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**U.S. GEOLOGICAL SURVEY LIBRARY  
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**FRANK LEE HESS**  
(1871 - 1955)

NOTES, CORRESPONDENCE, PAPERS

1905 - 1920

(0.4 linear ft.)

Frank Hess was born in Streator, Illinois in 1871 and graduated from Stanford University in 1903. He served as an economic geologist with the U.S. Geological Survey from 1901 to 1925 and with the U.S. Bureau of Mines from 1925 until his retirement in 1943. He specialized in economic studies of tin, tungsten, pegmatites, and rare earth metals. From 1918 until his death Hess was the Honorary Custodian of Rare Metals and Rare Earths at the Smithsonian Institution. He was a member of the Mineralogical Society of America, the Geological Society of America and the American Institute of Mining and Metallurgical Engineers. In his private life Hess was known for his charity work with special needs children.

INVENTORY

By

Carol A. Edwards  
U.S. Geological Survey Field Records Collection  
MS 914, Box 25046, Federal Center  
Denver, CO 80225-0046  
December 2002

Location of Field Notebooks: CS 23-12

**NOTES ON MINERAL RESOURCES AND OTHER MISCELLANEOUS  
NOTES, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, INDIANA,  
MAINE, MEXICO, NEW MEXICO, SOUTH DAKOTA, TEXAS, UTAH,  
AND VIRGINIA. 1905-1913**

<u>Item Number</u>	<u>Description</u>
NO-08682	<p>Document box with 3 folders containing typed copies of field notes, with corrections and additions, but with very few sketches, and no maps. Note that there is some duplication between items in folders 1 and 2:</p> <ul style="list-style-type: none"> <li>- Folder 1. Miscellaneous notes. 1905-1907. Outline for information to gather during examination of lode mines and prospects, n.d.; list of “Publications of the Geological Survey of Pennsylvania – Lacking”; information on owners and antimony prospects near Gillham, Sevier County, Arkansas, n.d.; information from various publications on antimony in Arkansas; notes on mineral prospects near Burnet, Burnet County, Texas, Feb. 19-23, 1907 and at Baringer Hill, Llano County, Texas, February 25-26, 1907; Granite Mountain quarry and Marble Falls, Burnet County, Texas, Feb. 27, 1907; iron mines and deposits around Llano, Llano County, Texas (Feb. 18 – March 2, 1907; celestite near Austin, Travis County, Texas, Feb. 17, 1907; chrysophase near Porterville, Tulare County, California, n.d.; and magnesite mines in California, Nov. 9 - 21, 1905.</li> <li>- Folder 2. Miscellaneous field notes for United States Geological Survey. Nov. 8, 1906 – April 2, 1909. States and topics covered (general list in front of folder): magnesite (California); Maine (molybdenum, granite, pegmatite); Utah (silver-lead, wulfenite); molybdenite (California); mud balls (California); California (scheelite, molybdenite, an old volcano west of Amboy); tin (Texas); Tungsten (California, Arizona, Colorado, Oregon); gypsum (California); molybdenum (California); steel-hardening metals (list of purchasers, California); Arkansas (antimony); Texas (copper, iron ore, limestone, sandstone, graphite, gneiss, marble, gadolinite, quartz, granite, feldspar, mica, asphalt, celestite, chrysophase); California (gypsum); South Dakota (wolframite, cassiterite, tin ores, spudomene, mica, lepidolite, gold ore, pegmatite); Arizona (hubnerite);</li> <li>- Folder 3. Miscellaneous notes, September 1909 – December 4, 1913. Includes partial list of topics in front. Wolf Tongue and Primos mills, Nederland, Boulder County, Colorado, Sept. 3-10, 1909; rutile, Hanover-Goochland area, Hanover County, Virginia, May 17-21, 1910; Brinton arsenic mine, Brinton, Floyd County, Virginia, May 21, 1910; New Primos mill, north of Nederland, Colorado, June 27, 1910; Wolf Tongue Mill, Nederland, Colorado, June 28, 1910; Mr. F.B. Sheldon’s farm, Ashland, Hanover County, Virginia, June 20, 1911; stellite, Kokomo, Howard County, Indiana, July 18, 1911; Denver and Nederland notes, Denver and Boulder Counties, Colorado, July 21-24, 1911; uranium and vanadium notes, Green River, Emery and Grand Counties, Utah, July 27-28, 1911; vanadium notes, Placerville and</li> </ul>

Newmire, San Miguel County, Colorado, July 31 – August 5, 1911; vanadium, Engle, Sierra County, New Mexico, Aug. 20, 1911. The “Denver and Nederland notes” include: visit to the Globe Smelter, the Uranus claim and Bi sulphide, ferberite specimen at the School of Mines from Howell’s claim, Ardourel and Smith Mill on Beaver Creek; Tungsten Mining Company mill on Beaver Creek. Also: Little Split Mountain, Utah, Sept. 26, 1913; Red Creek/Brown’s Park, Utah, Oct. 1, 1913; Ouray, Utah, Oct. 7, 1913; west flank La Sal Mountains, Grand and San Juan Counties, Utah, Oct. 10, 1913; La Sal Mountains, Utah, Oct. 11, 1913; J.L. Wade camp, La Sal Mountains, Utah, Oct. 12, 1913; north of Monticello, Utah, Oct. 15, 1913; Big Indian Valley, Utah, Oct. 16, 1913; Mule Shoe Canon, Utah, Oct. 21, 1913; Temple Rock, Utah, Oct. 25, 1913; East side Henry Mountains, Garfield County, Utah, Oct. 29, 1913; Henry Mountains, Utah, Oct. 30, 1913; Trachyte Creek, Utah, Oct. 31, 1913; Crescent Creek, Utah, Nov. 3, 1913; Natural Bridges National Park [Monument], San Juan County, Utah, Nov. 7, 1913; grave of soldier at Soldier’s Crossing, Utah, Nov. 8, 1913; White Canon, Utah, Nov. 8, 1913; Hite, Mt. Ellsworth, Fruita, and Salt Lake City, Utah, November 10-28, 1913; North end San Rafael Swell, and San Rafael Swell, southeast of Thompsons, Emery County, Utah, Dec. 1-4, 1913 – most of these Utah notes pertain to vanadium.

## **GEOLOGY AND MINING IN THE RANDBURG QUADRANGLE, KERN AND SAN BERNARDINO COUNTIES, CALIFORNIA. 1908-1909**

- NO-08127    Expandable envelope with two folders:
- Folder 1. Randsburg field notes, October 20, 1908 – December 30, 1908. Volume 1. 98 pages (parallel pagination: 1-98, 34-131). Detailed, typewritten preliminary geologic notes with handwritten corrections and notes; measured sections; list of photographs taken; and information pertaining to Red and Klinker Mountains, Skilling well, Government and Barometer Peaks, Goler, Willow Spring, Haggin’s Well, Reed Gulch, Goler and Slate Washes, Randsburg, Elbert M Tunnel, Rosie’s claim, Fiddler Gulch, Kenyon and Windy mines, Jefford’s “American” claim, Main Rand tunnel, Little Mill adit, Johannesburg, Rand adit, Vertical, Hole-in-the-Wall, and Nero drifts, Val Verde and Phoenix mines, Oversight and Faraway drifts, Number 2 drift north, Motor Drift northwest of Circle, Number 35 and Foot Wall drifts, Stringer District, road, Yellow Aster Hill, Fremont Peak, Yellow Aster Glory Hole Mine, Butte and Wedge mines. Station locations nos. R 8 1-4; 8 R 5-123, 125-243.
  - Folder 2. Pages 99-131 (parallel pagination: 99-132, 1-131). Detailed, typewritten geologic notes with handwritten corrections and notes; sketches; and information pertaining to Glory Hole and Yellow Aster mines, Hercules shaft, Midway and Yellow Aster drifts, Jupiter tunnel, Oriental drift, Rand tunnel, Buffalo drift, Jake Price stope, Blue Mass and Alice drifts, Hunt stope, Vertical drift, Georgia winze shaft, Rand Vertical vein, Hole-in-the-Wall drift,

Coptus stope, Vertical winze shaft, Sidney mine, White's camp, Williams mine, Merced and Golden Link claims, Sunshine mine, Winnie, Santa Ana, and Pearl Wedge claims, Gold Bug fault, Howe shaft, Blue Glass claim, Blackhawk mine, Wickard's Scheelite claim, Atolia Mining Company, Hard Cash prospect, Government peak, Winnie mine, Corona Mining Company, Sunshine tract, Corona claim, Corona tract, Buckboard mine, Bully Boy claim, La Crosse mine, Blackhawk well, Butte mine, Philadelphia Wedge, Butte Lodge Mining Company, Consolidated Mine Company, Paradox claim, Papoose mine, Piute and Amity claims, Par mine, Flat Iron and Par claims, East Union and Churchill shafts, Union claim, White Flower and Buck & Wing claims, Cook Robin #2, Cora D. claim, Spar shaft, Wetherbee Goldstone claim, Fremont peak, Sidney mine, Murphy claim, Gold Corn shaft, Stanford and Baltic claims, Bedrock Spring, Mammoth dike, Red Rock Canon, '40 claim, Summit Range, Laurel Mountain, Summit diggings, Water Witch well, Laurel Peak, Haggin well, Willow Spring, Phoenix mine, Garden Station, Mountain City, Blackhawk, and Teagle wells, Dome Mountain, Pilot Knob Peak, Cock Robin Scheelite claim, Goler and El Paso Peaks, Goler Wash and Mountain, Black Mountain, Bueno Muchacho claim, Cane Spring, Rand Mountains, Mt. Moria claim, Teal's Marsh, Rhodes Marsh, Columbus Marshes, Saline Valley, Salt Wells Valley, Borax Lake, Panamint, Furnace Creek, Eagle Borax Works and Amargosa Borax Works. Station location nos. S/9 1-13, 15-43, 46, 48-56a, S-55, 57-59, 61-94a, 95-95a, 97-114, 116-120, 122-136a, 137-153, 155-224, 226-235, 242-243.

Published as: U.S. Geological Survey. Bulletin 430. 1910.

## **THE CARACOLES TIN PROPERTIES, QUIME DISTRICT, BOLIVIA. 1920**

- NO-08681      Expandable envelope with:
- Carbon copy, typed draft of a report of examinations of the Caracoles properties of "the Guggenheim Brothers", located "about 75 miles southeast of La Paz and 15 miles northwest of Quime, Bolivia" (summary page).
  - A memorial of Hess that states he occasionally "took a leave of absence from his government duties to do consulting work in foreign lands" (American Mineralogist, v. 54 (1969), p. 628).