Wernecke Railroad (# 56)
(MINFILE# 105M 017)

1. LOCATION AND ACCESS

Wernecke Railroad is located on the northwest slope of Keno Hill, approximately 0.5 km west of the Wernecke town site. Approximate UTM coordinates are 7091700 m N 484700 m E. The elevation of the site is approximately 3900 m. The site is down slope from the Sadie Ladue workings at the Wernecke town site. The site is easily accessible by foot or four-wheel drive down an old road. Air photo identification NW 95030-77.

2. SITE PHYSIOGRAPHY

Wernecke Railroad is located on the northwest slope of Keno Hill. The elevation difference between the top of the site and the bottom is roughly 100 m. Site drainage flows west into the Christal Creek drainage area. The area is well vegetated with grasses, small bushes, and Alders. The site consists of bulldozer trenches and covers an area of approximately 30 acres. Some pooling was observed in the trenches.

3. GEOLOGY AND MINERALIZATION

The minfile indicates that the host rock for Wernecke Railroad is Earn Group schist and phyllite with greenstone lenses. Two or more veins are exposed which are up to 45 cm wide and weakly mineralized with galena and tetrahedrite. Another vein has arsenopyrite in quartz gangue. Some gold is present.

4. SITE HISTORY

This site has been worked since the 1920's. Work conducted included shallow shafts in the 20's, bulldozing and diamond drilling in the 60's, and heavy bulldozing and drill holes in the 70's.

5. MINE DEVELOPMENT

Workings at the Wernecke Railroad consisted of shafts, drilling and bulldozing. Intensive bulldozing is predominant and covers the entire area. No shafts or other workings were visible.

5.1 Mine Openings and Excavations

Up to twenty eight trenches were identified from the air photo. No other workings were found.

5.2 Waste Rock Disposal Areas

No large waste rock piles were observed.

5.3 Tailings Impoundments

No ore was processed at this site and no tailings were encountered.

5.4 Minesite Water Treatment

There was no water treatment observed at this site.

6. MINE SITE INFRASTRUCTURE

No mining infrastructure was observed at this site. A shack was observed at the beginning of the trail from Sadie Ladue. This may have been included with the Sadie Ladue site.

6.1 Buildings

Small 7m X 5m shack with wooden from and metal exterior was observed approximately 15m along the trail from the Sadie-Ladue site.

6.2 Fuel Storage

No fuel storage was observed at this site.

6.3 Rail and Trestle

No rail and trestle remnants were observed at this site.

6.4 Milling and Processing Infrastructure

No ore was processed at this site and no tailings were encountered.

6.5 Electrical Equipment

No electrical equipment was encountered at this site.

7. SOLID WASTE DUMPS

No large solid waste dumps were encountered at this site.

8. POTENTIAL CONTAMINANTS OF CONCERN

No hazardous materials were encountered on this site.

9. WATER QUALITY

Two pools were identified in the center of the site. The larger pool measured approx. 25m X 7m, and had extensive plant growth. A sample was taken from this pool (56-WS-1). Field pH and conductivity were 8.6 and 1510 µS respectively. A smaller pool was observed approximately 40 m north of the larger pool.

10. RECLAMATION

Natural revegetation is occurring in the trenches and on the roads. The area is well vegetated with alders, small bushes, and grasses.

11. OTHER SOURCES OF INFORMATION AND DATA

No other sources of information and data were identified.

12. REFERENCES

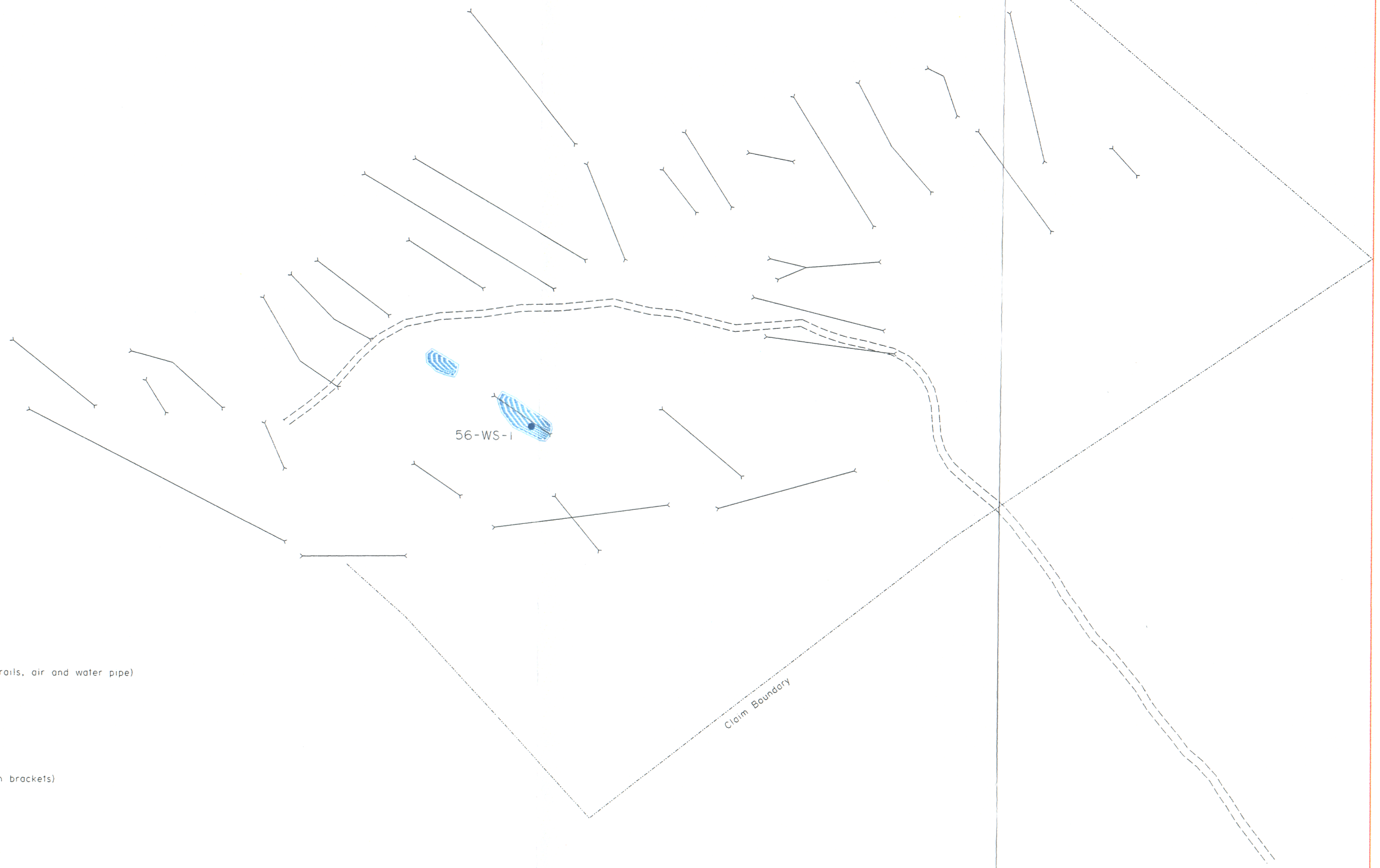
Minfile #105M 017

United Keno Hill Mines Limited. 1996. *United Keno Hill Mines Limited – Site Characterization.* Report No. UKH/96/01, prepared by Access Mining Consultants Limited.

United Keno Hill Mines Limited. 1996. *United Keno Hill Mines Limited – Site Characterization, Technical Appendices I-VI.* Report No. UKH/96/01, prepared by Access Mining Consultants Limited.

Attachment A: 1999 Wernecke Railroad Water Samples Analytical Results			
Sample Number	**Detection Limit**	**Units**	**S6-WS-1**
Site Desciption			**standing pond**
pH (field)	N/A	pH	8.6
Conductivity (field)	N/A	µS/cm	1510
pH (Lab)	0.01	pH	7.83
Conductivity (Lab)	0.01	µS/cm	200
Total Alkalinity	5	mg CaCO3/L	78
Chloride	0.25	mg/L	<0.25
Hardness (CaCO3 equiv)	5	mg/L	120
Nitrate-N	0.05	mg/L	<0.05
Nitrite-N	0.003	mg/L	0.004
Sulphate	1	mg/L	20.4
Total Dissolved Solids	5	mg/L	153
Analysis by ICP-USN			
Aluminum	0.0008	mg/L	0.0149
Antimony	0.005	mg/L	<0.005
Arsenic	0.01	mg/L	<0.01
Barium	0.00004	mg/L	0.0194
Beryllium	0.00001	mg/L	<0.00001
Bismuth	0.0004	mg/L	<0.0004
Boron	0.002	mg/L	<0.002
Cadmium	0.00006	mg/L	0.00002
Calcium	0.002	mg/L	32
Chromium	0.00006	mg/L	0.00028
Cobalt	0.00003	mg/L	<0.00003
Copper	0.00003	mg/L	0.00183
Iron	0.00001	mg/L	0.102
Lead	0.0003	mg/L	0.0004
Lithium	0.001	mg/L	0.003
Magnesium	0.0005	mg/L	6.03
Manganese	0.00002	mg/L	0.00373
Mercury	0.0001	mg/L	<0.0001
Molybdenum	0.00007	mg/L	0.00043
Nickel	0.00001	mg/L	0.0009
Phosphorus	0.03	mg/L	<0.03
Potassium	0.4	mg/L	<0.4
Selenium	0.004	mg/L	<0.004
Silicon	0.004	mg/L	0.122
Silver	0.00005	mg/L	<0.00005
Sodium	0.004	mg/L	0.4
Strontium	0.00002	mg/L	0.0775
Sulphur	0.008	mg/L	6.91
Thallium	0.001	mg/L	<0.001
Titanium	0.00002	mg/L	0.00036
Vanadium	0.00003	mg/L	<0.00003
Zinc	0.0002	mg/L	0.0032
Analysis by Hydride AA			
Arsenic	0.0002	mg/L	0.0005
Selenium	0.0001	mg/L	0.0002

- Building (22A: building site present reference*) / 22A* Indicates Asbestos Material
- 22A Collapsed Building
- Adit
- Collapsed Adit
- Shaft
- Collapsed/Backfilled Shaft
- Mine Rock Dump
- Bedrock Open Pit
- Trench
- Stripped Overburden Stockpile
- Stripped / Disturbed Area
- Outcrop Boundary
- Highway
- Road (gravel, 2 wheel drive)
- Road (gravel, 4X4 accessible)
- Road (inaccessible)
- Trail
- Culvert
- 24501-01 1999 Soil Sample (this study)
- Pre 1999 Soil Sample (other sources)
- 25WR04-01 1999 Waste Rock Sample (this study)
- Pre 1999 Waste Rock Sample (other sources)
- WO-12-06 1999 Water Sample
- Pre 1999 Water Sample
- Tension Cracks
- Mass Movement (note: for Forms; BelleKeno)
- Groundwater Seep
- Surface Water Flow (Stream, Creek, River)
- Lake
- Settling Pond / Water Treatment Pond
- Tailings Dam / Tailings Pond / Mill Tails
- Ponded Water / Trench
- Barrels
- Abandoned Equipment (compressors, ore cars, rails, air and water pipe)
- Mine Rails / Tressle
- Collapsed Tressle
- Solid Waste Disposal Site
- Area of Soil Contamination
- *(6) Transformer Loaction (number of transformer in brackets)
- Power Line
- Power Line Collapsed
- Arial Transmission Towers
- 5 Photo Site (arrow shows view direction)
- GPS Survey Location
- Former Building Site (Elsa)



Note: Trench outlines from aerial photographs

0 25 50 75 100

Scale 1:2500

CAD FILE: SADIE.DGN

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Wernecke (Railroad) Site #56
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