CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the Cambior Exploration USA Inc. records

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

K604

WESTMONT
MINING INC.

Prospect and Submittal Report

(Hearst Mine)

Date: _____

Property Name: WINCHESTER MTN. JASPEROID

Township: 13S

County, State: Cochise, Arizona

Range: 23E

Date Examined: _____ By: WSD

Section: sec. 31

Reply and Date: _____

Quadrangle Name: _____

AMS Sheet: _____

Summary, Conclusions, Actions Recommended: Warrants further work if siliceous ore poses no problem to production

Location and Accessibility: Good to fair access

Owners and Intermediaries, Address, Phone, Zip: _____

Property Description, Status: _____

Terms: _____

Previous Exploration and Production: Several 1000 tons from open cuts - siliceous Au-Ag replacement

General Geology: _____

Geology of Prospect*: High contorted, faulted limestone of Pz-age, slivers of Peb(?)

Mineralization* (Primary and Secondary): Silica, jarosite, minor py., hematite. Some Cu string; Mn mineralization on some fractures.

Geochem Results: Good Au, low Ag. Ore very siliceous, probably flux-ore.

Exploration Recommended: Test leachability.

Attachments: _____

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

(Hearst Mine)

Property Name: Winchester Mtn. Jasperoid

County, State: Cochise, Az

Date Examined: _____ By: WJD

Reply and Date: _____

Date: _____

Township: 13S

Range: 23E

Section: sec 31

Quadrangle Name: _____

AMS Sheet: _____

Summary, Conclusions, Actions Recommended: WArrents further work if siliceous ore posses no problem to production

Location and Accessibility: good to fair access

Owners and Intermediaries, Address, Phone, Zip: _____

Property Description, Status: _____

Terms: _____

Previous Exploration and Production: Several 1000 tons from opencuts – siliceous Au-Ag replacement

General Geology: _____

Geology of Prospect*: High contorted, faulted Is of Pz-Age; slivers of PCb(?)

Mineralization* (Primary and Secondary): silica, jasoite, minor py., hematite. Some Cu stng., Mn mineral. on some fracs

Geochem Results: Good Au, low Ag. Ore very siliceous, probably Flux-ore.

Exploration Recommended: Test leachability.

Attachments: _____

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.

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

DATE October 8, a983

FOR Nicor

DATA SHEET

SAMPLE NO.	PPM GOLD	PPM SILVER	PPM COPPER	PPM LEAD	PPM ZINC
K- 601	.05	2.6			
602	*	1.6			
603	*	<.1			
604	*	<.1			
605	.08	3.0			
606	1.2	4.5			
607	.03	0.80	Winchester Mtns.		
608	.06	<.1			
609	*	<.1			
610	.10	<.1			
611	.51	2.4	Ray Pipe		
612	*	1.2			
613	*	<.1			
614	.06	<.1	E. Swiss Helms		
615	*	0.2			
616	.86	0.2			
617	*	<.1			
618	*	0.2			
619	.05	<.1			
620	*	<.1	Geronimo		
621	*	<.1			
622	.03	<.1			
623	*	<.1			
624	.07	<.1			
625	*	0.2			

* less than 0.01 PPM

Cochise

WINCHESTER ROADLESS AREA, ARIZONA

By WILLIAM J. KEITH,[1] U.S. GEOLOGICAL SURVEY, and
TERRY J. KREIDLER, U.S. BUREAU OF MINES

SUMMARY

Results of geologic, geochemical, geophysical, and mining activity and production surveys in the Winchester Roadless Area in 1981 indicate little promise for the occurrence of metallic and nonmetallic or energy resources in the area. Volcanic rocks cover the area to a thickness of 1000 to 2000 ft and possibly more, thus preventing inspection and evaluation of the underlying rock.

CHARACTER AND SETTING

The Winchester Roadless Area, located in northwestern Cochise County, Arizona, consists of 22 sq mi of Coronado National Forest in the Winchester Mountains. The area lies approximately 15 mi northwest of Willcox, Arizona. Access to the boundary of the roadless area by county and ranch roads (with permission from the owners) is good on all but the west side, where roads generally end more than 1 mi from the boundary. Within the area the terrain is steep and rugged, with many vertical cliffs. Altitudes in the area range from about 5000 ft on the eastern flank of the mountains to 7631 ft at the summit of Reiley Peak. Heavy growth of manzanita inhibits accessibility at higher altitudes. Intermittent streams have incised steep-walled canyons into the volcanic rocks.

This study consisted of (1) field checking and modification of the existing geologic maps of the area (Creasey and others, 1961, 1981), (2) field examination of all mines, prospects, and mineralized areas in and adjacent to the Winchester Roadless Area, (3) sampling of bedrock and stream sediments from drainage basins for geochemical analysis; and (4) examination and interpretation of available aeromagnetic and gravity data. The results have been published by Keith and others (1982).

Rocks of the Winchester Roadless Area consist of a sequence approximately 1000 to 2000 ft thick of silicic ash-flow tuffs and lava flows capped by basaltic lava flows. The silicic volcanic rocks are assigned to the Galiuro Volcanics (Cooper and Silver, 1964). The Galiuro Volcanics is divided into four members, two of which occur in the Winchester Roadless Area. The lower or latite member consists of undifferentiated lava flows and tuffs that range from latite to rhyolite in composition. This member is limited to the central and eastern parts of the area and dips approximately 30° northwest. The upper or rhyolite member consists of rhyolitic lava flows, dikes, and ash-flow tuffs. The rhyolite member is found in the central and western parts of the area and appears to thicken to the west. The Galiuro Volcanics, considered to be of Oligocene and Miocene age (Creasey and Krieger, 1978) is capped by younger basalt which consists of black vesicular lava flows and is confined to the central and western parts of the roadless area.

MINERAL RESOURCES

Twenty-eight sample sites were selected as representative of the drainage basins in and around the Winchester Roadless Area. The sites were sampled for rock, stream sediment, and panned concentrates. Samples were analyzed for 31 elements by six-step semiquantitative emission spectrography and for two additional elements (zinc and gold) using atomic absorption or colorimetry. The results of the analyses indicate a generally high concentration of lanthanum, niobium, lead, and tin in the panned concentrates. The lanthanum and niobium occur in zircon, sphene, and other minerals that weather out of the Galiuro Volcanics and have no significance for the assessment of resource potential. The tin and lead anomalies, which are from drainage basins near the boundary of the roadless area, are probably related to human contamination in areas where springs have been developed and where there has been a large amount of human traffic (hunters, picnickers, or ranchers).

Geophysical data (gravity, magnetic, and audiomagnetotelluric) indicate no significant features that

[1]With contributions from Ronny A. Martin, USGS.

can be confidently interpreted as being directly related to mineral deposits. The Galiuro Volcanics have generally lower magnetic susceptibilities than the overlying basalt. A magnetic high along the southern border of the roadless area possibly reflects an underlying extension of the Precambrian intrusive rocks exposed to the south that have high magnetic susceptibility but are not known to be mineralized. A broad magnetic low in the northwest corner of the roadless area probably reflects a thin basaltic cover over a thick section of rocks with low magnetic susceptibility (probably an extension of the Galiuro Volcanics). Therefore, these magnetic anomalies do not in themselves indicate the presence of significant mineralization. Reconnaissance gravity data show a broad gravity low over the central roadless area, which probably indicates the area where ash-flow tuffs and lava flows are at their maximum thickness. Resistivity contrasts between audio-magnetotelluric soundings just south of the roadless area suggest the possibility of a northwest-trending fault along the west face of the Winchester Mountains. Low resistivities at depth for two soundings and an entire low-resistivity section for another sounding plus low magnetic intensity suggest that the rocks may have been altered along the postulated fault, although there is no surface evidence of mineralization.

The Winchester mining district lies approximately 3 to 4 mi south of the southern boundary of the roadless area. The district was originally worked for silver in the 1870's, but has had little or no activity since the 1920's (Keith, 1973). Gold mineralization southeast of the roadless area occurs in a sliver of Paleozoic limestone in fault contact with Precambrian granite but geologic evidence indicates that this feature does not extend into the roadless area at the surface. Geophysical data suggests that it may extend into the roadless area in the face, buried under a thick pile of Tertiary volcani

A search of the Cochise County records revea no mining claims have been located in or near t less area. The only prospect in the roadless are small pit near the center of sec. 17, T. 12 S., R. 2 mineralization was evident in the pit, which h dug into volcanic rock.

Pan concentrates of stream-sediment sample near the Winchester Roadless Area assayed no cant gold and silver values.

Geologic, geochemical, geophysical, and min prospects surveys of the Winchester Roadless A dicate that there is little promise for the occurr any metallic or nonmetallic resources.

REFERENCES

Cooper, J. R., and Silver, L. T., 1964, Geology and ore deposi Dragoon quadrangle, Cochise County, Arizona: U.S. G Survey Professional Paper 416, 196 p.

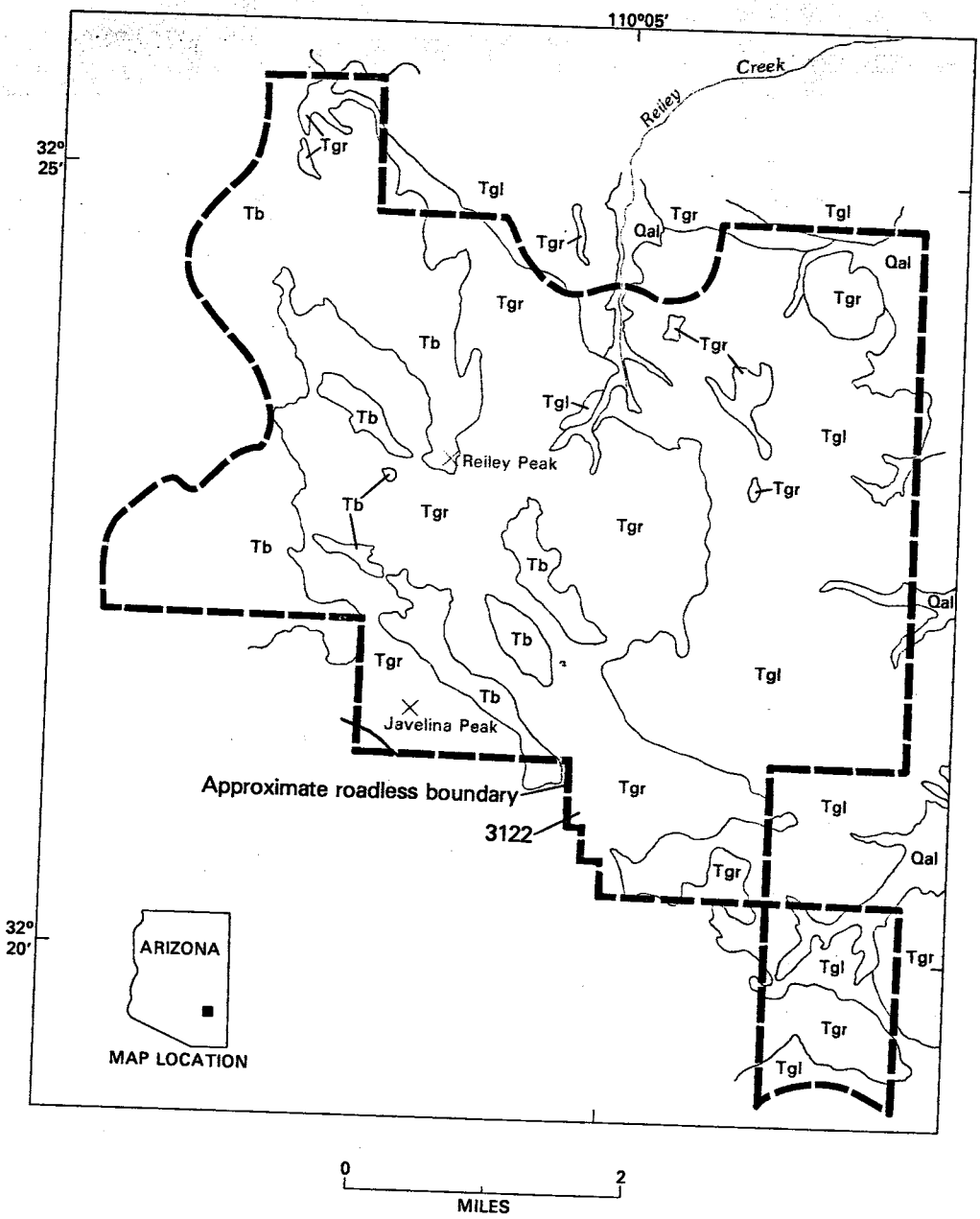
Creasey, S. C., Jackson, E. D., and Gulbrandsen, R. A., 196 naissance geologic map of parts of the San Pedro and A Valleys, south-central Arizona: U.S. Geological Survey Investigations Field Studies Map MF-238, scale 1:125,00

Creasey, S. C., Jinks, J. E., Williams, F. E., and Meeves, H. Mineral resources of the Galiuro Wilderness and contigu ther planning areas, Arizona, *with a section on* Aeron survey and interpretation, *by* W. E. Davis: U.S. G Survey Bulletin 1490, 94 p.

Creasey, S. C., and Krieger, M. H., 1978, Galiuro Volcanics Graham, and Cochise Counties, Arizona: U.S. Geological Journal of Research, v. 6, no. 1, p. 115–131.

Keith, S. B., 1973, Index of mining properties in Cochise Arizona: Arizona Bureau of Mines Bulletin 187, 98 p.

Keith, W. J., Martin, R. A., and Kreidler, T. J., 1982, Mineral potential of the Winchester Roadless Area, Cochise Cou zona: U.S. Geological Survey Open-File Report 82-1028, 7



EXPLANATION

Qal	Alluvium (Holocene and Pleistocene)
Tb	Basalt (Tertiary)
Tgr	Rhyolite member, Galiuro Volcanics (Miocene and Oligocene)
Tgl	Latite member, Galiuro Volcanics (Miocene and Oligocene)
———	Contact
———	Fault

Figure 36.—Winchester Roadless Area, Arizona.

- See Coronado N.F. map for access

Winchester District - Dragoon Quad - Cochise Co., AZ

- Centers in the Severin Canyon
- LS replaced by jasperoid
- Shear zones in PE granite are also silicified
- erratic concentrations of Ag
- Highest Ag values in yellow "oil" stained jasperoid
- Veins cutting LS in northern part of district that carry base metal sulfides - No Ag values
- NE corner jaspercoids in an echelon pattern Ag reportedly low values

Sam Powell Blown up
Dragoon 15'
Winchester 15'

Carlise

9/30/93

Sec. 32 T 23E
Sec. 31
Sec. 32 T13S R 23E

A2 State Land Office
Winchester Mtns. Ispenoid
Area

- expired - Sec 31
- expired - Sec 32

} check this out

No current permits or Applications

SKYLINE LABS, INC.
P.O. Box 50106 • 1700 West Grant Road
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UGH 001
April 22, 1982
PAGE 2

ITEM	SAMPLE NO.	Au ppm		Ag ppm		Cu ppm	Pb ppm
26	G178	<.02		.6	*26.8	<5.	155.
27	G179	.46		>350.0		520.	11000.
28	G180	.46		330.0		45.	470.
29	G181	.72		>350.0	*19.9	110.	370.
30	G182	.07		.8		<5.	5.
31	G183	5.00		2.2		5.	10.
32	G184	.75		<.2		<5.	5.
33	G185	.92		.4		5.	<5.
34	G186	.05		.2		<5.	<5.
35	G187	.30		.2		<5.	5.
36	G188	.03		<.2		<5.	5.
37	G189	.53		<.2		<5.	5.
38	G190	<.02		.2		<5.	<5.
39	G191	<.02		<.2		<5.	<5.
40	G192	.03		<.2	%T	10.	5.
41	G193	.12		80.0	2.34	10.	490.
42	G194	.08		30.0	.88	60.	230.
43	G195	.82	.024	70.0	2.04	<5.	75.
44	G196	<.02		4.6		<5.	15.
45	G197	.88	.026	330.0	9.64	300.	1300.
46	G198	<.02		.4		560.	<5.
47	G199	.76		6.0		20000.	15.
48	G200	.26		5.0		14000.	5.
49	G201	2.90		120.0		47000.	1900.
50	G202	.83		45.0		2400.	1800.

Want also assayed for Zn, Ag %.

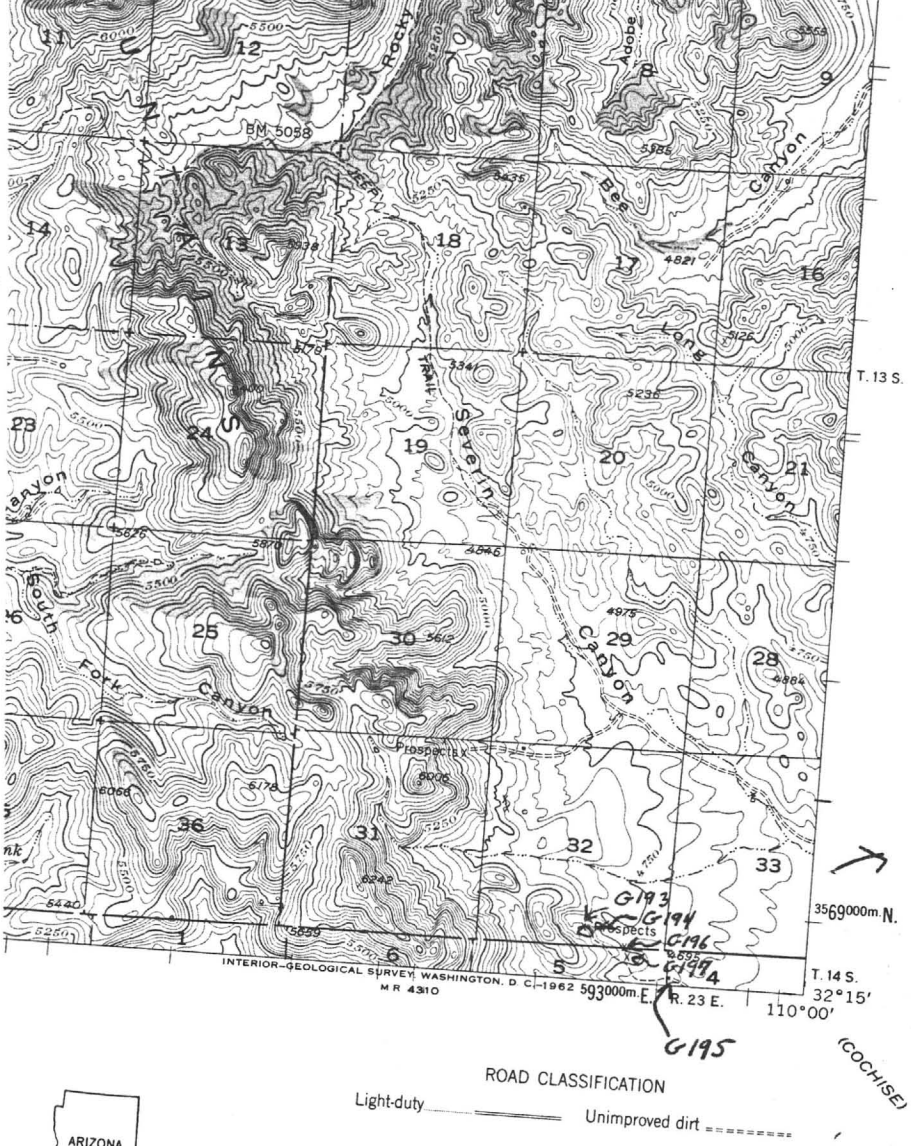
Winchester Mtns.

should fire assay

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122



ROAD CLASSIFICATION

Light-duty ═══ Unimproved dirt - - - - - -

QUADRANGLE LOCATION

WINCHESTER MTS., ARIZ.

N3215—W11000/15

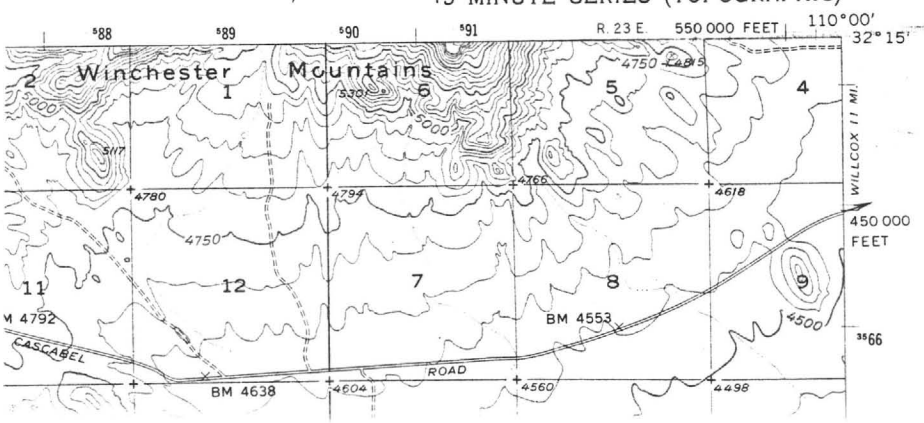
1957

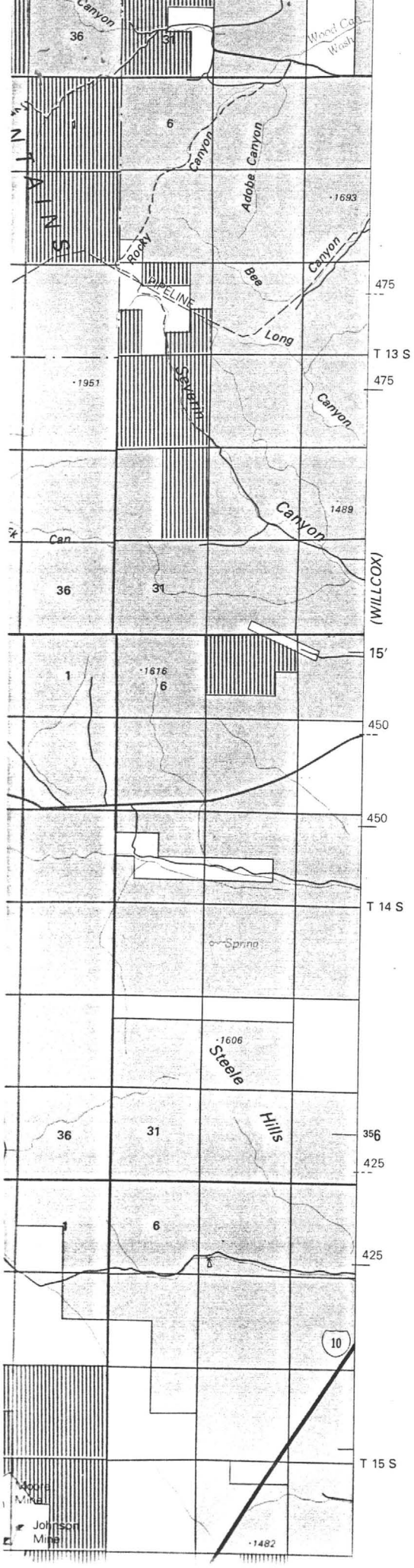
4048 IV (WILLCOX)

DRAGOON QUADRANGLE

ARIZONA—COCHISE CO.

15 MINUTE SERIES (TOPOGRAPHIC)





Tennessee Valley Authority	NONE
Patented Lands	
State Lands	
Water and Power Resources Service	NONE
Power Withdrawals and Classifications	
Federal Agency Protective Withdrawals	
Public Water Reserves	NONE
Department of Energy (DOE)	NONE
Oregon & California Lands (O&C Lands) Administered By US Forest Service	NONE
Radio & Air Facilities	NONE
Miscellaneous	NONE
State, County, City, Wildlife, Park and Outdoor Recreation Areas	
Acquired Lands (By Administering Agency)	NONE

MINERALS OWNED BY THE FEDERAL GOVERNMENT

Mineral Rights	*Symbol*
All minerals	
Coal only	NONE
Oil and Gas only	
Oil, Gas, and Coal only	NONE
Other	NONE
No symbol indicates no Federal minerals	

SKYLINE LABS, INC.
P.O. Box 50106 • 1700 West Grant Road
Tucson, Arizona 85703
(602) 622-4836

JOB NO. UGH 001
April 22, 1982

ITEM	SAMPLE NO.	Au ppm	Ag ppm		Cu ppm	Pb ppm
26	G178	<.02	.6		<5.	155.
27	G179	.46	>350.0	*26.8	520.	11000.
28	G180	.46	330.0		45.	470.
29	G181	.72	>350.0	*19.9	110.	370.
30	G182	.07	.8		<5.	5.
31	G183	5.00	2.2		5.	10.
32	G184	.75	<.2		<5.	5.
33	G185	.92	.4		5.	<5.
34	G186	.05	.2		<5.	<5.
35	G187	.30	.2		<5.	5.
36	G188	.03	<.2		<5.	5.
37	G189	.53	<.2		<5.	5.
38	G190	<.02	.2		<5.	<5.
39	G191	<.02	<.2		<5.	<5.
40	G192	.03	<.2	%T	10.	5.
41	G193	.12	80.0	2.34	10.	490.
42	G194	.08	30.0	.88	60.	230.
43	G195	.82	70.0	2.04	<5.	75.
44	G196	<.02	4.6		<5.	15.
45	G197	.88	330.0	9.64	300.	1300.
46	G198	<.02	.4		560.	<5.
47	G199	.76	6.0		20000.	15.
48	G200	.26	5.0		14000.	5.
49	G201	2.90	120.0		47000.	1900.
50	G202	.83	45.0		2400.	1800.

were also assayed for Zn, Ag, Cu.

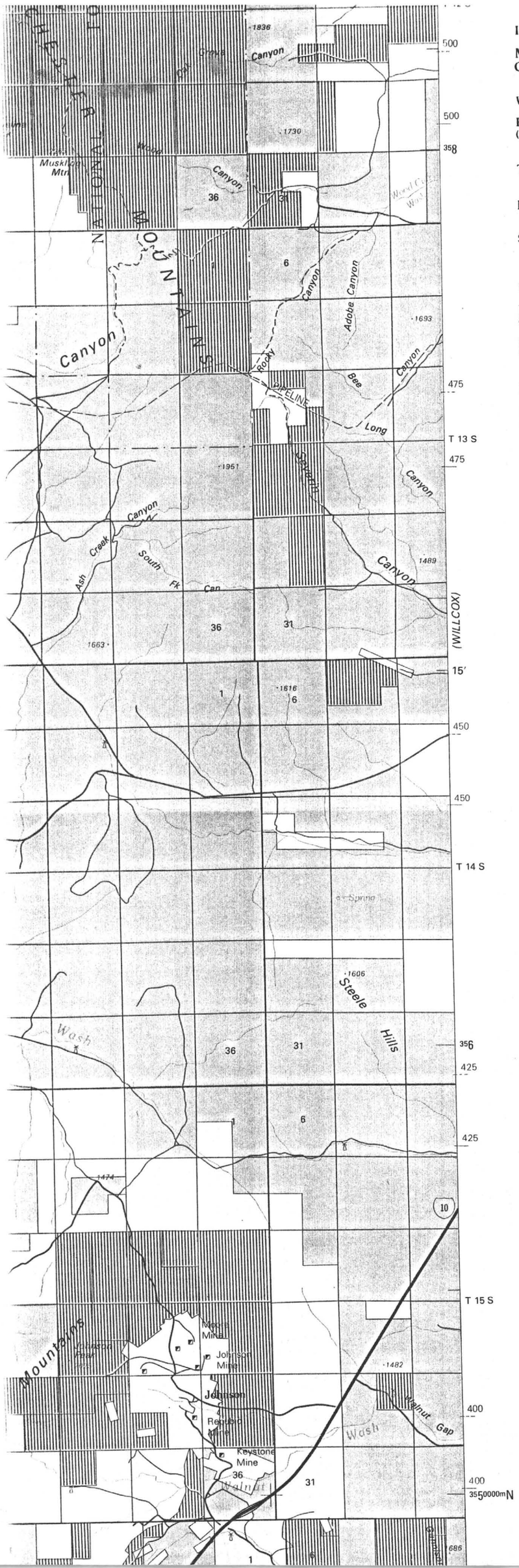
Winchester Mtns.

.024	should fire assay
.026	

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122



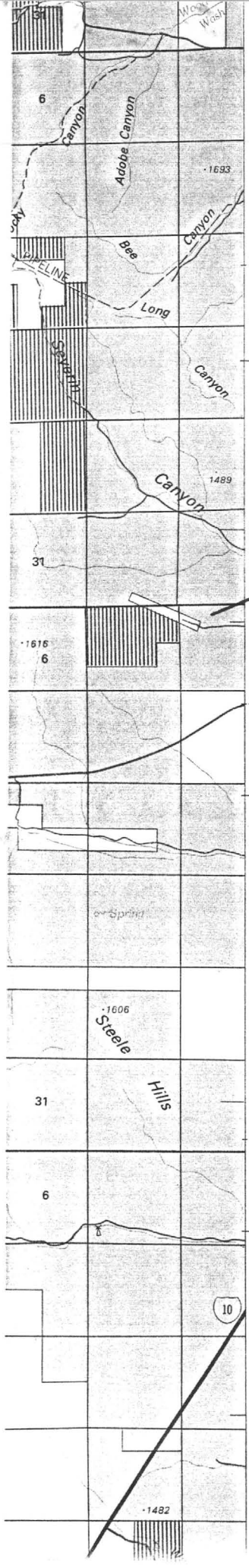
Indian Lands or Reservations	
Military Reservations and Withdrawals Corps of Engineers	
Wildlife Refuges	NONE
Bankhead-Jones Land Use Lands (L.U. Lands)	NONE
Tennessee Valley Authority	NONE
Patented Lands	
State Lands	
Water and Power Resources Service	NONE
Power Withdrawals and Classifications	
Federal Agency Protective Withdrawals	
Public Water Reserves	NONE
Department of Energy (DOE)	NONE
Oregon & California Lands (O&C Lands) Administered By US Forest Service	NONE
Radio & Air Facilities	NONE
Miscellaneous	NONE
State, County, City, Wildlife, Park and Outdoor Recreation Areas	
Acquired Lands (By Administering Agency)	NONE

MINERALS OWNED BY THE FEDERAL GOVERNMENT

Mineral Rights	*Symbol*
All minerals	
Coal only	NONE
Oil and Gas only	
Oil, Gas, and Coal only	NONE
Other	NONE
No symbol indicates no Federal minerals	

NOTE TO MAP USERS


GRAHAM CO
COCHISE CO
T 12 S
T 13 S
T 14 S
T 15 S
(TUCSON)
15'
Square Mtn
1735
Winchester Mts
Pipe Canyon
PIPELINE
Well
Wells
Spring
1309
1304
1291
1282
1277
1296
1374
Cochise County Airport
Red Bird Mine
Red Bird Rd
Hills
TRAIL
SULPHUR
Spike-E
Circle I
WILLCOX
BOMBING RANG
10
666
186



Patented Lands	
State Lands	
Water and Power Resources Service	NONE
Power Withdrawals and Classifications	
Federal Agency Protective Withdrawals	
Public Water Reserves	NONE
Department of Energy (DOE)	NONE
Oregon & California Lands (O&C Lands) Administered By US Forest Service	NONE
Radio & Air Facilities	NONE
Miscellaneous	NONE
State, County, City, Wildlife, Park and Outdoor Recreation Areas	
Acquired Lands (By Administering Agency)	NONE

Pat. Clm.

MINERALS OWNED BY THE FEDERAL GOVERNMENT

Mineral Rights	*Symbol*
All minerals	
Coal only	NONE
Oil and Gas only	
Oil, Gas, and Coal only	NONE
Other	NONE
No symbol indicates no Federal minerals	