



CONTACT INFORMATION

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The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: COBALT

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 641B

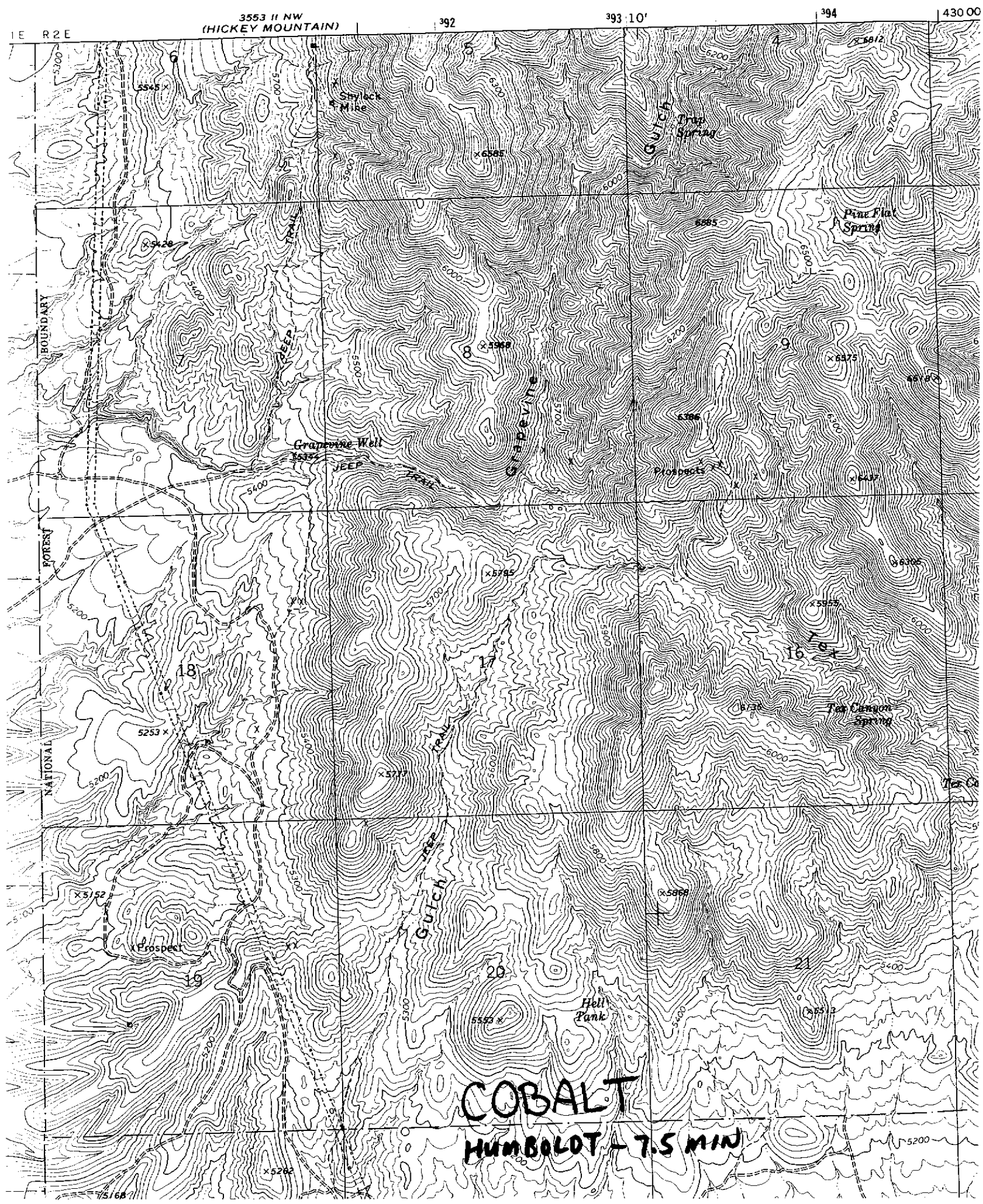
LOCATION: TOWNSHIP 14 N RANGE 2 E SECTION 8 QUARTER SE
LATITUDE: N 34DEG 36MIN 15SEC LONGITUDE: W 112DEG 10MIN 07SEC
TOPO MAP NAME: HUMBOLDT - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
COPPER
COBALT

BIBLIOGRAPHY:
ADMMR COLBALT MINE FILE
ANDERSON, C.A. & S.C. CREASY GEOL AND ORE
DEPTS OF JEROME AREA USGS PP 308 1958 P 177
USAEC PRELIM RECON RPT YAVAPAI CTY 1953 P 91

HUMBOLDT - 7.5 MIN



COBALT

HUMBOLDT - 7.5 MIN

389

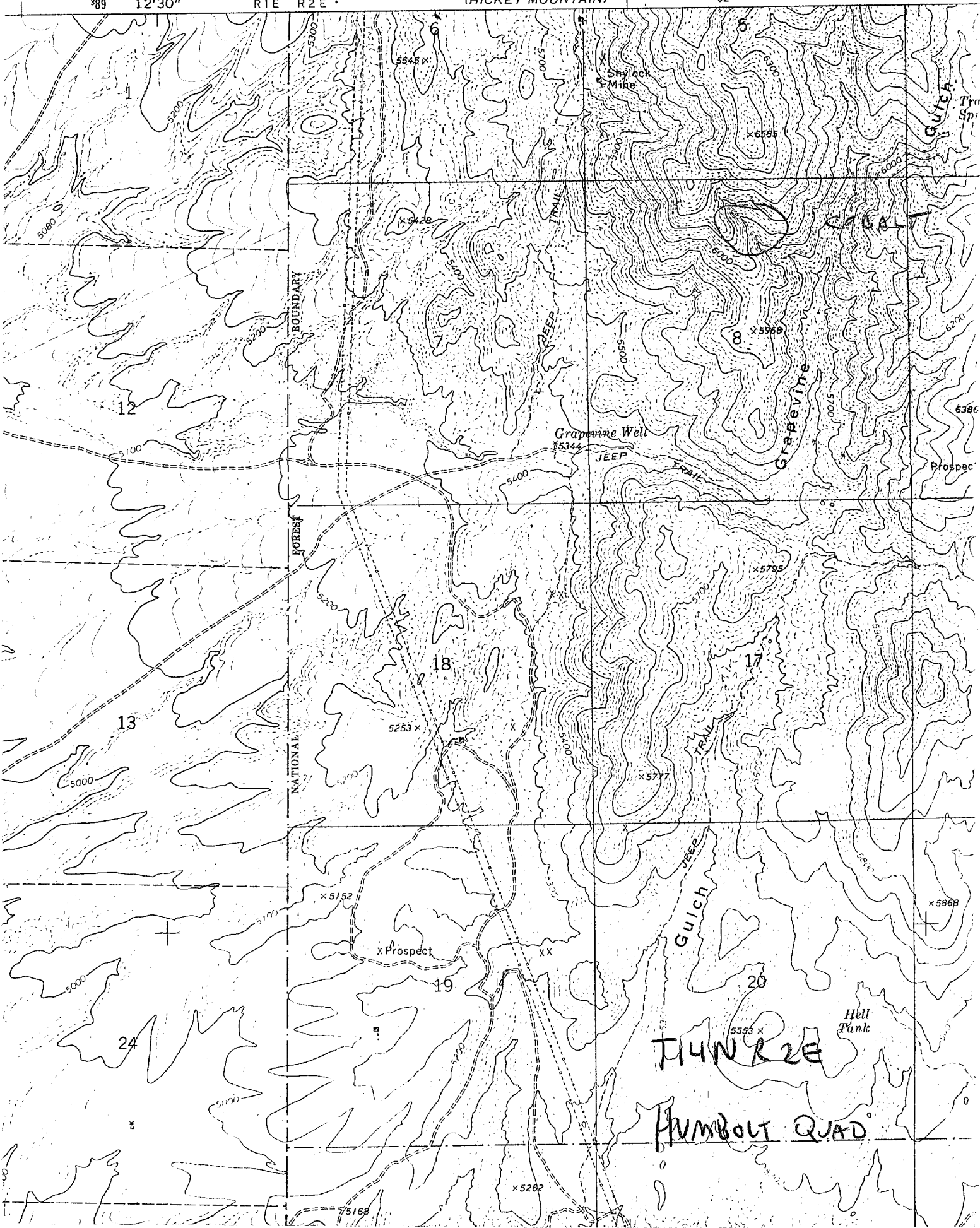
12'30"

R1E R2E

3553 II NW
(HICKEY MOUNTAIN)

392

393 10'



INVOICE
SMITH-EMERY COMPANY

FORM 6 25M 5-48

CHEMICAL, PHYSICAL, AND
METALLURGICAL LABORATORIES

Chemists - Engineers

TELEPHONE TRINITY 4791

920 SANTEE STREET

LOS ANGELES 15, CALIFORNIA

October 12, 1948

In Account with

State of Arizona,
Department of Mineral Resources
Mineral Building, Fairgrounds,
Phoenix, Arizona.

*Paid by
State
Official*

Att: Charles H. Dunning
Director

TERMS: Net. This is a professional labor bill and is due upon presentation.

E. & O. E.

TO PROFESSIONAL SERVICES

Lab.No. 298748 - Spectrographic Examination of sample

of Rock ----- \$7.00

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TO PROFESSIONAL SERVICES

Lab.No. 298745 - Spectrographic Examination of sample

of Rock ----- \$7.00

SMITH-EMERY COMPANY

CHEMICAL ENGINEERS AND CHEMISTS

METALLURGICAL AND TESTING ENGINEERS

920 SANTEE STREET

LOS ANGELES 15

CALIFORNIA

File

LABORATORY

No. 298748

Sample Rock

Received 10-8-48

Marked

Submitted by State of Arizona,
Department of Mineral Resources,
Mineral Building, Fairgrounds,
Phoenix, Arizona.

Att: Charles H. Dunning, Director.

Date October 12, 1948

*Cobalt -
Snyder W.A.
Yavapai Co.*

*Iron Pyrite
near Cobalt mine
in Yavapai Co. Arizona
in SE slope of Magma
Mt - 16 miles NW
of Humboldt.*

ElementApproximate Quantity

Iron -----

Major Constituent

Silicon -----

Intermediate Constituent

Minor Constituents

Aluminum -----
Magnesium -----
Calcium -----
Barium -----
Copper -----
Manganese -----
Zirconium -----
Tin -----
Arsenic -----
Lead -----
Cobalt -----
Molybdenum -----
Nickel -----
Strontium -----
Chromium -----
Titanium -----
Vanadium -----
Boron -----
Silver -----
Gold -----
Mercury -----
Uranium -----

1%
1%
1%
0.1%
0.1% ✓
0.1%
0.05%
0.01%
0.01%
0.01%
0.01% ✓
0.01%
0.001%
0.001%
0.001%
0.001%
0.001%
0.001%
Present
Trace
None found
None found

Smith-Emery
CHEMISTS AND ENGINEERS

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them is reserved pending our written approval as a mutual protection to clients, the public and ourselves.

(See statements on reverse side regarding qualitative spectrographic examination.)

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METALLURGICAL AND TESTING ENGINEERS

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CALIFORNIA

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REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

Element

Approximate Quantity

Iron -----

Major Constituent

Silicon -----

Intermediate Constituent

Minor Constituents

Aluminum -----	1%
Magnesium -----	1%
Calcium -----	1%
Barium -----	0.1%
Copper -----	0.1%
Manganese -----	0.1%
Zirconium -----	0.05%
Tin -----	0.01%
Arsenic -----	0.01%
Lead -----	0.01%
Cobalt -----	0.01%
Molybdenum -----	0.01%
Nickel -----	0.001%
Strontium -----	0.001%
Chromium -----	0.001%
Titanium -----	0.001%
Vanadium -----	0.001%
Boron -----	0.001%
Silver -----	Present
Gold -----	Trace
Mercury -----	None found
Uranium -----	None found

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Major Constituent

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Intermediate Constituent

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Magnesium -----	1%
Calcium -----	1%
Barium -----	0.1%
Copper -----	0.1%
Manganese -----	0.1%
Zirconium -----	0.05%
Tin -----	0.01%
Arsenic -----	0.01%
Lead -----	0.01%
Cobalt -----	0.01%
Molybdenum -----	0.01%
Nickel -----	0.001%
Strontium -----	0.001%
Chromium -----	0.001%
Titanium -----	0.001%
Vanadium -----	0.001%
Boron -----	0.001%
Silver -----	Present
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Mercury -----	None found
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State of Arizona
MINE OWNER'S REPORT

Date: October 30, 1941.

1. Mine: COBALT MINE
2. Location: Grapevine Canyon,
1 mile east of Shylock Mine,
10 miles northeast from
Humboldt, Arizona.
3. Mining District & County: Shylock
District, Yavapai County.
4. Former Name:
5. Owners: Jim Guthry)
Bill Snyder) Humboldt, Arizona
Howard Gentry, c/o Claude E. McLean, Assayer, 823 E. VanBuren St.,
Phoenix, Arizona.
George Babbitt, c/o Post Office, Flagstaff, Arizona.
6. Address (Owners):
7. Operator:
8. Address (Operator):
9. President, Owning Co:
- 9A. President, Operating Co:
10. Gen. Mgr:
14. Principal Minerals: Cobalt, some copper.
11. Mine Supt:
15. Production Rate:
12. Mill Supt:
16. Mill - Type & Cap:
13. Men Employed:
17. Power - Amt. & Type:
18. Operations - Present: Prospect - Assessment work.
19. Operations - Planned: Considering R. F. C. loan to develop.
20. Number Claims, Title, etc: 2 claims - unpatented. Others open and available.
21. Description - Topography & Geography: Foothills of Mingus Mountain - easily accessible; low scrub vegetation; about 4,000 ft. elevation; on low hillsides near junction of two creek beds.
22. Mine Workings - Amt. & Condition: 1 - 30 ft. shaft with 2 - 20 ft. drifts near collar (main showing); two other tunnels 100 ft. long; several open cuts. Water in 30 ft. shaft; timber collar OK.

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23. Geology & Mineralization: Quartzite and grano diorite (pink feldspar); green dikes; black bloom on cobalt showings.
24. Ore - Positive & Probable, Ore Dumps, Tailings: Prospect - 2 or 3 tons of ore on dumps.
- 24A. Dimensions and Value of Ore body: Vein - 8" to 12" showing cobalt (pink) bloom and heavy arseno-pyrites carrying cobalt. Assays from 1 to 7% cobalt.
25. Mine, Mill Equipment & Flow Sheet: None.
26. Road Conditions, Route: Easy road up Grapevine Canyon from main mine road to Shylock Mine, which is off cut-off road Jerome to Humboldt. 1,000 ft. trail - easy grade - to main workings.
27. Water Supply: Could be easily developed for domestic and probable milling.
28. Brief History: Open for many years and cobalt showing known.
29. Special Problems, Reports Filed: Development necessary.
30. Remarks: J. S. Coupal on property October 30, 1941.
31. If property for sale - Price, terms and address to negotiate: Would sell or give interest for development. See any of owners.
32. Signature: JIM GUTHRY
Humboldt, Arizona

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32. Signature: JIM GUTHRY
Humboldt, Arizona

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
MINE OWNER'S REPORT

Date 10/30-1941

1. Mine COBALT MINE
2. Location GRAPEVINE CANYON
1 MILE - EAST OF SHYLOCK
MINE - 10 MILES FROM
HUMBOLT - N.E. 8235 Van Buren
Assayed 10/30/41
3. Mining District & County SHYLOCK DISTRICT
YAVAPAI -
4. Former name JIM GUTHRY } HUMBOLT
5. Owner BILL SNYDER } HUMBOLT
6. Address (Owner) PHOENIX
7. Operator HOWARD GENTRY }
GEO. BABBITT }
8. Address (Operator) POST MASTER
FLAGSTAFF
9. President, Owning Co.
- 9A. President, Operating Co.
10. Gen. Mgr.
11. Mine Supt.
12. Mill Supt.
13. Men Employed
14. Principal Minerals COBALT
SOME COPPER -
15. Production Rate
16. Mill: Type & Cap.
17. Power: Amt. & Type
18. Operations: Present
PROSPECT - ASSESSMENT WORK.
19. Operations: Planned
CONSIDERING R.F.C. LOAN TO DEVELOP.
20. Number Claims, Title, etc. 2 CLAIMS - UNPATENTED.
OTHERS OPEN & AVAILABLE
21. Description: Topography & Geography FOOTHILLS OF MINGUS MOUNTAIN -
EASILY ACCESSIBLE - LOW SCRUB VEGETATION -
ABOUT 4000 FT. ELEVATION - ON LOW HILLSIDES NEAR JUNCTION
OF TWO CREEK BEDS -
22. Mine Workings: Amt. & Condition 1 - 30 FT. SHAFT - WITH 2 - 20 FT. DRIFTS
NEAR COLLAR (MAIN SHOWING) - TWO OTHER TUNNELS -
100 FT. LONG - SEVERAL OPEN CUTS.
WATER IN 30 FT. SHAFT - TIMBER COLLAR OK.

(over)

23. Geology & Mineralization

spinelite
SITE & GRAND-DI (PINK FELDSPAR)
GREEN ROCK DICES -
BLACK BLOOM ON COBALT SHOWINGS.

24. Ore: Positive & Probable, Ore Dumps, Tailings

PROSPECT — 2 OR 3 TONS OF
(?) ORE ON DUMPS.

24A. Dimensions and Value of Ore body

VENT — 8" to 12" SHOWING COBALT (PINK)
BLOOM & HEAVY ARSENOPYRITES — CARRYING
COBALT — ASSAYS FROM 1% TO 7% COBALT

25. Mine, Mill Equipment & Flow-Sheet

NONE

26. Road Conditions, Route

EAST ROAD UP GRADVINE CANYON (FROM)
MAIN MINE ROAD TO SHYLOCK MINE — 11-KM IS
OFF CUT-OFF ROAD — JEROME TO HUMBOLT.
1000 FT. TRAIL — EASY GRADE — TO MANY WORKINGS

27. Water Supply

COULD BE EASILY DEVELOPED FOR
DOMESTIC & PROBABLE MILLING.

28. Brief History

OPEN FOR MANY YEARS & COBALT SHOWING IS KNOWN.

29. Special Problems, Reports Filed

DEVELOPMENT NECESSARY.

30. Remarks

WOULD SELL OR GIVE INTEREST FOR DEVELOPMENT
J.S. COPPAL ON PROPERTY
10/30/41

31. If property for sale: Price, terms and address to negotiate.

SEE ANY OF OWNERS

32. Signature

GIVEN BY TIM GUTHRY - HUMBOLT ARIZ.

33. Use additional sheets if necessary.

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date: October 30, 1941.

1. Mine: COBALT MINE
2. Location: Grapevine Canyon,
1 mile east of Shylock Mine,
10 miles northeast from
Humboldt, Arizona.
3. Mining District & County: Shylock
District, Yavapai County.
4. Former Name:
5. Owners: Jim Guthry)
Bill Snyder) Humboldt, Arizona
6. Address (Owners):

Howard Gentry, c/o Claude E. McLean, Assayer, 823 E. VanBuren St.,
Phoenix, Arizona.
George Babbitt, c/o Post Office, Flagstaff, Arizona.
7. Operator:
8. Address (Operator):
9. President, Owning Co:
- 9A. President, Operating Co:
10. Gen. Mgr:
14. Principal Minerals: Cobalt,
some copper.
11. Mine Supt:
15. Production Rate:
12. Mill Supt:
16. Mill - Type & Cap:
13. Men Employed:
17. Power - Amt. & Type:
18. Operations - Present: Prospect - Assessment work.
19. Operations - Planned: Considering R. F. C. loan to develop.
20. Number Claims, Title, etc: 2 claims - unpatented. Others open and available.
21. Description - Topography & Geography: Foothills of Mingus Mountain - easily
accessible; low scrub vegetation; about 4,000 ft. elevation; on low hillsides
near junction of two creek beds.
22. Mine Workings - Amt. & Condition: 1 - 30 ft. shaft with 2 - 20 ft. drifts near
collar (main showing); two other tunnels 100 ft. long; several open cuts.
Water in 30 ft. shaft; timber collar OK.

23. Geology & Mineralization: Quartzite and grano diorite (pink feldspar); green dikes; black bloom on cobalt showings.
24. Ore - Positive & Probable, Ore Dumps, Tailings: Prospect - 2 or 3 tons of ore on dumps.
- 24A. Dimensions and Value of Ore body: Vein - 8" to 12" showing cobalt (pink) bloom and heavy arseno-pyrites carrying cobalt. Assays from 1 to 7% cobalt.
25. Mine, Mill Equipment & Flow Sheet: None.
26. Road Conditions, Route: Easy road up Grapevine Canyon from main mine road to Shylock Mine, which is off cut-off road Jerome to Humboldt. 1,000 ft. trail - easy grade - to main workings.
27. Water Supply: Could be easily developed for domestic and probable milling.
28. Brief History: Open for many years and cobalt showing known.
29. Special Problems, Reports Filed: Development necessary.
30. Remarks: J. S. Coupal on property October 30, 1941.
31. If property for sale - Price, terms and address to negotiate: Would sell or give interest for development. See any of owners.
32. Signature: JIM GUTHRY
Humboldt, Arizona

10 November 1941

Mr. Jim Guthry,
Humboldt, Arizona.

My dear Mr. Guthry:

I am enclosing herewith a copy of mine owners report filed with this department covering the COBALT, MINE in Yavapai County owned by Jim Guthry, Bill Snyder, Howard Gentry and George Babbitt.

I shall be glad to submit this report to anyone making inquiry for a property such as this, and I trust that we may be able to be of assistance to you.

Yours very truly,

Charles F. Willis
Chairman, Board of Governors

CFW-jrf

cc-Bill Snyder
Howard Gentry
Geo. Babbitt

- Cobalt-Mine:-

MC 65

2 unpatented claims: others adjoining
can be made available:- developed by
two shallow shafts - 20 ft. & 30 ft. and
two - one hundred foot tunnels: ore -
12" to 14" wide showing arseno-pyrite
with from 1 to 7% Cobalt.

Easily accessible by mine road.

Require development work.

For sale on reasonable terms.

Nylock Mining District
Jarvis County.