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MINERAL HILL

Planet District, 3 miles West of the Planet Mine. Just west of Mineral Wash and about 2 miles south of Bill Williams River.

Visited January 29th, 1923, by H. S. McKnight.

NOTES:

Nine patented and three unpatented claims.

The geology and mineralization are similar to that at the Planet, having a gneiss footwall overlain by limestone and this, in turn, is overlain by quartz mica and chlorite schist. The mineralization has taken place within the limestone replacements. The ore occurs as silicates and carbonate of copper and oxides of iron.

There is considerable specularite, replacing the limestone in the northern part of the property. Toward the south there is less iron. In the old workings to the south there are narrow high grade streaks of chrysocolla filling cracks and fissures in a massive limestone similar to the Copper Hill deposit at the Planet.

Development in north part of group consists of a number of short tunnels and raises and open cuts. Considerable exploration work has been done in the southern part of the property, some of the work having been done fifty years ago.

There is no ore developed at present and apparently a very small tonnage has been removed from the property.

There is a fault towards the East of the property striking in N-S direction and dipping almost at 90 degs.

Some small veins of high grade copper ore are exposed in places, which, with reasonable transportation expense, could be worked in a small scale with profit.

MINERAL HILL

Planet, Arizona.

Major Pickerell, sole owner. Idle. Visited November 1st, 1916.

No important development since Norris English's report of June, 1915. In a letter dated October 9th, 1916, to Smart, San Francisco, Major Pickerell states property consists of nine patented and three unpatented claims. He asks \$250,000 on time for claims. A possible producer of ores similar to Planet, but unlikely to develop into a mine worth the price asked for the prospect.

MINERAL HILL.

Yuma County, Arizona.

About three miles west of Planet Mine near Bill Williams River. The following is taken from Norris English's report of June, 1915.

"The ore bodies on the northwest end of the Norma and Mojave Chief consist of bodies of specularite which has replaced the limestone, with layers of red schist above and below them. These have been slightly crushed and have had chrysocolla deposited in the spaces between the fragments. The red schist seems to have been the more brittle and contains the more copper mineral. The specularite is entirely barren in most places. The copper minerals are undoubtedly later than the iron ore.

On the southwest end of these claims the limestone has not been replaced to such a great extent by specularite and contains typical replacement deposits of oxidized copper ores along small fissures. These deposits were worked in early days and rich ore shipped to Swansea, Wales.

There is a little copper showing in the fault plane, but not enough at any point exposed to justify exploitation.

CONCLUSION: Some high grade copper ore is exposed in the workings and several hundred tons might be extracted profitably above Norma No. 10 tunnel. I believe that this ore will not extend below the limestone-schist contact.

The copper in the schist near the iron ore contacts is not great enough to make this material profitable. Except where a little chrysocolla has been deposited in small cracks and fractures the iron ore is practically free from copper.

I can see no indication of any ore deposit of sufficient importance to justify the provision of railroad transportation, without which only the high grade ore can be shipped with profit.

MINERAL HILL EXTENSION.

Planet district. $3\frac{1}{2}$ miles west of Planet.

Jack Johnson and Henry Schlichter. Owners. Idle.

Visited November 1st, 1916.

Property submitted by Major Hargrove, of Prescott.

Rugged and inaccessible country, mostly pre-Cambrian granite-gneiss schist complex. Tunnel 30', S. 20 degs. West. showing little carbonate, red jasper in breast. Two small cuts with little copper stain. Of no particular value except, possibly, as added territory to Mineral Hill property.

PLANET DISTRICT

DISTRICT: Planet, Arizona
PROPERTY: Argus C. & G. Mining Co. (A. B. Jones various properties)
LOCATION: Adjoins and surrounds New Plante Min. Co's property.
11 miles south Swansea. Shipping point Midway, between
Swansea and Bouse, 15 mi.
OWNERS &
OPERATORS: A. B. Jones, the owner, has incorporated the Argus C.
& G. Mining Co. but shares have not been issued. Assess-
ment work and development work only. A probable pro-
ducer of ores similar to Planet. A. B. Hardwick, Supt.
DATE VISITED: Oct. 30-31 - Nov. 1-2 - 1916.

NOTES:

Argus group 19 claims; Pacific group 13 claims; Maryland group
11 claims. About 800 acres. Water at Bill Williams Fork in abundance.
Pre-Cambrian gneiss over-laid with limestone, quartzite and schist.
Principal ore deposits on contacts of gneiss with the overlying formations,
especially limestone, generally specularite with chrysocolla in bunches.
Occasional outcrops observed from point east of the Mars and Uranus through
Argus group, through Plant ground and thence through Maryland claims.
Numerous faults. As on the Planet property, the best showings of ore
appear to be on a thrust fault the fragments of country rock being often
replaced, originally by sulphides, now represented by limonite and iron-
stained decomposed material and breccias. Juno tunnel 100' on contact.
Erebus incline 120' with drift 75' from 70' level. Numerous shallow
pits and cuts. Some development on quartzite dike 30'-40' wide on Rocki-
ville claim showing gold on cleavage planes, similar and perhaps a contin-
uation of the quartzite on the Yuma Chief property. Although consider-
ably less developed than the adjoining Planet property, the conditions
on the Jones property are so similar that the possibilities appear equally
promising. Extensive field notes.

* * * * *

PROPERTY: Emerald & Tyrone (Known as Glenn Property.)
LOCATION: 3/4 mil Yuma Chief. 3 mi. Planet, 20 mi. E. Parker
DISTRICT: Planet, Arizona
OWNERS &
OPERATORS: Mohawk Cons. Cop. Co. Sig. Weil, Long Beach, principal
owner. Chas. Weil, Parker, Representative. H. S. Glenn,
Mgr. Developing.
Date Visited: April 1, 1917.

NOTES:

Ten claims unpatented. One of the old Osborne properties re-located. Geological conditions similar to Planet. Specularite on contact N 30-40 E. of lime and underlying gneiss. Some remaining chalcop-rite, but ore mostly oxides, carbonates and silicate in specularite and hematite. Shallow surface workings on contact. There is siliceous flinty iron dike running N 25-30 W on which is 100' shaft showing disseminated pyrite and a very little chalcop-rite. Sample (73) assayed gold trace; silver 0.16; copper 0.18%. A probable shipper of small amounts of about 10 - 12% copper ore with 20% iron and 50-55% Insol. Glenn has recommended his company to prospect by drilling. Looks promising.

* * * * *

PROPERTY: Pride
 LOCATION: 7 mi. Planet
 OWNERS & OPERATORS: E. S. Osborne, owner, lease and bond to Capt. Imboden & Associates. J. E. Swain in charge. Developing.
 DATE VISITED: April 1, 1917

NOTES:

Four claims unpatented. Contact limestone with underlying granite-gneiss, dip 15° S. Limestone partially replaced by hematite. Small amount mineralization along joint planes in amphibolite-schist. Pockets of ore showing copper silicate and carbonate in specularite and hematite. Incline 130' on one pocket. Pinched out. 150' vertical shaft, last 20' in gray gneiss. Faults at bottom EW and N 40 E. At 100' level crosscut 50' in iron stained "porphyry", (granite-gneiss). Little pile of ore from pocket 60' down. Another 30' incline SW on contact N 50 E. Open cut NW-SE in iron stained gneiss and breccia. Rather unpromising prospect. Price to Osborne \$50,000.00

* * * * *

DISTRICT: Planet, Arizona, (cont'd)
 PROPERTY: Mineral Hill
 LOCATION: 2 miles West Planet.
 OWNERS & OPERATORS: Major Pickerell, sole owner. Idle.
 DATE VISITED: Nov. 1st, 1916.

NOTES:

No important development since Norris English's report of June, 1915. In a letter dated October 9th, 1916, to Smart, San Francisco, Major Pickerell states property consists of nine patented and three unpatented claims. He asks \$250,000, on time, for claims. A possible producer of ores similar to Planet, but unlikely to develop into a mine worth the price asked for the prospect.

* * * * *

PROPERTY: Mineral Hill Extension
LOCATION: 3½ miles West Planet.
OWNERS & OPERATORS: Jack Johnson and Henry Schlieter. Idle
DATE VISITED: Nov. 1st, 1916

NOTES:

Property submitted by Major Hargrove, of Prescott. Rugged and inaccessible country, mostly Pre-Cambrian granite-gneiss-schist complex. Tunnel 30', S. 20 degrees West, showing little copper carbonate, red jasper in breast. Two small cuts with little copper stain. Of no particular value except, possibly, as added territory to Mineral Hill property.

* * * * *

PROPERTY: New Planet
LOCATION: Planet, Bill Williams Fork. Shipping point Midway 15 miles. Very bad road.
OWNERS & OPERATORS: New Planet Copper Mining Co., owners. General Development Co. have interest. Operated by Northwestern Leasing Company, (Messrs. Wilson, Snell and Fisk of Globe Ariz.) L. N. Newton, Supt. Producing 25 to 45 tons per day.
DATE VISITED: Oct. 31, 1916.

NOTES:

Ore bodies mainly replacements in limestone, specularite with chrysocolla and copper carbonates in bunches on surface, some chalcopyrite and specularite underground. Incline 850', dip 15 degrees, on contact between limestone and underlying gneiss on thrust fault zone. Water in bottom of incline to bottom of vertical shaft. Few feet from incline ore appeared to be low grade, but still further in ore (chalcopyrite in

specularite) is of better grade, so that now about one half of the ore shipped is obtained underground. Good ore so far found extends for a depth of 80' on incline. Vertical shaft extended to depth of 550' by General Development Co., who also crosscut 900' W. from bottom and raised 50 feet to reach contact. On recommendation of W. H. Weed several churn drill holes were put down, but no commercial ore was found in either the vertical shaft, crosscut, raise, or drill holes. Most of the drill holes appear to have been poorly located. Direction of last holes turned at right angles to line of previous holes and results are said to have been more promising. Numerous block faults but no apparent disturbance in immediate neighborhood of 850' incline. Lessees endeavour to keep grade of shipments up to 8% Cu. They were ready to turn back their lease to A. B. Jones in August when discovery of better grade of sulphides underground changed their plans.

* * * * *

PROPERTY: O'Harra
 LOCATION: Near Planet
 OWNERS & OPERATORS: J. O'Harra.
 DATE VISITED: Nov. 3rd, 1916.

NOTES:

No ore in tunnel and found no indications on surface. Apparently worthless.

* * * * *

PROPERTY: Yuma Chief
 LOCATION: S. W. of A. B. Jones property.
 OWNERS & OPERATORS: J. S. Morgan, Dubuque, Iowa, and Fettgather. Trujillio & Munoz, Lessees.

NOTES:

Some ore shipped to Humboldt by Montgomery. Tunnel 30', shaft 120'. Tunnel 246', shafts 100' and 80'. Ore from quartzite ledges stained Cu and Fe, with free gold on cleavage planes. Most of shipping ore has come from surface workings. February, 1917; Mexicans' lease expired and option has been given to H. A. Morse.

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File

Supt (4)

District	Property	Location	Owners & Operators	Date Visited	Notes.
Planet, Arizona.	Argus C. & G. Mining Co. (A. B. Jones various properties.)	Adjoins and surrounds New Planet Min. Co's property. 11 miles south Swansea. Shipping point Midway, between Swansea and Bouse, 15 mi.	A. B. Jones, the owner, has incorporated the Argus C. & G. Mining Co. but shares have not been issued. Assessment and development work only. A probable producer of ores similar to Planet. A. B. Hardwick, Supt.	1916 Oct. 30-31 Nov. 1-2.	<p>Argus group 19 claims; Pacific group 13 claims; Maryland group 11 claims. About 800 acres. Water at Bill Williams Fork in abundance. Pre-Cambrian gneiss overlaid with limestone, quartzite and schists. Principal ore deposits on contacts of gneiss with the overlying formations, especially limestone, generally specularite with chrysocolla in bunches. Occasional outcrops observed from point east of the Mars and Uranus through Argus group, through Planet ground and thence through Maryland claims. Numerous faults.</p> <p>As on the Planet property, the best showings of ore appear to be on a thrust fault the fragments of country rock being often replaced, originally by sulphides, now represented by limonite and iron-stained decomposed material and breccias. Juno tunnel 100' on contact. Erebus incline 120' with drift 75' from 70' level. Numerous shallow pits and cuts. Some development on quartzite dike 30'-40' wide on Rockville claim showing gold on cleavage planes, similar and perhaps a continuation of the quartzite on the Yuma Chief property. Although considerably less developed than the adjoining Planet property, the conditions on the Jones property are so similar that the possibilities appear equally promising. Extensive field notes.</p>

(2)

District	Property	Location	Owners & Operators	Date Visited	Notes
Planet	Emerald & Tyrone (Known as Glenn Property).	3/4 mi. Yuma Chief. 3 mi. Planet. 20 mi. E. Parker.	Mohawk Cons. Cop. Co. Sig. Weil, Long Beach, principal owner. Chas. Weil, Parker, Representative. H. S. Glenn, Mgr. Developing.	April 1 1917	Ten claims unpatented. One of the old Osborne properties relocated. Geological conditions similar to Planet. Specularite on contact N 30-40 E of lime and underlying gneiss. Some remaining chalcopryite, but ore mostly oxides, carbonates and silicate in specularite and hematite. Shallow surface workings on contact. There is siliceous flinty iron dike running N 25-30 W on which is 100' shaft showing disseminated pyrite and a very little chalcopryite. Sample (73) assayed gold trace; silver 0.16; copper 0.18%. A probable shipper of small amounts of about 10 - 12% copper ore with 20% iron and 50-55% Insol. Glenn has recommended his company to prospect by drilling. Looks promising.
	Pride	7 mi. Planet	E. S. Osborne, owner, lease and bond to Capt. Imboden & Associates. J.E. Swain in charge. Developing.	April 1 1917	Four claims unpatented. Contact limestone with underlying granite-gneiss, dip 15° S. Limestone partially replaced by hematite. Small amount mineralization along joint planes in amphibolite-schist. Pockets of ore showing copper silicate and carbonate in specularite and hematite. Incline 130' on one pocket. Pinched out. 150' vertical shaft, last 20' in gray gneiss. Faults at bottom EW and N 40 E. At 100' level crosscut 50' in iron stained "porphyry", (granite-gneiss). Little pile of ore from pocket 60' down. Another 30' incline SW on contact N 50 E. Open cut NW-SE in iron stained gneiss and breccia. Rather unpromising prospect. Price to Osborne \$50,000.00.

(3)

District	Property	Location	Owners & Operators	Date Visited	Notes
Planet, Arizona, (Cont'd)	Mineral Hill	2 miles West Planet.	Major Pickerell, sole owner. Idle.	1916 Nov. 1st.	No important development since Norris English's report of June, 1915. In a letter dated October 9th, 1916, to Smart, San Francisco, Major Pickerell states property consists of nine patented and three unpatented claims. He asks \$250,000, on time, for claims. A possible producer of ores similar to Planet, but unlikely to develop into a mine worth the price asked for the prospect.
	Mineral Hill Extension	3½ miles West Planet.	Jack Johnson and Henry Schlieter. Idle.	1916 Nov. 1st.	Property submitted by Major Hargrove, of Prescott. Rugged and inaccessible country, mostly Pre-Cambrian granite-gneiss-schist complex. Tunnel 30', S. 20 degrees West, showing little copper carbonate, red jasper in breast. Two small cuts with little copper stain. Of no particular value except, possibly, as added territory to Mineral Hill property.

(4)

District	Property	Location	Owners & Operators	Date Visited	Notes
Planet, Arizona, (Cont'd)	New Planet	Planet, Bill Williams Fork. Shipping point Midway 15 miles. Very bad road.	New Planet Copper Mining Co., owners. General Development Co. have interest. Operated by Northwestern Leasing Company, (Messrs. Wilson, Snell and Fisk of Globe, Ariz.) L. N. Newton, Supt. Producing 25 to 45 tons per day.	Oct. 31, 1916.	Ore bodies mainly replacements in limestone, specularite with chrysocolla and copper carbonates in bunches on surface, some chalcopryrite and specularite underground. Incline 850', dip 15 degrees, on contact between limestone and underlying gneiss on thrust fault zone. Water in bottom of incline to bottom of vertical shaft. Few feet from incline ore appeared to be low grade, but still further in ore (chalcopryrite in specularite) is of better grade, so that now about one half of the ore shipped is obtained underground. Good ore so far found extends for a depth of 80' on incline. Vertical shaft extended to depth of 550' by General Development Co., who also crosscut 900' W. from bottom and raised 50 feet to reach contact. On recommendation of W. H. Weed several churn drill holes were put down, but no commercial ore was found in either the vertical shaft, crosscut, raise, or drill holes. Most of the drill holes appear to have been poorly located. Direction of last holes turned at right angles to line of previous holes and results are said to have been more promising. Numerous block faults but no apparent disturbance in immediate neighborhood of 850' incline. Lessees endeavour to keep grade of shipments up to 8% Cu. They were ready to turn back their lease to A. B. Jones in August when discovery of better grade of sulphides underground changed their plans.

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District	Property	Location	Owners & Operators	Date Visited	Notes
Planet, Arizona, (Cont'd)	O'Harra	Near Planet	J. O'Harra.	1916 Nov. 3d.	No ore in tunnel and found no indications on surface. Apparently worthless.
	Yuma Chief	S. W. of A. B. Jones property.	J. S. Morgan, Dubuque, Iowa, and Fettgather, Trujillio & Munoz, lessees.	Nov. 1st.	Some ore shipped to Humboldt by Montgomery. Tunnel 30', shaft 120'. Tunnel 246', shafts 100' and 80'. Ore from quartzite ledges stained Cu and Fe, with free gold on cleavage planes. Most of shipping ore has come from surface workings. February, 1917: Mexicans' lease expired and option has been given to H. A. Morse.

File P.
ES

Planet Leinster
Cop. Leinster (2)

Cop. Leinster

District	Property	Location	Owners & Operators	Date Visited	Notes
Planet, Arizona, (Cont'd)	New Planet	Planet, Bill Williams Fork. Shipping point Midway 15 miles. Very bad road.	New Planet Copper Mining Co., owners. General Development Co. have interest. Operated by Northwestern Leasing Company, (Messrs. Wilson, Snell and Fisk of Globe, Ariz.) L. N. Newton, Supt. Producing 25 to 45 tons per day.	Oct. 31, 1916.	Ore bodies mainly replacements in limestone, specularite with chrysocolla and copper carbonates in bunches on surface, some chalcoppyrite and specularite underground. Incline 850', dip 15 degrees, on contact between limestone and underlying gneiss on thrust fault zone. Water in bottom of incline to bottom of vertical shaft. Few feet from incline ore appeared to be low grade, but still further in ore (chalcoppyrite in specularite) is of better grade, so that now about one half of the ore shipped is obtained underground. Good ore so far found extends for a depth of 80' on incline. Vertical shaft extended to depth of 550' by General Development Co., who also crosscut 900' W. from bottom and raised 50 feet to reach contact. On recommendation of W. H. Weed several churn drill holes were put down, but no commercial ore was found in either the vertical shaft, crosscut, raise, or drill holes. Most of the drill holes appear to have been poorly located. Direction of last holes turned at right angles to line of previous holes and results are said to have been more promising. Numerous block faults but no apparent disturbance in immediate neighborhood of 850' incline. Lessees endeavour to keep grade of shipments up to 8% Cu. They were ready to turn back their lease to A. B. Jones in August when discovery of better grade of sulphides underground changed their plans.

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Planet Camp

District	Property	Location	Owners & Operators	Date Visited	Notes
Planet, Arizona, (Cont'd)	O'Harra	New Planet	J. O'Harra.	1916 Nov. 3d.	No ore in tunnel and found no indications on surface. Apparently worthless.
	Yuma Chief	S. W. of A. B. Jones property.	J. S. Morgan, Dubuque, Iowa, and Fettgather. Trujillio & Munoz, lessees.	Nov. 1st.	Some ore shipped to Humboldt by Montgomery. Tunnel 30', shaft 120'. Tunnel 246', shafts 100' and 80'. Ore from quartzite ledges stained Cu and Fe, with free gold on cleavage planes. Most of shipping ore has come from surface workings. February, 1917: Mexicans' lease expired and option has been given to H. A. Morse.

Planet

5

District	Property	Location	Owners & Operators	Date Visited	Notes
Planet, Arizona, (Cont'd)	O'Harra	New Planet	J. O'Harra.	1916 Nov. 3d.	No ore in tunnel and found no indications on surface. Apparently worthless.
	Yuma Chief	S. W. of A. B. Jones property.	J. S. Morgan, Dubuque, Iowa, and Fettgather. Trujillio & Munoz, lessees.	Nov. 1st.	Some ore shipped to Humboldt by Montgomery. Tunnel 30', shaft 120'. Tunnel 246', shafts 100' and 80'. Ore from quartzite ledges stained Cu and Fe, with free gold on cleavage planes. Most of shipping ore has come from surface workings. February, 1917: Mexicans' lease expired and option has been given to H. A. Morse.

(2)

District	Property	Location	Owners & Operators	Date Visited	Notes
Planet	Emerald & Tyrone (Known as Glenn Property).	3/4 mi. Yuma Chief. 3 mi. Planet. 20 mi. E. Parker.	Mohawk Cons. Cop. Co. Sig. Weil, Long Beach, principal owner. Chas. Weil, Parker, Representative. H. S. Glenn, Mgr. Developing.	April 1 1917	Ten claims unpatented. One of the old Osborne properties relocated. Geological conditions similar to Planet. Specularite on contact N 30-40 E of lime and underlying gneiss. Some remaining chalcopryite, but ore mostly oxides, carbonates and silicate in specularite and hematite. Shallow surface workings on contact. There is siliceous flinty iron dike running N 25-30 W on which is 100' shaft showing disseminated pyrite and a very little chalcopryite. Sample (73) assayed gold trace; silver 0.16; copper 0.18%. A probable shipper of small amounts of about 10 - 12% copper ore with 20% iron and 50-55% Insol. Glenn has recommended his company to prospect by drilling. Looks promising.
	Pride	7 mi. Planet	E. S. Osborne, owner, lease and bond to Capt. Imboden & Associates. J.E. Swain in charge. Developing.	April 1 1917	Four claims unpatented. Contact limestone with underlying granite-gneiss, dip 15° S. Limestone partially replaced by hematite. Small amount mineralization along joint planes in amphibolite-schist. Pockets of ore showing copper silicate and carbonate in specularite and hematite. Incline 130' on one pocket. Pinched out. 150' vertical shaft, last 20' in gray gneiss. Faults at bottom EW and N 40 E. At 100' level crosscut 50' in iron stained "porphyry", (granite-gneiss). Little pile of ore from pocket 60' down. Another 30' incline SW on contact N 50 E. Open cut NW-SE in iron stained gneiss and breccia. Rather unpromising prospect. Price to Osborne \$50,000.00.

District	Property	Location	Owners & Operators	Date Visited	Notes
Planet, Arizona, (Cont'd)	Mineral Hill	2 miles West Planet.	Major Pickerell, sole owner. Idle.	1916 Nov. 1st.	No important development since Norris English's report of June, 1915. In a letter dated October 9th, 1916, to Smart, San Francisco, Major Pickerell states property consists of nine patented and three unpatented claims. He asks \$250,000, on time, for claims. A possible producer of ores similar to Planet, but unlikely to develop into a mine worth the price asked for the prospect.
	Mineral Hill Extension	3½ miles West Planet.	Jack Johnson and Henry Schlichter. Idle.	1916 Nov. 1st.	Property submitted by Major Hargrove, of Prescott. Rugged and inaccessible country, mostly Pre-Cambrian granite-gneiss-schist complex. Tunnel 30', S. 20 degrees West, showing little copper carbonate, red jasper in breast. Two small cuts with little copper stain. Of no particular value except, possibly, as added territory to Mineral Hill property.

Parker

Copy with carbon add to file on Mineral Hill
unless it is already there

State land
min. loc 6,

DISTRICT: PLANET

NAME: MINERAL HILL

OWNERS:

DATE VISITED: January 29th, 1923, by H. S. McKnight.

LOCATION: 3 miles West of the Planet Mine. Just West of Mineral Wash and about two miles South of Bill Williams River.

NOTES: Nine patented and three unpatented claims.

The geology and mineralization are similar to that at the Planet, having a gneiss footwall overlain by limestone and this, in turn, is overlain by quartz mica and chlorite schists. The mineralization has taken place within the limestone replacements. The ore occurs as silicates and carbonates of copper and oxides of iron.

There is considerable specularite, replacing the limestone in the Northern part of the property. Toward the South there is less iron. In the old workings to the South there are narrow high-grade streaks of Chrysocolla filling cracks and fissures in a massive limestone similar to the Copper Hill deposit at the Planet.

Development in North part of group consists of a number of short tunnels and raises and open cuts. Considerable exploration work has been done in the Southern part of the property, some of the work having been done fifty years ago.

There is no ore developed at present and apparently a very small tonnage has been removed from the property.

There is a fault towards the East of the property striking in a N-S direction and dipping almost at 90 degrees.

Some small veins of high grade copper ore are exposed in places which, with reasonable transportation expense, could be worked in a small scale with profit.

Copy sent

MINERAL HILL

Yuma County,
Ariz.

About 3 miles west of Planet Mine near Bill Williams River. The following is taken from Norris English's report of June 1915.

"The ore bodies on the Northwest end of the Norma and Mojave Chief consist of bodies of specularite which has replaced the limestone, with layers of red schist above and below them. These have been slightly crushed and have had chrysocolla deposited in the spaces between the fragments. The red schist seems to have been the more brittle and contains the more copper mineral. The specularite is entirely barren in most places. The copper minerals are undoubtedly later than the iron ore.

On the southwest end of these claims the limestone has not been replaced to such a great extent by specularite and contains typical replacement deposits of oxidized copper ores along small fissures. These deposits were worked in early days and rich ore shipped to Swansea, Wales.

There is a little copper showing in the fault plane, but not enough at any point exposed to justify exploitation.

CONCLUSIONS:

Some high-grade copper ore is exposed in the workings and several hundred tons might be extracted profitably above Norma No. 10 tunnel. I believe that this ore will not extend below the limestone - schist contact.

The copper in the schist near the iron ore contacts is not great enough to make this material profitable. The iron ore is practically free from copper except where a little chrysocolla has been deposited in small cracks and fractures.

I can see no indication of any ore deposit of sufficient importance to justify the provision of railroad transportation, without which ~~the~~ only the high-grade ore can be shipped with profit.

See also Planet District - Mineral Hill.

MINERAL HILL

Yuma County,
Ariz.

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About 3 miles west of Planet Mine near Bill Williams River. The following is taken from Norris English's report of June 1915.

"The ore bodies on the Northwest end of the Norma and Mojave Chief consist of bodies of specularite which has replaced the limestone, with layers of red schist above and below them. These have been slightly crushed and have had chrysocolla deposited in the spaces between the fragments. The red schist seems to have been the more brittle and contains the more copper mineral. The specularite is entirely barren in most places. The copper minerals are undoubtedly later than the iron ore.

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See also Planet District - Mineral Hill.

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DISTRICT: PLANET

NAME: MINERAL HILL

OWNERS:

DATE VISITED: January 29th, 1923, by H. S. McKnight.

LOCATION: 3 miles West of the Planet Mine. Just West of Mineral Wash and about two miles South of Bill Williams River.

NOTES: Nine patented and three unpatented claims.

The geology and mineralization are similar to that at the Planet, having a gneiss footwall overlain by limestone and this, in turn, is overlain by quartz mica and chlorite schists. The mineralization has taken place within the limestone replacements. The ore occurs as silicates and carbonates of copper and oxides of iron.

There is considerable specularite, replacing the limestone in the Northern part of the property. Toward the South there is less iron. In the old workings to the South there are narrow high-grade streaks of Chrysocolla filling cracks and fissures in a massive limestone similar to the Copper Hill deposit at the Planet.

Development in North part of group consists of a number of short tunnels and raises and open cuts. Considerable exploration work has been done in the Southern part of the property, some of the work having been done fifty years ago.

There is no ore developed at present and apparently a very small tonnage has been removed from the property.

There is a fault towards the East of the property striking in a N-S direction and dipping almost at 90 degrees.

Some small veins of high grade copper ore are exposed in places which, with reasonable transportation expense, could be worked in a small scale with profit.