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PRINTED: 07-16-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: IRON DOOR

ALTERNATE NAMES:

SPIKE HILLS
OLD IRON DOOR

COCHISE COUNTY MILS NUMBER: 612

LOCATION: TOWNSHIP 13 S RANGE 25 E SECTION 17 QUARTER NW
LATITUDE: N 32DEG 18MIN 20SEC LONGITUDE: W 109DEG 49MIN 06SEC
TOPO MAP NAME: WILLCOX NORTH - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

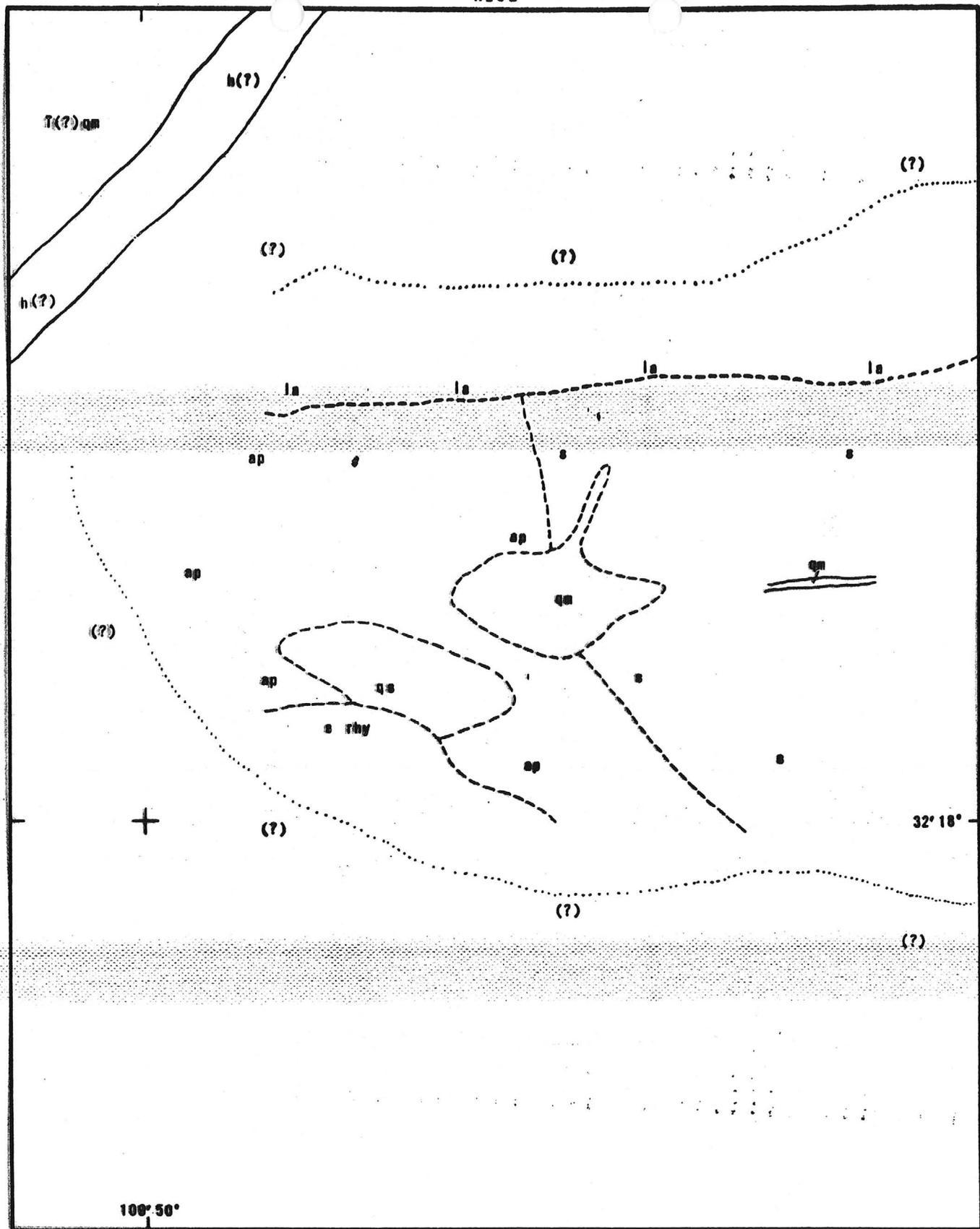
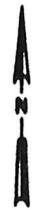
COMMODITY:

IRON HEMATITE
COPPER
GOLD LODE

BIBLIOGRAPHY:

HARRER, C.M., 1964, USBM IC 8236, P. 24
ADMMR IRON DOOR FILE

R25E

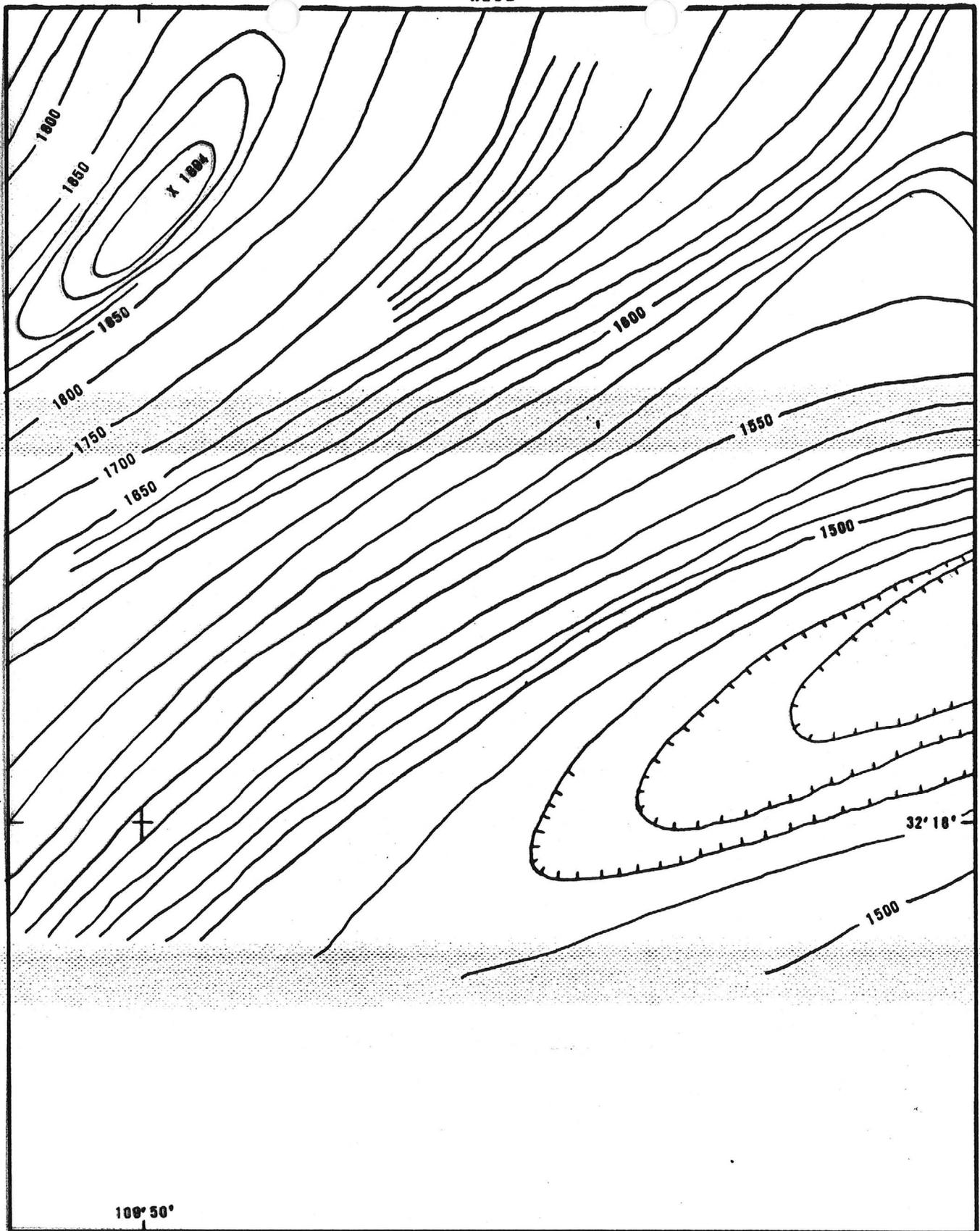


Wilson, J.C., 1967, Suballuvium geology of the Spike-E Hills, Cochise County, Arizona: GRD.

SUBALLUVIUM GEOLOGIC MAP OF THE SPIKE-E HILLS AREA COCHISE COUNTY, ARIZONA

Scale 1" = 2000'

R25E

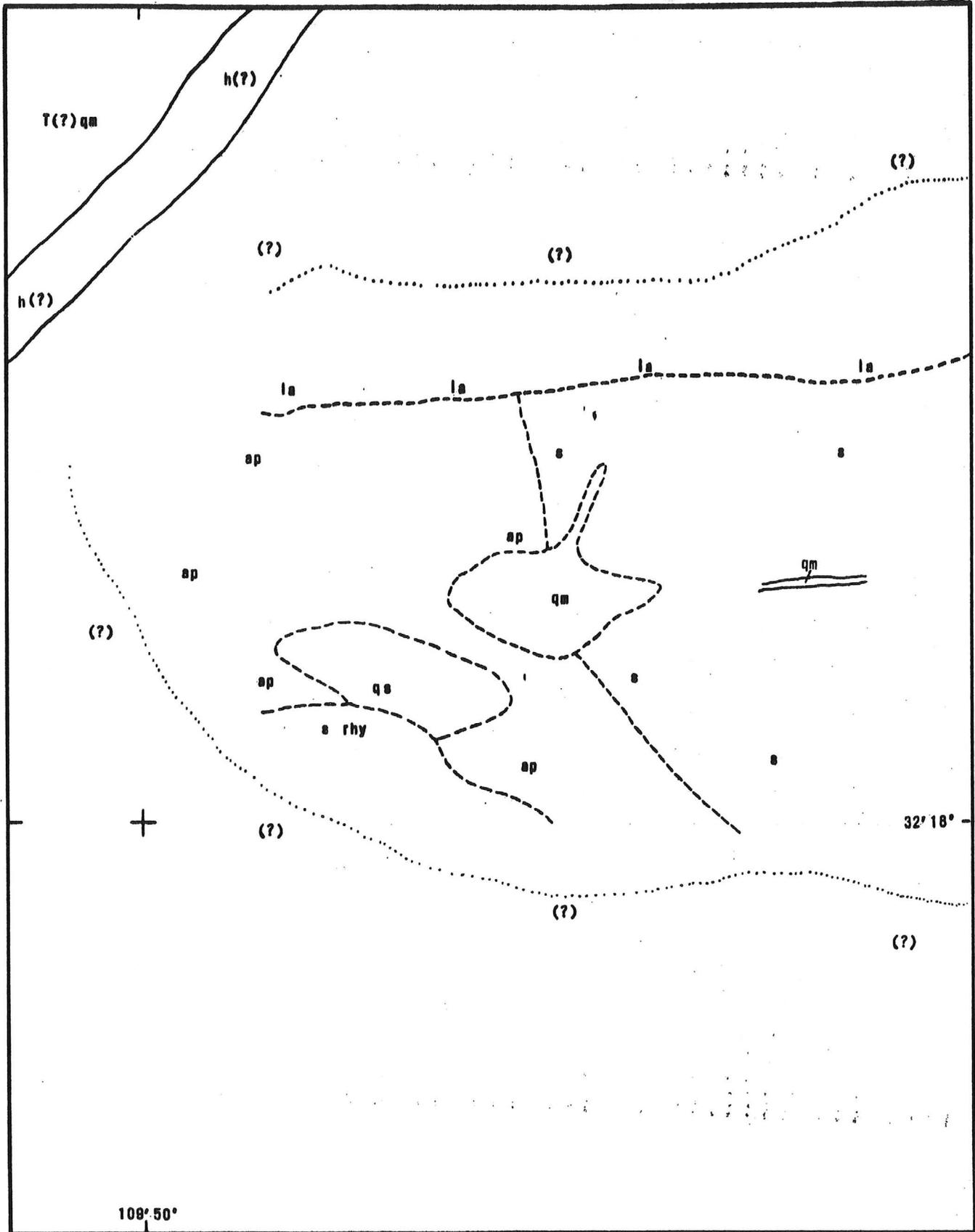


Dempey, W., and Hill, M., 1963, Aeromagnetic map of parts of the Willcox and Luzena quadrangles, Cochise County, Arizona: USGS, map GP-418.

**AEROMAGNETIC MAP OF THE SPIKE-E HILLS AREA
COCHISE COUNTY, ARIZONA**

Scale 1" = 2000'
Contour interval 10 and 50 gammas

R25E

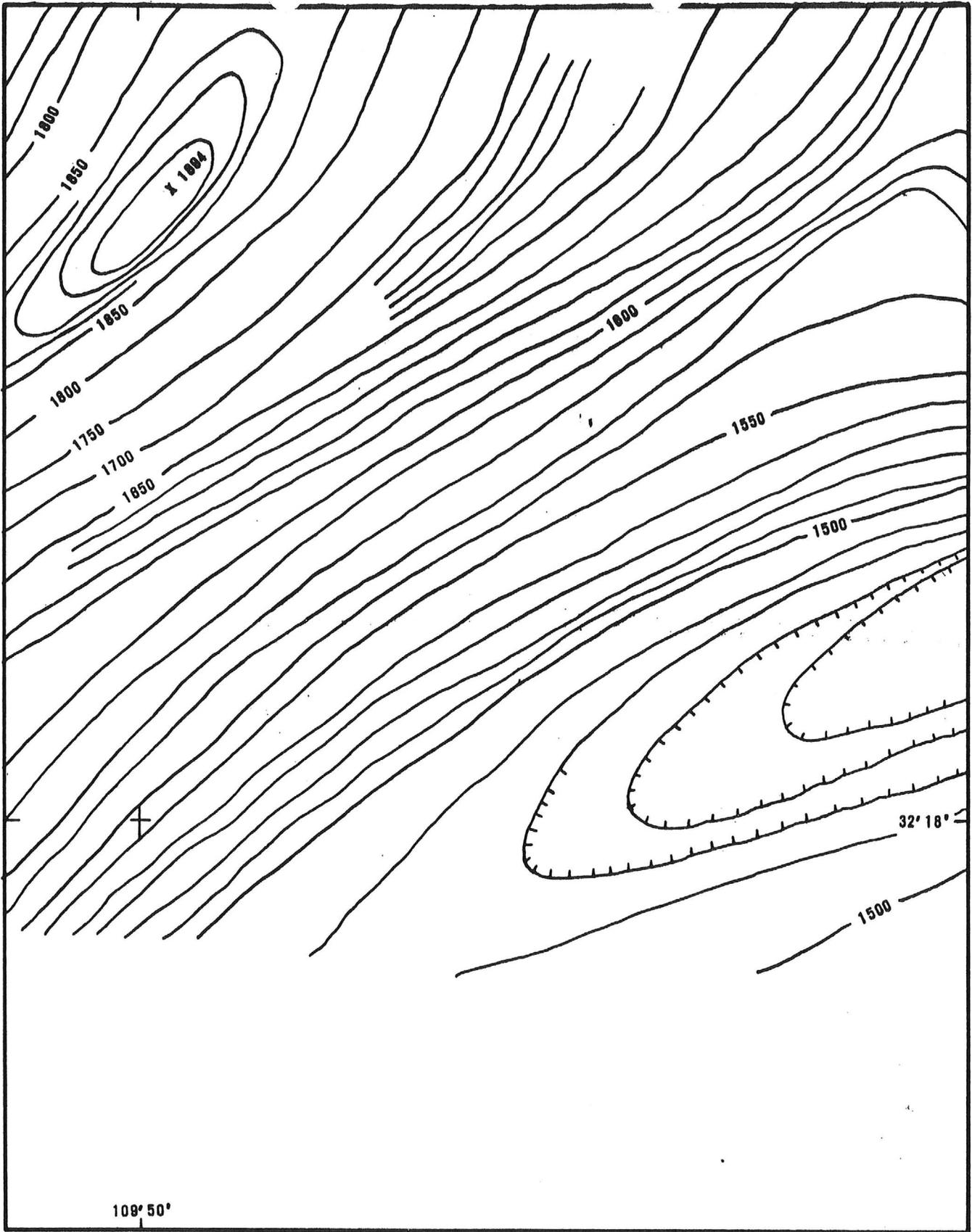


Wilson, J.C., 1967, Suballuvium geology of the Spike-E Hills, Cochise County, Arizona: GRD.

SUBALLUVIUM GEOLOGIC MAP OF THE SPIKE-E HILLS AREA COCHISE COUNTY, ARIZONA

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Dempsey, W., and Hill, M., 1983, Aeromagnetic map of parts of the Willcox and Luzena quadrangles, Cochise County, Arizona: USGS, map GP-418.

**AEROMAGNETIC MAP OF THE SPIKE-E HILLS AREA
COCHISE COUNTY, ARIZONA**

Scale 1" = 2000'
Contour interval 10 and 50 gammas

IRON DOOR

COCHISE COUNTY

HM WR 4/8/88: Information on the Spike E. Hills copper deposit, Cochise County was obtained for inclusion in the file. The deposit is reported to contain 63 million tons averaging .38% Cu as sulfide. The described alteration pattern is also suggestive of the current model for Acid-Sulfate type disseminated gold deposits. Previous exploration at this prospect was completed at a time when precious metal occurrences of that type were both subeconomic and largely unrecognized. Further study of this prospect should be encouraged.

MILS 612

SPIKE-E HILLS

COCHISE COUNTY, ARIZONA

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APR 18 1988

DEPT. OF MINES &
MINERAL RESOURCES

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PORPHYRY COPPER PROBABILITY STUDY
OCCURRENCE DESCRIPTION OUTLINE

I. SULFIDE SYSTEM

A. Name Spike-E Hills County Cochise State Arizona*B. Length: Exposed 2,400 ft; Extrapolated 7,000 ft.*C. Width: Exposed 600 ft; Extrapolated 4,500 ft.*D. Azimuth of Elongation 70 °; Sulfide Concentration 1-5 Vol. %

*E. Capping (circle one for each)

Oxidized Capping	<u>yes</u>	no		no data
Leached Capping	<u>yes</u>	no		no data
Intensity in Outcrop	<u>subtle</u>	apparent	obvious	no data
Color	<u>red-brown</u>	maroon	bleached-yellow	no data

*F. Absolute Age (m. y.); Min. _____; Max. _____; Average _____
Relative Age (bracket): _____

*G. Drillholes

1. Maximum Depth 929 ft.2. Comments SEH-5 BC MC*H. Geologic Setting (age, host rocks, intrusive relationships, oldest to youngest formations, contacts, alteration halo to core zone).

(See back of page)

I. Reference:

(See back of page)

*Note: See Rules and Conventions.

Sulfide System Name Spike-E Hills

II. Diagnostic Reconnaissance Characteristics

A. District Prospect Zoning Outside of Sulfide System

1. Prospects/Mines

Metal/Type	Min. Diam. (feet)	(M) Mines (P) Prospects	Rock Types	Deposit Types
Cu				
Pb-Zn				
Ag-Au				
Mn				
Other				
Other				

B. Dike Swarms

Rock Types	quartz monzonite			
Length (ft.)	nd			
Width (ft.)	nd			
Azimuth (°)	nd			
Age	intramineral?			
* Spatial Rel.	within system			
Contacts				
Other	covered			

*C. Important Regional Structures (other than dike swarms)

Type	Normal fault		
Length	15,000' +		
Azimuth (°)	315		
Recognition Factors	inferred from IP, aeromag		
Age	postmineral		
Spatial Rel.	limits system on SW		
Contacts			
Other	Boundary fault		

*D. Other Reconnaissance: (See back of page)

Sulfide System Name Spike-E Hills

III. Center of Mineralization (zone of best copper)

A. Name _____

*B. Copper Mineralization

1. Type	*%	Av. Grade	Rock Type	*Other Data
a. Primary X		0.3	quartz specularite, schist q. m.	enargite
b. Enriched X		0.5-0.05	"	covellite coating pyrite
c. Skarn (replacement)				
d. Oxide				
e. Mixed				

2. Current Mineral Inventory

a. Tons 63,113,000 ; Av. Grade 0.38 %; Cutoff 0.2 %

b. Other Credits _____

3. Past Production

a. Tons none ; Av. Grade _____ %; Cutoff _____ %

b. Other Credits _____

C. Cover

1. 10 % Exposed at time of discovery

2. Projected Post Mineral Cover

a. Thickness (ft.) 0-450', average 240'

* b. Formations Qal, latite, andesite

* c. Estimated Δ elevation of base of cover to top of cc blanket (ft.) _____
300' (base of oxidation is about 600')

3. Premineral Cover

a. Thickness (ft.) 160' locally unmineralized

b. Formations Precambrian schist

GEOLOGIC SETTING

Precambrian (Pinal?) sericite schist intruded by Precambrian granite and overlain by T-K andesite-dacite porphyry with thick Cretaceous rhyolitic to andesitic agglomerate unit at the base, and these are intruded by small T. quartz monzonite plugs associated with a larger stock of T. quartz monzonite. Cover consists of T. latite, andesite and Qal.

ALTERATION

Unaltered rock and propylitically altered areas with muscovite-sericite-chlorite-pyrite surround a more definite area (3/4 mi. diameter) 2,000' wide of pyrophyllite-kaolinite-alunite-pyrite which encloses a small intensely altered area of quartz-hematite without pyrite.

Vertical zoning appears to be abrupt, with the lateral zones, described above, wrapped under the central core of quartz-hematite.

Secondary silica-quartz is present in all of the altered area.

REFERENCES

- Jinks, J. E., 1965, Spike-E Hills examination, Cochise County, Ariz.: BCM-AD (geol. 1" = 1 mi).
- Reynolds, R. W., 1971, A review of the Spike-E Hills, Circle I Hills area, Cochise County, Ariz.: BCM-AD.
- Wilson, J. C., 1967, Solfataric alteration, Spike-E Hills, Cochise County, Arizona: KES-GRD memo to T. W. Mitcham (Nov. 13).

The only outcrop consists of shattered silicified rhyolite with abundant specularite in fractures.

In this system chalcopyrite is essentially absent.

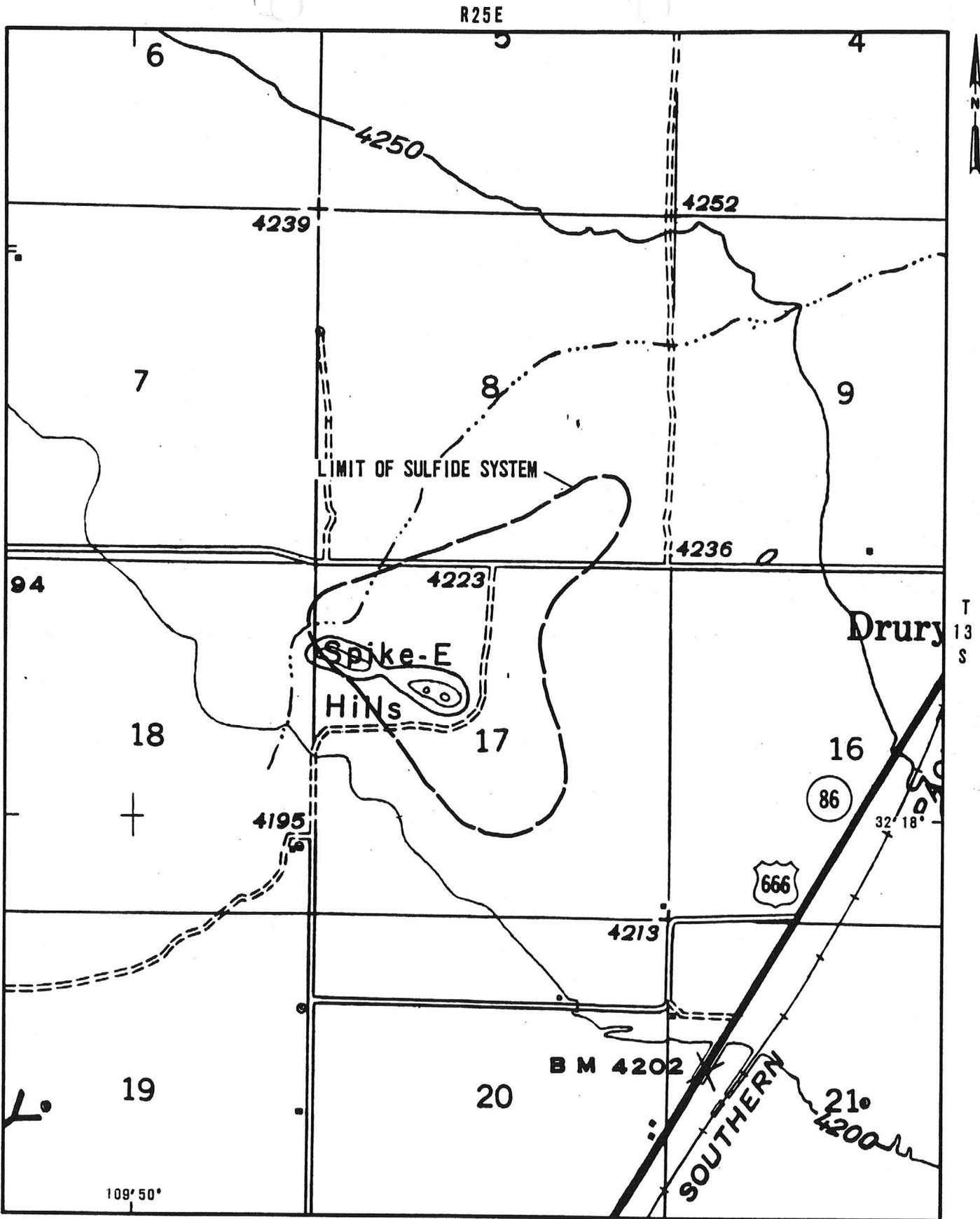
There are no geochem anomalies in metals besides copper-moly.

SPIKE-E HILLS
COCHISE COUNTY, ARIZONA

EXPLANATION

Suballuvium Geology

s rhy	Silicified rhyolite	} age relationship uncertain	} TERTIARY(?)
h(?)	Postulated magnetite-bearing hornfels		
qs	Quartz-specularite rock		
la	Postmineral latite and andesite		
qm	Quartz monzonite plug and dikes		
T(?)qm	Quartz monzonite		
ap	Andesite porphyry with thick agglomerate unit at the base	} CRETACEOUS	
s	Schist	} PRECAMBRIAN	
 (?) limit of postulated geology		



Topography from the Willcox quadrangle, Arizona: USGS, 1958.

TOPOGRAPHIC MAP OF THE SPIKE-E HILLS AREA
COCHISE COUNTY, ARIZONA

Scale 1" = 2000'

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Old Iron Door Property

Date January 10, 1958

District Cochise County

Engineer Axel. L. Johnson

Subject: Field Engineers Report. Information from J. W. Wingfield & L. H. Shoemaker Not Visited
Property visited by Field Engineer about 2 years ago.

Location: 6½ miles N. of Willcox, Ariz. Drive 4½ miles NE from Willcox on Highway #86. Turn left (West) and drive 2 miles to the property.

Number of Claims: A patented ½ section (320 acres).

Owner: ✓ Mrs. Georgia D. Deebelcher, Willcox, Ariz.

Operators: ✓ Basic Minerals Inc., 519 E. Thomas Road, Phoenix, Ariz. L. H. Shoemaker, Mgr.

Principal Minerals: ✓ Iron Ore.

Present Mining Activity: Exploration ^{of} ~~for~~ iron ore deposit.

Geology & Mineralization: On last visit to the property, about 2 years ago, field engineer found a vein of hematite ore, about 4 ft. wide and dipping about 45°, which had been opened up to a depth of about 15 or 20 ft. by an inclined shaft. Country rock appears to be porphyry.

Ore Values: Not determined as yet.

Ore in Sight & Probable: Not determined as yet.

Milling & Marketing Facilities: Operators plan to ship the ore to the Lone Star Steel Co., Longview, Texas, and states they will accept from 100 to 200 tons daily.

Present Mining Operations: Exploration work has been done under contract with the Aldo-Verde Co., Phoenix, Ariz. - J. W. Wingfield, Mgr. Following work has been to date;
(1) Stripping overburden, moving about 25,000 tons of rock
(2) Diamond drilling attempted, but not successful on account of the character of the rock. Operations discontinued after 40' of drilling.

Proposed Plans: Operators expect to continue the exploration work with churn drilling, Aldo-Verde Co., contractors for the work.