



## **CONTACT INFORMATION**

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: S & O CLAIMS

ALTERNATE NAMES:  
AMETHYST HILL

YAVAPAI COUNTY MILS NUMBER: 325

LOCATION: TOWNSHIP 8 N RANGE 4 W SECTION 23 QUARTER NW  
LATITUDE: N 34DEG 01MIN 35SEC LONGITUDE: W 112DEG 38MIN 43SEC  
TOPO MAP NAME: SAM POWELL PEAK - 7.5 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:  
BARIUM  
SILICON QTZ SMOKY  
SPECIMENS  
LEAD OXIDE

BIBLIOGRAPHY:  
USGS SAM POWELL PEAK QUAD  
ADMMR S & O CLAIMS FILE

02/05/88

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

USA ARIZONA, Yavapai Co.  
Amethyst Hill

MMM882 Quartz, smoky

MMM Cerussite

MILS # 325

1-AKA

S+O CLAIMS (6/20)

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA *Umanapaa*  
~~MARICOPA~~ COUNTY  
EAST OF WICKENBURG  
BLUE TANK DISTRICT  
S & O CLAIMS

CARD # 1  
MM K830 Cerussite

*T 8 N R 4 W S 223*

*MILS # 325*

*1-AKA*

*S & O Claims (file)*

S & O CLAIMS

REFERENCES

YAVAPAI COUNTY  
T8N R4W Sec. 23

A1 Schmid Copper (file)

MILS Yavapai Index # 325

MINERAL AND PROSPECT FIELD VISIT DATA SUMMARY

Sheet 1 of 3

COMMODITIES Silver  
324 Al Schmid Copper  
MILS ID No. 325 Shaft DATE Visited 10/27/81  
ENGINEER Nyal Niemuth

INFORMATION FROM: \_\_\_\_\_

PROPERTY SUMMARY

I. MINE NAME S & O Claims

OTHER POSSIBLE NAMES Al Schmid Copper, Osmium Queen

II. LOCATION: T 8N R 4W SEC(S) 23 W 1/2 MINE DISTRICT Blue Tank

ELEV. 3,000 COUNTY Yavapai TOPO QUAD. Sam Powell Peak

DIRECTIONS Take Constellation Road Northeast out of Wickenburg till on Topographic Map.

MAP ATTACHED x

III. OWNERSHIP: NAME Widhan Drilling PHONE \_\_\_\_\_

ADDRESS: 618 Weaver, P.O. Box 2021, Wickenburg, AZ.

COMPANY NAME Widhan Drilling Co.

PERTINENT PEOPLE Jerome (Ken) Hancock

IV. PROPERTY AND HOLDINGS: 4 Unpatented Lode Claims

S & O #'s 1-4 AMC # 130,879, 137,047-9

V. HISTORY: FIRST LOCATED: Unknown OPERATED BY \_\_\_\_\_

DISCUSSION \_\_\_\_\_

VI. PAST PRODUCTION None likely, although a small handsorted shipment to the Wickenburg ore buying station is a possibility.

DISCUSSION: Some cerussite sixlings on barite crystals, specimens may have been produced.

VII. CURRENT STATUS: Prospect

VIII. WORKINGS: 1 - Adit Length Unknown

1 - Shaft Depth Unknown

Several Prospect Pits and Trenches.

IX. GEOLOGY: DEPOSIT TYPE: Veins VEIN STRIKE: See Comments

LENGTH: \_\_\_\_\_ WIDTH: \_\_\_\_\_ DIP: \_\_\_\_\_ AGE: Pre Cambrian

HOST ROCK: Granitic Gneiss AGE: \_\_\_\_\_ ORE: \_\_\_\_\_

CONTROL: Faults/Fissures

COMMENTS: See References & Remarks on last page.

X. MINEROLOGY: ECONOMIC MINERALS: Silver Halides and sulfosalts

GANGUE MINERALS: Barite, Fluorite, Quartz, Calcite, Cerussite, Siderite

GOSSAN MINERALS: Yes - Hematite, Limonite

ALTERATION: \_\_\_\_\_

DISCUSSION: \_\_\_\_\_

XI. METALLURGICAL OBSERVATIONS \_\_\_\_\_

XII. EQUIPMENT ON SIGHT: Field Jeep, 4WD Truck Mounted Auger Drill

XIII. SAMPLE DATA: SAMPLING TECHNIQUE #1 Grab Sample = .006 oz./ton Au, 4.05 oz/ton Ag  
 #2 Rock Chip / Channel Sample = .007 oz/ton Au, .45 oz/ton Ag

ASSAY CERTIFICATE ATTACHED: Yes

SAMPLES TAKEN BY: Nyal Niemuth NUMBER OF SAMPLES: 2

DATE: \_\_\_\_\_ LOCATION: See Map

DRILLING: Yes TYPE: Auger, Rock <sup>of Weathered</sup> TOTAL FOOTAGE: \_\_\_\_\_

WHEN DRILLED: \_\_\_\_\_

XIV. RESERVES: PROVEN \_\_\_\_\_ DIMENSIONS \_\_\_\_\_ PROBABLE \_\_\_\_\_

DEMENSION \_\_\_\_\_ POSSIBLE \_\_\_\_\_ DEMENSIONS \_\_\_\_\_

DISCUSSION Further Sampling and Mapping necessary to establish any dimensions and reserves.

XV. REFERENCES AND REMARKS The country rock is granitic gneiss intruded by diabase dikes that

generally have an east-west orientation and by quartz-pegmatite veins that have NE thru NW strikes. Three areas of mineralization were observed on the property. These were: Copper oxides with most of the quartz-pegmatite veins, quartz-fluorine calcite veins and a gossan capped hill that contains some silver. Where the pick and shovel symbol is on the topo map there exists a NE trending, gentle NW dipping vein which has been developed by a pit and an adit. This occurs in the general area of the intersection of several diabase dikes. The mineralization here is obvious due to hill's Red Gossan cap. Minerals found in the pit include: silver halides and sulphosalts, much barite and iron oxides. Quartz, Fluorite and a few light brown cerussite crystals showing twinning (up to 1" across). Sample #1 was a grab of everything in this pit.

The northern part of the property has 3 quartz veins which show multiple stages of deposition. All 3 show some oxidized box work. The eastern vein is generally a foot wide with much calcite and siderite in the area of the old timer's prospect pits. The center vein pinches and swells with widths up to 8 feet. It commonly contains stringers of purple, green and clear fluorite and minor barite, and is brecciated in some areas. Due to lack of time little of the western vein was walked.

Much of the western part of this property contains quartz-pegmatite veins that show copper oxides. Sample #2 was cut in a trench across one of these veins.

RECOMMENDATIONS: The generally favorable results of the grab sample at the gossan hill would dictate further sampling there. The adit should be explored, mapped and sampled. In an effort to give some dimension/Grade to the mineralization there. Further work will depend on the results of that examination.

The veins to the north, although they appear to contain only gangue minerals, should be sampled along their strike lengths to determine what if any precious metal mineralization occurs. Again the results of this stage will decide whether further work should be done.

If sampling and/or clean up operations uncover more of the cerussite crystals on barite, such material should be hand sorted and saved. Although the amount of it may be small it would have a high value to mineral collectors.

S & O CLAIMS

YAVAPAI COUNTY

NJN WR 9/18/81: The Widham Drilling Company has located the S & O #1-4 claims in Yavapia County. Reportedly they have numerous veins of varying mineralization on the property. They have asked me to visit in October to explain the geology.

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NJN WR 12/30/81: Visited Widhan Drilling Company S & O #1-4 claims. A separate report will be written.

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NJN WR 3/11/83: Dick Morris, 1894 E. Bendix, Tempe, Az. 85283, Ph- 839-9081 visited and reported he was interested in mining cerussite mineral specimens at the S & O claims. He was provided with file data and owner information.

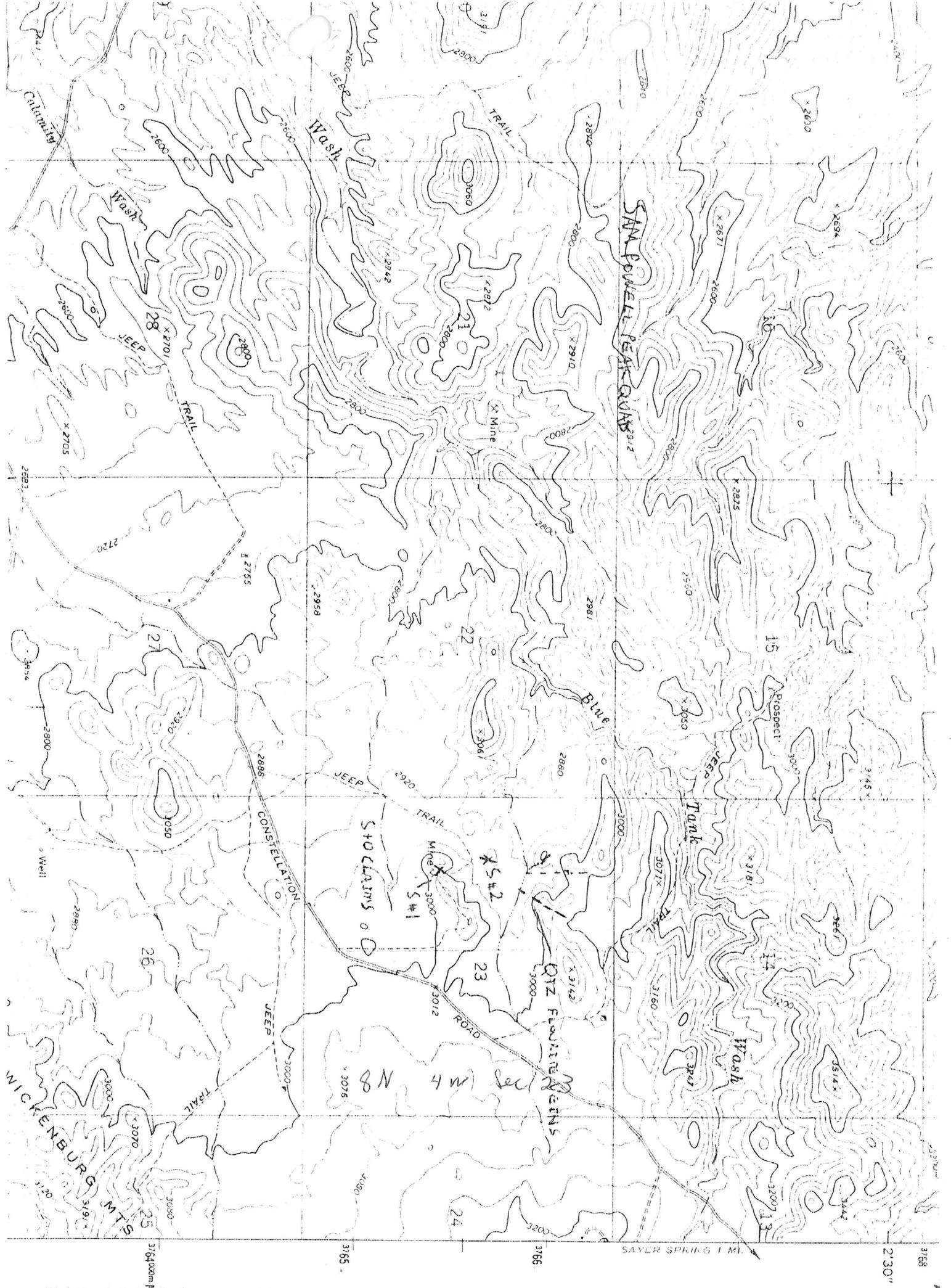
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NJN WR 9/25/87: Fred Bodine (card) reported that he has just staked claims on Amethyst Hill (S & O Claims file) Yavapai Count. He is planning to joint venture the property with a Canadian company and so some exploration drilling there.

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NJN WR 11/20/87: Fred Bodine (card) visited and reported that he is drilling two 150' holes on the S & O (file) Yavapai County. The samples are being sent to Sparks, Nevada to be assayed.

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STATE OF ARIZONA  
DEPARTMENT OF MINERAL RESOURCES  
MINERAL BUILDING, FAIRGROUNDS  
PHOENIX, ARIZONA 85007

602/255-3791

February 11, 1982

*File  
S & O Claims*

Ken Hancock  
P.O. Box 2021  
Wickenburg, Arizona

Dear Ken,

Enclosed is a brief report based on my visit to the S and O claims. The report includes pertinent data, a brief geologic description, and some general work suggestions for the property. A copy of it has been added to our files. I would appreciate it if you would send me a copy of your claim map to add to the file.

Upon further examination of the material taken in the grab sample I discovered a couple light brown cerrusite crystals on the barite. Although small, they reminded me of material I have seen sold for specimens. If you can find more of this material with cerrusite crystals a  $\frac{1}{2}$ " or larger, contact me and I will give you a list of people who would be interested in buying them.

Also, if you have any questions regarding the work suggestions or need help evaluating the results, I would be glad to help.

Good luck with the property.

Sincerely,

Nyal J. Niemuth  
Mineral Resource Specialist

NJN:jc  
Enc.





STATE OF ARIZONA  
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