the area, the Gold Bullion Mine and the Jupiter Mine, are reported to have produced approximately 3100 tons @ 1.0 opt Au and 12 opt Ag, and 400 tons @ 0.7 opt Au and 12 opt Ag, respectively. The Gold Bullion Mine produced several hundred tons of high-grade molybdenum ore; both mines produced minor copper and lead. Several other mines produced smaller tonnages at similar grades. Minor placer gold was recovered from alluvial gravels on the eastern flanks of the mountains (Keith, 1974).

Some modern exploration has been conducted in the prospect area. Duval Corporation investigated the area as a possible molybdenum porphyry system in the early 1980's (Seaman, 1983), and Freeport-MacMoRan Gold/Independence Mining explored the area for gold in the mid-and late 1980's.

GEOLOGY

The Presumido Peak 15' Quadrangle, which includes the Mildred Peak prospect, was mapped in reconnaissance fashion by Haxel and others (1982). They describe the area generally as a west-dipping, west-facing monocline of Jurassic sedimentary and volcanic rocks, which is intruded by several generations of generally felsic to intermediate stocks and dikes, ranging in age from Jurassic to mid-Tertiary. Most of the Mildred Peak Prospect is underlain by northeast-striking Early Jurassic rocks, including two rock packages of metasiltstone and argillite, two rock packages of felsic volcanic metaconglomerate, and metamorphosed felsic intrusions. Metasandstone, metarhyolite, and diabase crop out locally. Regional metamorphism affected Jurassic rocks during latest Cretaceous to earliest Tertiary time (Haxel and others, 1980), and the Jurassic rocks are intruded by prominent dikes of mid-Tertiary rhyolite (Haxel and others, 1982; Seaman, 1983). Northeast and WNW trending faults cross the prospect area (Haxel and others, 1983), and a previously unrecognized high-angle or thrust fault may repeat part

of the Early Jurassic section. The geology of the Mildred Peak Prospect area, modified from Haxel and others (1982), is summarized on Plate 2.

GEOCHEMICAL SAMPLING

Sampling by Altar Resources has revealed a broad gold anomaly in both stream sediments and bedrock (Plates 3 and 4). Seventy-four stream-sediment samples from the Mildred Peak Prospect area were analyzed for gold (Table 1, Plate 3). Fifty-seven samples (77%) contained detectable gold, and 23 (31%) contained at least 100 ppb Au.

Two hundred and thirty-four rock chip samples, collected from most old workings and many unprospected bedrock outcrops within the area, were analyzed for gold (Table 2, Plate 4). A selected fraction of the rock chips were analyzed for a suite of nine metals (Table 3). One hundred and sixty-nine samples (72%) contained detectable gold, 81 (35%) contained at least 100 ppb Au, and 28 (12%) contained at least 1.0 ppm Au. This sampling program and geologic investigations by Altar Resources have led to some hypotheses as to the geologic controls on the mineralizing systems and the selection of several tentative target areas, which are discussed below.

ALTERATION AND MINERALIZATION

Within the Mildred Peak Prospect, gold mineralization is found in two distinct geologic settings. First, pervasive silicification and pyritization has affected Early Jurassic metaconglomerate and porphyry in the Jupiter Canyon-Weaver Canyon area in the northern part of the prospect area, and in the Arroyo del Puente area in the southern part of the prospect area. Anomalous gold concentrations are scattered throughout the silicified area, in particular within the silicified metaconglomerate. These rocks hosted most of the historic gold production in the area and have been the target of the more recent exploration. The highest concentrations of gold, including the Gold Bullion and Jupiter mines, are associated with crosscutting (approximately E-W striking) mid-Tertiary dikes and quartz veins, but there is abundant evidence that significant gold mineralization is concentrated in low-angle zones approximately parallel to bedding and metamorphic foliation. Mineralization within silicified areas may be associated with (a) the intrusion of mid-Tertiary rhyolites (favored by most previous workers), (b) mid-Tertiary remobilization of Early Jurassic stratabound epigenetic mineralization, or (c) mid-Tertiary remobilization of Early Jurassic syngenetic, stratabound mineralization. Further work is needed to unravel causes of mineralization and to adequately test obvious targets in the silicified areas, but the possibility of volcanigenic gold mineralization within part of an Early Jurassic volcanic arc should lead to new exploration targets. Gold and copper mineralization is also localized within some Tertiary felsic intrusive bodies. These occurrences are probably genetically similar to the conglomerate-hosted gold deposits.

The second setting for gold mineralization lies within parts of the metasiltstone-argillite packages near Mildred Peak. Here very strong stream-sediment geochemical anomalies and visible gold in both sediments and soils suggest that a previously unrecognized gold-bearing horizon is located within a sequence of greenstone, metatuff, metasiltstone, and mafic volcanic metaconglomerate that forms part of the meta-siltstone-argillite packages. Alteration in this unit is subtle, consisting of minor iron staining and quartz veining.

The minor base metal production reported from some of the mines in the prospect area and abundant copper shows throughout the district suggest that significant base-metal ore may exist in the district. The possibility that a porphyry base metal system is present at depth is supported by the

widespread alteration and the presence of quartz-monzonite porphyry dikes spatially associated with some copper mineralization. These dikes locally contain rounded quartz "eyes" and pyrite; they are not clearly associated with either the Jurassic granitoids or the mid-Tertiary rhyolite dikes.

TENTATIVE TARGET AREAS

The geochemical anomalies identified by stream sediment and rock chip sampling are only partially coincident with known mineralization and suggest the possible presence of undiscovered gold ore in several areas of the Mildred Peak property and in at least two distinct geologic settings. Areas of particular exploration interest are shown on Plate V and described below.

I. Metaconglomerate-Hosted Gold Mineralization

The silicified, pyritic metaconglomerate is prospective over its entire exposure, from north of the Jupiter mine to the Arroyo del Puente area, but preliminary exploration by Altar Resources suggests several specific targets.

(Area A) The hill immediately north of the Gold Bullion Mine in south central section 35 is a primary target. A complex low-angle zone of intense silicification and pyritization, which strikes northeasterly and dips 15 to 30 degrees to the northwest, is exposed along the southern and eastern sides of the hill and apparently controls mineralization that has been tested by several prospect pits. Rock grading to more than 0.5 opt Au is exposed in the prospects, and similar material exposed over much of the hill contains 100 to 400 ppb Au. The low-angle zone could host a multimillion-ton ore body, and proximity to the Gold Bullion Mine suggests that undiscovered high-angle quartz veins might locally increase the grade of a large low-grade body. This target is untested by drilling

(Area B) In the west half of section 36, from the Jupiter Mine area to Shaffer wash, the metaconglomerate is variably silicified and pyritic, and is intruded by Jurassic porphyry and Tertiary rhyolite dikes and mafic bodies. Geochemical sampling has revealed sporadic high gold values (up to 0.775 opt) associated with high-angle quartz veins, low angle zones, and in altered rock without any obvious structural association. A few drill holes have penetrated this area, but it has probably not been adequately tested. Additional detailed sampling and mapping of alteration and structure should reveal additional drill targets.

(Area C) A high-angle E-W striking shear zone(?), marked by intense silicification, pyritization and sheeted quartz veining extends from the northeast quarter of section 2 south of Charlie Bent Well to the northwest quarter of section 1 near Shaffer Camp. The most significant bedrock gold values are at the west end of the trend, but sporadic, geochemically significant values occur along the length of the trend to the east, where it is up to several hundred feet wide. The intense alteration and veining and the strong E-W structural control, in combination with the gold values, suggest that this area should be more carefully explored.

(Area D) A large area of silicified, pyritic, metaconglomerate intruded by Tertiary rhyolite in the southern part of the prospect area near Arroyo del Puente is similar in most respects to the Jupiter-Gold Bullion area to the north. Limited sampling in the area has revealed consistently anomalous gold values in the altered conglomerate and in a zone of more intense alteration and higher-grade gold mineralization approximately one-half mile long. Although this area has been previously sampled and drilled, it is not clear that the most prospective zone was tested or even recognized.

II. Tertiary Intrusion-Centered Gold-Copper Mineralization

(Area E) Significant gold and copper mineralization occurs at the Emmett and Elgin Mine and a prospect approximately 3/8 mile to the SE. The deposits are hosted by veins and fractures within Tertiary, dacitic, feldspar porphyry that intrudes interbedded Jurassic metamorphosed siltstone, sandstone, and conglomerate. Varying fracture orientations and localization of mineralization within the dacitic stocks suggest the possibility of an intrusion-centered gold-copper system. The Emmett and Elgin Mine produced about 100 tons of ore grading 1.0 opt Au and minor base metals (Keith, 1974).

III. Argillite-Greenstone Hosted Gold Mineralization

Two distinct areas on the flanks of Mildred Peak are marked by significant gold anomalies in the stream sediments and soils.

(Area F) Abundant placer gold and geochemical values up to nearly 1 ppm Au in the fine (-200 mesh) fraction occur in sediments from four tributaries to Placeritos Creek that drain the southern flanks of Mildred Peak. Gold can also be panned from soils on some of the slopes drained by these tributaries. Although initial rock-chip sampling has not revealed any high gold values in bedrock, the well-defined nature of the sediment and soil gold anomalies suggests a local source.

(Area G) A similar stream-sediment and soil gold anomaly occurs in the central and southeastern part of section 1, south of Shaffer Camp. Visible gold is less abundant and finer-grained than in the Placeritos Creek area, but geochemical values in the fine fraction of the sediments are of nearly the same magnitude. Soils developed on Jurassic argillite in the Shaffer Camp area contain fine-grained, highly angular gold, recoverable by panning. Reconnaissance rock-chip sampling of the area has revealed significant geochemical gold values (50-150 ppb) but no ore-grade rock.

Both of these anomalous areas are on and downslope from a distinctive package of volcanic and volcaniclastic rocks (greenstone) that locally forms the upper part of the siltstone-argillite unit. These rocks and the underlying argillite are locally iron-stained, sheared, and cut by small (locally isoclinally folded) quartz veins and veinlets, but alteration is not pronounced. The sediment and soil gold anomalies are coextensive with known exposures of this rock package. The evidence strongly suggests a source of gold within these rocks, possibly a disseminated, volcanigenic or synmetamorphic deposit. Further detailed sampling and geologic mapping of these areas should be a high priority.

IV. Intrusive Contact-Related Copper-Gold Mineralization

(Area H) Prospects in the north-central part of section 7 are in oxidized, ore-grade, copper-gold mineralization hosted by Jurassic sandstone and siltstone near the contact with Jurassic(?) granitic rocks. A smaller and unprospected, but otherwise identical copper occurrence was discovered by Altar Resources in the southeastern corner of section 1, also near the granite contact. In both occurrences the copper minerals, mainly chrysacolla, are disseminated in the sandstone with no evidence of structural control. They are apparently replacement-type deposits related to the granite contact, however, the deposit in section 1 occurs in close proximity to a quartz-monzonite porphyry containing rounded quartz "eyes" and oxidized pyrite, raising the possibility that a poorly exposed copper porphyry is the mineralizer. In either case, the two occurrences are undelimited and largely surrounded by Quaternary cover capable of obscuring a significant deposit.

CONCLUSIONS

The Mildred Peak Prospect is located in a highly mineralized area likely to contain undiscovered ore. Geologic investigation and geochemical sampling has indicated new targets and exploration strategies in previously recognized, but inadequately explored, settings, and has revealed potentially significant mineralization in previously unrecognized settings. Further exploration could result in the discovery of important new gold and copper ore deposits.

REFERENCES CITED

Haxel, G.B., Wright, J.E.;, May, D.J., and Tosdal, R.M:., 1980a, Reconnaissance geology of the Mesozoic and lower Cenozoic rocks of the southern Papago Indian Reservation, Arizona: a preliminary report, in Studies in Western Arizona, Jenney, J.P. and Stone, C. (eds.): Arizona Geol. Soc. Digest, v. 12, p. 12-27.

Haxel, G., May, D.J., and Tosdal, R.M., 1982, Reconnaissance geologic map of the Presumido Quadrangle, Arizona, U.S. Geological Survey Miscellaneous Field Studies Map MF-1378, 1;62,500.

Keith, Stanton B., 1974, Index of mining properties in Pima County, Arizona, Arizona Bureau of Geology and Mineral Technology Bulletin 189, 156 p.

Keith, Stanley B., Guest, D.E., and DeWitt, Ed, 1983, Metallic mineral districts of Arizona: Arizona Bureau of Geology and Mineral Technology Map 18, Scale 1:1,000,000.

Seaman, S.J., 1983, Geology and ore potential of the Jupiter Canyon region, Baboquivari Mountains, Arizona, unpublished M.S. thesis, Tucson, Arizona, 99 p., 3 plates.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OATMAN QUADRANGLE
ARIZONA—MOHAVE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

3054 II NE (DAVIS DAM)
3154 III NE (SECRET PASS)
3154 III NW (UNION PASS)
3054 II SE (DAVIS DAM SE)
3154 III SE (MOUNT NUTT)
3053 IV NE (NEEDLES NE)
3153 IV NE (WARM SPRINGS)
3153 IV NW (BOUNDARY CONE)

114°30′ 35°07′30″ 728 000m E. 729 730 731 R. 21 W. 27′30″ 732 R. 20 W. 733 734 7 MI. TO ARIZ. 68 25′ 736 737 738 310 000 FEET 739 114°22′30″ 35°07′30″

1 500 000 FEET

3889 000m N. 3888 3887 3886 3885 5′ 3884 3883 3882 3881 2′30″ 3880 3879 3878 3877 1 460 000 FEET 3876

T. 20 N.
T. 19 N.

BULLHEAD CITY 7 MI.
ROGERS LANDING 5 MI.

21 MI. TO U.S. 66
KINGMAN 25 MI.

TOPOCK (U.S. 66) 21 MI.

35°00′ 114°30′ 729 280 000 FEET 731 R. 21 W. 27′30″ R. 20 W. 733 735 25′ 736 738 739 000m E. 35°00′ 114°22′30″

INTERIOR GEOLOGICAL SURVEY, RESTON, VIRGINIA 1990

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1965. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Arizona coordinate system, west zone
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Map photoinspected 1981
No major culture or drainage changes observed

UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
GN MN 1°28′ 26 MILS 15° 267 MILS

SCALE 1:24 000
1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION
Medium-duty
Light-duty
Unimproved dirt

ARIZONA
QUADRANGLE LOCATION

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

OATMAN, ARIZ.
N3500—W11422.5/7.5

1967
PHOTOINSPECTED 1981
AMS 3154 III SW—SERIES V898

TABLE 1- MILDRED PEAK PROSPECT STREAM SEDIMENT SAMPLES

Map No.	Rock No.	ppb Au
1	24	200
2	23	90
3	22	160
4	21	20
5	25	<5
6	4	<5
7	3	130
8	2	20
9	40	20
10	39	65
11	38	5
12	5	<5
13	6	410
14	7	30
15	71	60
16	41	20
17	72a	55
17	72b	60
18	73	15
19	26	40
20	9	<5
21	8	10
22	74	390
23	54	890
24	55	50
25	116	30
26	53	100
27	52	40
28	115	430
29	20	10
30	19	580
31	117	160
32	76	165
33	75	30
34	61	<5
35	62	<5
36	63	255
37	64	160
38	65	20
39	44	40
40	49	<5
41	51	<5
42	48	<5
43	47	15
44	46	40
45	45	25
46	50	860
47	14	290
48	67	215
48	67b	35
49	114	370
50	66b	160
50	66	<5
51	68	35
51	68b	35
52	69	<5
53	70	410
54	70b	165
55	15	970
56	16	385
57	17	<5
58	110	10
59	13	<5
60	108	15
61	109	40
62	12	<5
63	107	20
64	11	<5
65	18	<5
66	106	150
67	105	50
68	104	25
69	77	60
70	78	<5

TABLE 2- ROCK CHIP GEOCHEMISTRY

Map No.	R No.	Au (ppb)	m-s	Description
1	138	140		Fe-st, fractured dacite
2	132	< 5		Mn-stained purple volcanic rock
3	128	5		Fe-st purple rhyodacite porphyry
4	123	10		Purple, locally porphyritic rhyodacite w local rhyodacite breccia in N-S zone of fe-st fractures
5	137	10		Lt brown weathering, med gray phyllitic siltstone
6	103	35	y	Shaft in gray, silicified metaconglomerate w qtz veins up to 5 cm th
7	89G	< 5		Gray-green slightly siliceous argillite
8	126	85		Brecciated, fe-st argillite
9	127	35		Silicified sedimentary rock
10	139	< 5		Argillite w fe-st fractures
11	130	< 5		Silicified, Fe-stained meta-argillite (?) from shear zone displacing dike
12	131	150		Silicified, Fe-stained meta-argillite (?) from shear zone displacing dike
13	23	< 5		Fe-st qtz diorite
14	24	< 5		White, altered rhyolite dike swarm. Trends E-W. Fe-st on fractures
15	104	273		Qtz vein in trench
16	105	1090		Fe-st qtz vein in rubble
17	106a	425		Cut in fe-st porphyry w qtz veinlets
17	106b	6281		10" th qtz vein w pyrite
18	107	2990		Trench in 7-8 m th fe-st qtz vein trending N30E
19	27	660		Fe-st, silicified rhyolite (?).
20	25	< 5		Jupiter Mine dump. Fresh med-gr diorite. Commonly w dissem py or py in fractures
20	26	0.508 opt	y	Jupiter Mine dump. Qtz vein float w visible py and molybdenite (?).
21	102	780		Shaft in silicified, pyritic metaconglogmerate and contact w Jts dike. Silicified zone trends E-W
22	101	240		Shalow pit w silicifiec metaconglomrate w qtz veinlets
23	22	< 5		Fractured 10 m th zone of silicified med gray argillite
24	90G	1820		Steeply N-dipping, N60W trending, fe-st 2 m-th qtz vein in silicified metaconglomerate
25	108	35	y	Shaft . Sample of pyritic, silicified qtz vein
26	109	0.775 opt		Silicified, Fe-stained rock from west end of small pit
27	191D	460		5 ft across silicified, Fe-stained, NE-striking zone with qtz vein
28	110	30		Chip sample over 10 m in saddle of fe-st silicified Jts
29	111	< 5		Silicified, fe-st Jts
30	193D	8360		Qtz vein and silicified, pyritic rock from dump of pit and nearby outcrop
31	192D	15		Slightly Fe-stained intrusive (?) from road cut

TABLE 2- ROCK CHIP GEOCHEMISTRY

Map No.	R No.	Au (ppb)	m-s	Description
32	112	270		Silicified, Fe-stained Jp (?) from adit and road just above
33	116	5220		Pyritic vein qtz from dump of south prospect adit
34	113	< 5		Dump near shaft. Sample of silicified, pyritic argillite(?)
35	115	1250		Very fe-st, sheared porphyry
36	91G	55		Fe-st, silicified Jts
37	117	60		Float of silicifiec Jts
38	36	40		Silicified argillite w fe oxides
39	150D	40		Silicified, sericitic, Fe-stained Jp(?)
40	141G	25		Muscovite-qtz bearing, fe-st, gray silicified Jts
41	122	20		Silicified altered intrusive rock w abundant fe ox
42	28	70		Fe-st rhyolite
43	114	< 5		Silicified, Fe-stained metaconglomerate (?)
44	190D	10		Silicified, Fe-stained Jp or conglomerate
45	134	145		Silicified, Fe-stained metaconglomerate in and near prospect trench
46	125	200		Very fe-st silicified metacg w scattered py
47	124	175		Shaft w fe-st silicified metacg w shear N10W, 35 S
47	140	< 5		Sample from dump at shaft
48	133	< 5		Silicified, Fe-stained metaconglomerate near dike
49	129	45		Pit w fe-st silicified metaconglomerate
50	135	45		Silicified, Fe-stained metaconglomerate
51	136	3010		25 cm th qtz vein in metacg. Trends N60W, 65S
52	35a	185		Fe-st silicified metaconglomerate 50' above pit
52	35b	1460		Pit wi bright fe-st silicified metaconglomerate w qtz vein
53	143G	< 5		Orange, slightly fe-st, silightly silicified metacg
54	144G	< 5		Random chip for 15-20 m along 1-3 m th qtz vn that strikes N60E, dips 50-70W
55	145G	< 5		Dark gray silicifiec siltstone
56	146G	1580	y	Shaft in silicified metacg w az & ml locally on fractures. Silicified zone 3-5 m th parallel to contact w siltstone
57	156D	285	y	Cu- and Fe-stained qtz vein, N-S, 60E
58	155D	< 5		Soft, Altered, Fe-stained conglomerate
59	154D	355		chips across 15 ft of prominant low-angle ledge of silicified, Fe-stained conglomerate
60	153D	113		Chips across low-angle ledge of silicified, Fe-stained conglomerate
61	34	330		1-2 m-th ledges of NW dipping fe-st silicified metaconglomerate. Sampled for 20-30 ft across strike
62	LM15	0.503 opt		Silicified, Fe-stained conglomerate grabbed from low-angle ledge

TABLE 2- ROCK CHIP GEOCHEMISTRY

Map No.	R No.	Au (ppb)	m-e	Description
63	152D	245		10 vertical feet across low-angle ledge of silicified, Fe-stained conglomerate w/ qtz veinlets
64	33	0.452 opt		Fe-st silicified metaconglomerate
64	84	7180		Silicified, pyritic conglomerate in pit
65	151D	80		chips 100 ft along N-S, 20 degree w-dipping ledge of silicified, Fe-stained Conglomerate
66	3a	820	y	Yellow-st, white altered wallrock at Gold Bullion Mine
66	3b	3000	y	Qtz vn, E-W trending, steep N dip, 10-20'-th
67	142G	32	y	Fe-st, silicified metacg & qtz vein at W-dipping inclined on N-S, 20W shear w 11 qtz veins EW vns also
68	LM16	295		Silicified, Fe-stained conglomerate grabbed from pits on low-angle structure
69	32	350		Locally shattered, fe-st silicified metaconglomeratae
70	31	15		Lt gray, med-fine gr silicified felsite/conglomerate
71	147G	2400		Pits. Chips over 30-40 m of E-W trending vein 1-2 m th
72	2a	60	y	Altered white granitic rock
72	2b	40	y	Dump of white qtz vn w py
73	170	610		1' th qtz vein in old pit
74	157D	375		White qtz in E-W, S-dipping bull qtz vein
75	81	1860		Chip samples across 30' wide zone of silicfied rock
76	158D	30	y	Country rock including tuff(?) and silicified porphyry
77	80	495		Shaft w fe-st 1 m-th qtz vn
78	171	20		Fe-st silicified metaconglomerate
79	159D	65		Chip sample 50 ft across qtz vein and silicified shear(?) zone
80	148G	5		1.0 m th qtz vn in granodiorite. 2 pits & 10+ m long adit on N75W, 85NE trending qtz vein
81	149G	720		Cut in hill. Sample of qtz vn (dump), Mn-silicified veinlets, & weathered diorite
82	160D	75		E-W shear zone, silicified and Fe-stained
83	15G	70		Fe-st, silicified Jts
84	161D	45		Chips 50 ft across Fe-stained, silicified Jp(?) and qtz veins in E-W vertical zone
85	4	70	y	Locally fe-st felsite (Jts?)
86	16G	10		Chips over 30' of silcified rock wo 2.0 m th qtz vein on N70W, 80N shear. Pit dug on S side of vn on shear
87	162D	45		Chips 50 ft across Fe-stained, silicified Jp(?) and qtz veins
88	172	65		Fe-st metaconglomerate
89	173	40		Pit in silicified ss w small qtz vns
90	174	205		Silicified metaconglomerate
91	175	75		Chip across 200' of silicified fe-st metaconglomrate
92	176	155		Pit in fe-st silicified metaconglomerate

TABLE 2- ROCK CHIP GEOCHEMISTRY

Map No.	R No.	Au (ppb)	m-s	Description
93	177	< 5		Gray igneous rock
94	17G	55		Trench on purple, fe-st silicified Jts(?) & qtz w dissem pyrite
95	45	40		Silicified porphyry w fe ox
95	46	55		Silicified porphyry w fe ox
95	47	20		Silicified porphyry w fe ox
95	48	25		Silicified porphyry w fe ox
96	163D	10		Black to purple to red Fe- and Mn-stained volc. rock
97	178	160		Argillite w fe oxides
98	164D	10		Gray, Fe-stained argillite
99	18G	< 5		4 m th; silicified zone in argillite just E of greenstone unit
100	179	< 5		Fe-st shear in schist w qtz veinlets
101	164DX	25		Gray-green arkose and conglomerate
102	166D	10		Isoclinally folded qtz vein and Fe-stained wall rock
103	214L	<5		Fe-st gray siltstone
104	203D	135		Gray, Fe-stained argillite
105	19G	< 5		Lt green to lt gray metatuff
106	190G	< 5		Chip sample for 100' along ridge in silicified dark gray argillite w fe-st qtz vns up to 1.0 m th parallel to foliation
107	204D	100	y	Slightly Cu-stained greenstone
108	167D	5		Metatuff argillite and qtz
109	191G	< 5		Lt gray silstone wi orange-st on fractures
110	189D	100	y	Cu-stained qtz and argillite from prospect dump
111	14	< 5		Fe-st argillite
112	21	< 5		Pit w fe-st gray argillite w SW-trend. qtz veins
113	20	< 5		Sample of gray argillite, bleached altered argillite, and fe-st med-coarse grained ss
114	37	15		Argillite
115	210L	5		Qtz veinlets in schist
116	213L	1910		Pit w 1' th fe-st qtz vein
117	180D	105	y	Fe-stained argillite with pyritic qtz veinlets
118	181D	360	y	Silicified white metasandstone cut by epidote veinlets and qtz veinlets w ml on fractures
119	182D	< 5	y	Fe-stained fine-grained siliceous rock (hornfels?)
120	183D	< 5	y	Silicified WNW trending zone along qtz-eye porphyry. Sample across both. In hornfelsed mafic granitic phase
121	184D	< 5	y	Black carbonate material
122	179aD	35	y	feldspar porphyry dike cutting granite

TABLE 2- ROCK CHIP GEOCHEMISTRY

Map No.	R No.	Au (ppb)	m-a	Description
122	179bD	< 5	y	granite near dike
123	185D	10	y	Qtz and gouge from fault zone
124	186D	< 5	y	Silicified, pyritic volc. breccia
125	187D	< 5	y	Qtz-rich breccia
126	178D	< 5	y	Granite near contact with seds
127	62	35	y	Very fe-st breecia
128	88G	130	y	Spotted gray argillite wi local silicified shears
129	29	710	y	Cu-stained, fine-grained sandstone
130	188D	80	y	Cu-stained sandstone from shaft
131	30	< 5		Breccia in fe-st dark gray argillite
132	49G	< 5		Gently NW-dipping black muscovite-qtz pelitic schist w parallel qtz veinlets
133	86G	< 5		Sample across flt w gouge 1.0 m th and breccia 20 m th. Greenstone & argillite to W, tuffaceous phyllite to E
134	87G	< 5		Lt gray green metatuff
135	38	< 5		Brecciated argillite w abundant fe oxides
135	39	< 5		Altered intrusive rock
136	71	100		Shallow pit w 2'-th qtz vn
137	72	30		Cut w 1m-th shear w qtz vn
138	LM18	< 5		Gray feldspar porphyry
139	118	610	y	Pit w N30E, 60Nw trending, 1-3m th qtz-Cu-Mn vein
140	73	80		Cut w 1'-th qtz vn
141	121	35		Qtz vein in shear zone
142	LM20	< 5		gray Tertiary(?) feldspar porphyry
143	75	844	y	North shaft w cu-st wall and qtz vn
144	74	1292	y	Middle shaft w cu-st qtz vn
145	76	197	y	South shaft w cu-st wall and qtz vn
146	78	40		Fe-st, altered metased on road
147	79	682	y	Shallow pit w 1m-th qtz vn
148	LM21	10		Silicified intrusive rock
149	LM22	< 5		Rhyolite porphyry
150	120	605		Silicified metacongl. w 0-2" th discontinuous qtz veinlets surrounding 5-10 m th rhy. dike trend N25W
151	83	90	y	Silicified, chloritic wall of pit
151	119	0.299 opt	y	30' , W-trending adit w ml/az and qtz veins in altered intrusive rock
152	82	25		Fe-st maroon porphyry

TABLE 2- ROCK CHIP GEOCHEMISTRY

Map No.	R No.	Au (ppb)	m-s	Description
153	LM02	160		Felsic porphyry
154	LM03	30		Sheared porphyry w fe-st
155	LM04	10		Dacite porphyry
156	LM05	70		Mn-st dacite porphyry
157	LM06	5		Rhyodacite porphyry
158	LM07b	10		Dacite porphyry
159	LM07	5		Mn-st rhyolite porphyry
160	211L	20		Fe-st dike
161	40	15	y	Silicified rock w fe oxides and trace of chrysocolla
161	41	10	y	Silicified argillite w chrysocolla
161	42	< 5		Silicified argillite w fe oxides along fracture
161	43	< 5	y	Argillic altered rock
161	44	55	y	Silicified argillite w az, ml, chr along fractures
162	LM14	5		Rhyolite porphyry
163	LM13	25		Rhyolite porphyry
164	LM12	5		Gray feldspar porphyry
165	LM11	10		Dacite porphyry
166	195G	375		Fe-st brecciated zone 8-10 m th in dacite(?)
167	60	< 5		Mn-st porphyry
168	177D	< 5		Fractured, Fe-stained zone in gray porphyry
169	196G	5		Fe-st dacite porphyry
170	9	5		Hornfelsed and silicified contact of rhyolite and argillite
171	10	25		Trenches E of shaft w slightly brecciated, mn-st rhyodacite(?)
172	11	10		Shaft on rhyodacite w fractures filled w Mn oxide
173	57	< 5		Altered porphyry
173	58	< 5		Sheared and altered Mn-st porphyry
173	59	< 5		Altered porphyry
174	176D	< 5		Qtz-veined shear zone in greenstone
175	175D	< 5		Pink porphyry
176	174D	< 5		Horizontally foliated tuff and siltstone
177	194G	< 5		Mn-st dacite porphyry
178	61	< 5		Silicified greenish rock w fe-st fractures
179	193G	< 5		Greenstone and lit green metatuff wi scattered very minor qtz veinlets segregated parallto fol. in greenstone

TABLE 2- ROCK CHIP GEOCHEMISTRY

Map No.	R No.	Au ppb	m-a	Description
180	192G	< 5		Sample over 60' of greenstone, mafic cg, and lt green metatuff. W very minor qtz veinlets
181	12	< 5		Foliated, NW dipping metasiltstone w discontinuous qtz veinlets parallel to foliation
182	LM08	30		Rhyolite porphyry
183	LM09	5		Rhyolite porphyry
184	173D	< 5		Sheared argillite, tuff, and volc. conglomerate
185	LM10	5		Silicified greenstone
186	172D	30		Fe-stained, Crushed pink porphyry
187	171D	< 5		sheared argillite
188	197G	< 5		Yellow-orange-st rhyolite interlayered w minor argillite
189	170D	< 5		Sheared argillite with 1" qtz vein
190	169D	< 5		Fe-stained pink feldspar porphyry
191	168D	< 5		Septum of Argillite surrounded by porphyry
192	198G	35		Rhyolite porphyry
193	8	< 5		Silcified, jasparoidal, purple dike cutting argillite
194	7	1260		dump sample- Fe-stained qtz vein in sheared argillite
195	13	< 5		
196	6	230		Fe-st silicified metaconglomerate
197	204L	805		Sample from 30' silicified zone
198	205L	7480		Shaft w silicified pyritic metaconglomerate
199	203L	440		Fe-st metaconglomerate
200	202L	340		Fe-st silicified metaconglomerate in road cut
201	201D	210		20 ft across silicified, fe-stained zone
202	207G	670		Chip across 40' th fe-st silicified metaconglomerate
203	201L	6060		Adit in fe-st sheared silicified metaconglomerate
204	206G	670		Chip along 60' of 2-3 m th fe-st silic. Tac & Jmc along N-S, 80E dipping shear. Pit midway
205	200L	10		Pit in fe-st argillite
206	202D	1.276 opt		Fe-stained, silicified material, argillite, and qtz vein from several pits
206	208G	0.256 opt		1/2 from massive pyritic layers 0.5 m th in andesitic dike, and 1/2 from pyritic silicified zone
207	209G	<5		N-S trending flt w 1-2 m th zone of breccia and gouge
208	199L	430		Silicified metaconglomerate
209	200D	1410		Silicified, Fe-stained conglomerate grabbed from several pits and dump of one 30-ft shaft
210	212L	0.924 opt		Pit in fe-st silicified metaconglomerate
211	50	130		40' th silic shear w aabundant fe ox

Table 3- Mildred Peak Rock-Chip Multi-Element Analyses

Map No.	R. No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
6	103	35	24.8	<2	2	3740	<1	3	60	<2	38
20	26	0.508 opt	>200	<2	154	16	<1	36	9010	2	8
25	108	35	1.4	<2	<2	254	<1	5	24	<2	8
56	146G	1580	21.0	<2	<2	24	<1	1	412	<2	22
57	156D	285	9.4	<2	4	234	1	16	28	<2	4
66	3a	820	25.6	2	22	869	<1	1145	5440	8	714
66	3b	3000	62.8	2	26	876	<1	2180	954	18	20
67	142G	35	17.0	<2	4	1015	<1	46	44	<2	12
72	2a	60	0.4	6	<2	130	<1	11	8	<2	8
72	2b	40	5.0	4	<2	4030	<1	9	<2	4	18
85	4	70	1.0	2	<2	39	<1	50	52	<2	16
107	204D	100	4.2	<2	<2	353	<1	<1	2	<2	86
110	189D	100	4.8	<2	<2	895	<1	2	16	2	50
117	180D	105	0.6	<2	2	12	<1	<1	14	2	56
118	181D	360	39.6	2	<2	8550	<1	2	6	4	86
119	182D	< 5	0.4	<2	4	41	<1	1	28	<2	14
120	183D	< 5	0.2	<2	<2	2	<1	<1	12	<2	8
121	184D	< 5	0.2	10	<2	87	<1	1	14	2	56
122	179aD	35	0.4	<2	6	17	<1	<1	32	<2	76
122	179bD	< 5	<0.2	<2	4	10	<1	<1	8	<2	82
123	185D	10	<0.2	2	<2	6	<1	<1	4	2	34
124	186D	< 5	0.4	24	<2	7	<1	<1	24	18	46
125	187D	< 5	<0.2	4	<2	3	<1	<1	4	<2	6
126	178D	< 5	<0.2	<2	2	15	<1	<1	6	<2	106
127	62	35	0.2	<2	<2	4	<1	<1	22	<2	34
128	88G	130	<0.2	18	6	11	<1	<1	30	<2	106
129	29	710	33.0	2	<2	7750	<1	70	86	2	8
130	188D	80	15.2	6	<2	>10000	<1	8	38	<2	92
139	118	610	76.6	<2	20	4920	<1	569	14	4	16
143	75	844	122.0	<2	<2	14000	<1	71	16	4	46

Table 3- Continued

Map No.	R. No.	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
144	74	1290	159.5	<2	14	32200	<1	496	40	14	118
145	76	197	65.8	6	8	8100	<1	1595	12	22	48
147	79	682	34.4	2	10	8000	<1	94	48	14	52
151	83	90	43.2	6	<2	13600	<1	10	16	6	96
151	119	0.299 opt	125.0	10	4	>10000	<1	13	68	132	108
161	40	15	19.6	14	<2	1425	<1	7	22	2	84
161	41	10	20.4	<2	<2	2340	<1	<1	12	<2	94
161	43	< 5	13.8	8	<2	3850	<1	19	114	2	84
161	44	55	147.0	18	<2	9660	<1	367	42	6	62