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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CONLEY KECK COPPER

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 37B

LOCATION: TOWNSHIP 22 S RANGE 15 E SECTION 35 QUARTER SE  
LATITUDE: N 31DEG 28MIN 37SEC LONGITUDE: W 110DEG 46MIN 42SEC  
TOPO MAP NAME: NOGALES - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:  
COPPER OXIDE  
ZINC

BIBLIOGRAPHY:  
ADMMR CONLEY LEACHING PLANT FILE

CONLEY LEACHING PLANT

SANTA CRUZ

Visit at Conley Keck copper. Mr. Tamayo, a miner living there, has 4 or 5 tons stockpiled. Told him that Inspiration might buy it if the grade was right and he had a large truck load. GWI WR 12/7/73

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*PAY LIST 11/68*

Mine visit, Conley Keck copper in 3R Canyon; no activity. GWI WR 9/1/76

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Leaching plant below 3R Property operated by Conley Brothers. No one around, trailer removed. Appeared to be little activity. Information from R. Baker, Anaconda. GWI WR 7-17-65

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Mine visit to Conley Keck copper in lower 3R canyon. GWI WR 11-9-68

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Conley Keck Copper, located in lower 3R canyon did some leaching and were starting to develop an open pit zinc mine, that would furnish the Joe Sirgo mill north of Nogales approximately 100 tpd. GWI QR 12-1968

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Mine visit to the Conley Keck copper operations. GWI WR 9-6-69

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Conley Keck copper were doing a little mining at their property and putting the ore behind their leach dam in lower 3R canyon. GWI QR 9-1969

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Desultory work continues at Conley Keck copper in 3R canyon. GWI QR 4-1-70

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Visited Conley Keck - no one around. Some signs of activity. GWI WR 5-7-70

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Conley Keck - inactive. GW WR 5-8-70

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Mine visit - Conley Keck Copper 3 R Canyon - no one around. GWI WR 5-10-71

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Mine visit. Conley Keck Copper in 3R Canyon. (Conley-Keck) GWI WR 9/27/71

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Mine visit. Conley Keck Copper, no one around. GWI WR 3/27/72

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Conley Keck Copper in Lower 3R Canyon. It has changed hands but have not been able to find out who the new owner is. Mr. Nick Tomayo is the watchman living at the site. He has staked 12 claims nearby and produced a little copper ore, but is unable to sell it. GWI 9/25/72

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Mine visit. Conley Keck Copper; no one around. H. Patty says that R. Conley is trying to option to a company. (Called Conley for details but he was not at home.) GWI WR 1/22/73

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Stopped at Conley Keck Copper, Tamayo who has an option is not working as he cannot find a place to ship his ore. He lives in the camp. GWI WR 3/19/73

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DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Conley Leaching Plant Date Jan. 6, 1965  
District Palmetto District, Santa Cruz County Engineer Axel L. Johnson  
Subject: Mine Visit. Information from Ted Jones, Foreman

Location: In Three R Canyon, about 6 miles south of Patagonia. Sec. 35 - T. 22 S. - R. 15 E.

Owners & Operators: Conley-Nelson Mining Co., 2462 N. Jordan Drive, Tucson  
Paul N. Conley, 2462 N. Jordan Drive, Tucson & Lloyd Nelson, Tucson, owners.  
Ted Jones, Foreman

Number of Claims: 4 unpatented claims

Principal Minerals: Oxidized copper ores.

Present Activity: Leaching of the copper ore. 1 man working daily and 3 men working on week ends.

Leaching Facilities:

- (1) 1 leaching precipitation tank - 8 ft. wide, 20 ft. long and  $5\frac{1}{2}$  ft. high built of lumber.
- (2) 1 leaching precipitation tank - 7 ft. wide, 14 ft. long and 4 ft. high, also built of lumber.
- (3) 4 additional tanks slightly smaller, the last one used for water collecting.
- (4) 1 dam across the Three R. Canyon, a short distance below the precipitation tanks.
- (5) 1 pump at the dam for pumping the water for use in the leaching operation, with a 2" pipe line from the dam to the leaching dump.

Review of Operations: (1) The first precipitation tank was built about January, 1964, and the dam across Three R. Canyon and the pipe line was installed about the same time.

- (2) The second precipitation tank was built in July and August, 1964.
- (3) A well was drilled on contract to a well driller in August & Sept. 1964, in order to provide water for the leaching operations. This was later abandoned because it did not supply enough water.
- (4) The additional precipitation tanks were built since Sept. 1, 1964.

The ore leached comes from the side of a fairly steep hill about  $\frac{1}{4}$  mile above the leaching plant. There is little or no overburden to remove.

After drilling and blasting, the ore is loaded into a dump truck with an end loader, and then hauled a short distance to the leaching dump, which is located about 100 yards from the precipitation tanks and at a higher elevation than the tanks.

At the leaching dump, the ore is sprinkled with water, the pregnant solution running into a sump, from whence it is siphoned off into the precipitation tanks.

From the last tank, the leaching solution is pumped back to the leaching dump and allowed to re-circulate.

The water used is pumped out of the dam on the Three R. Canyon Creek by means of a small pump through a 2 inch pipe line. At present, there is only enough water to run the plant about 6 hours each day. The well, which was drilled last fall, did not provide any water, but operators plan to drill another well in a different location soon, hoping to develop sufficient water for a full time leaching operation.

Sulphuric acid is added to the water at the precipitation tanks. Information as to the amount of acid added was not available.

Scrap iron used for the leaching operation is obtained from the Patagonia dumping ground.

Proposed Plans: To drill another well as explained above.