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NAME DATE COMMENTS
FISCHER, RICHARD P. 08/01/73
MENZIE, DAVID 10/01/82

SITE NAME.....GROUNDHOG MINE
SYNONYM NAME.....INCLUDES: LUCKY BILL, DENVER, C.G. BELL, AND SAN JOSE: GROUNDHOG UNIT: PATENTED CLAIMS; (GROUNDHOG);
(LUCKY BILL); (SAN JOSE)
MINING DISTRICT/AREA.....CENTRAL DISTRICT

COUNTRY.....UNITED STATES COUNTRY CODE.....US
STATE.....NEW MEXICO STATE CODE.....NM
COUNTY OR PROVINCE NAME.....GRANT

PHYSIOGRAPHIC PROVINCE.....12 BASIN AND RANGE
DRAINAGE AREA.....13030202 RIO GRANDE
LAND STATUS.....01
SECOND QUADRANGLE NAME...SANTA RITA SECOND QUAD SCALE 1:24000
QUAD 250K.....SILVER CITY
ELEVATION.....6100 FT

LATITUDE.....32-46-15N LONGITUDE.....108-06-21W

SECTIONAL FRACTION.....N2
SECTION.....05
TOWNSHIP.....018S
RANGE.....012W
MERIDIAN.....NEW MEXICO
POSITION FROM NEAREST LOCALITY.....ABOUT 10 MILES DUE EAST OF SILVER CITY.
LOCATION COMMENTS.....ACCURATE LOCATION IS FOR THE GROUNDHOG NORTH SHAFT AS SHOWN ON THE SANTA RITA TOPOGRAPHIC QUADRANGLE.

COMMODITY TYPE.....METALLIC
COMMODITIES PRESENT.....ZN PB CU AG AU V MO
MAJOR.....ZN PB CU AG
MINOR.....AU
TRACE.....V MO
ORE MATERIALS.....SPHALERITE, GALENA, CHALCOPYRITE, ARGENTIFEROUS GALENA, CERUSSITE, CHALCOCITE, AZURITE, MALACHITE,
CHRYSOCOLLA, SMITHSONITE, ENDLICHITE, VANADINITE, CUPRODESCLOIZITE,
UNKNOWN AU, WULFENITE
NON-ORE MINERALS.....GANGUE: PYRITE, QUARTZ, CALCITE
GENERAL ANALYTICAL DATA.....EARLY ORE - 14% ZN, 10% PB, 5% CU, 340 PPM AG (FOR FIRST 35% OF ORE FROM THE MAIN SHOOT)

REGIONAL STRUCTURES.....HANOVER FIERRO STOCK, SANTA RITA STOCK
LOCAL STRUCTURE.....THE GROUNDHOG FAULT STRIKES N 30 TO 50 E.
CONCENTRATION/ENRICHMENT PROCESS.....OXIDIZED ORE WHICH ACCOUNTED FOR MOST OF THE EARLY PRODUCTION HAS BEEN MINED OUT.
ORE CONTROL.....MINERALIZED SOLUTIONS LOCALIZED ALONG THE NORTHEAST STRIKING GROUNDHOG FAULT ZONE AS VEINS IN FRACTURES AND
SHATTERED ZONES AND AS REPLACEMENTS OF LIMESTONES ADJACENT TO THE
FAULT ZONE.
AGE OF MINERALIZATION.....TERT
HOST ROCK.....LIMESTONES AND SANDSTONE
HOST ROCK AGE.....MISS-CRET
HOST ROCK UNIT

AGE NAME
LAKE VALLEY LIMESTONE MISS
MAGDALENA GROUP PENN
ASSOCIATED ROCK.....QUARTZ DIORITE, RHYOLITE AND GRANODIORITE PORPHYRIES
ASSOCIATED ROCK AGE.....CRET-TERT
ASSOCIATED ROCK UNIT

AGE NAME
GRANODIORITE DIKES TERT
GEOLOGY COMMENTS.....HOST ROCKS FOR VEIN DEPOSITS NEAR THE SURFACE ARE CRETACEOUS SANDSTONES AND HOST ROCKS FOR DEEPER VEIN
AND REPLACEMENT DEPOSITS ARE PALEOZOIC LIMESTONES.

DEPOSIT SIZE.....M
DEPOSIT TYPE.....VEIN, REPLACEMENT, OTHER; SUPERGENE ENRICHMENT
DEPOSIT FORM.....IRREGULAR
STRIKE.....NORTHEAST
DIP.....SOUTHEAST
DEPOSIT DESCRIPTION COMMENTS.....VEIN ALONG NE-TRENDING GROUND HOG-IVANHOE FAULT AND DIKE SYSTEM WITH ORE LOCALIZED AT
JUNCTIONS OF SUBSIDIARY FAULTS, ALONG REOPENED WALLS OF DIKES, AND
IN INTENSELY FRACTURED ROCKS. BELOW 360 M. ORE OCCURS AS REPLACEMENT
BODIES IN UPPER PALEOZOIC STRATA GENERALLY IN FAVORABLE LIMESTONE
BEDS AT THE INTERSECTION OF FAULTS AND HORNBLENDE GRANODIORITE
PORPHYRY DIKES. OXIDATION AND SUPERGENE ENRICHMENT TO DEPTHS OF 120
M. PROPERTY CONSISTS OF THREE PATENTED CLAIMS MINERAL SURVEY NUMBERS
159, 1221, AND 1222 COVERING 61.838 ACRES.

PRODUCTION SIZE.....MEDIUM
YEAR OF FIRST PRODUCTION.....PRIOR TO 1869
STATUS AND ACTIVITY.....6 INACTIVE DEVELOPED PRODUCER
DISCOVERER.....LAMBETH M. HEATH AND WHITE HEATH LOCATED THE GROUNDHOG CLAIM IN 1900, GEORGE F. MCMILLAN LOCATED THE
LUCKY BILL CLAIM IN 1900, AND THE SAN JOSE CLAIM WAS LOCATED PRIOR
TO 1869 BY UNKNOWN CLAIMANTS.
YEAR OF DISCOVERY.....PRIOR TO 1869
NATURE OF DISCOVERY.....ORE MINERAL OR MATERIAL IN PLACE
OWNER (PRESENT/LAST).....ASARCO, INC., SOUTHWESTERN MINING DEPT., P.O. BOX 5747, TUCSON, ARIZONA 85703 (1982)
OPERATOR.....ASARCO, INC. (1980)
EXPLORATION AND DEVELOPMENT COMMENTS.....MILL CAP: 197 MET TONS ; ECON.YEAR: 1975

MILL CAPACITY PER YR. (THOUS. UNITS)...197 MET TONS
YR APPLICABLE.....1975
ECONOMIC COMMENTS.....540 MTPD MILL AT DEMING.

DESCRIPTION OF WORKINGS.....UNDERGROUND
LENGTH OF WORKINGS.....25000 UNITS...FT
DEPTH BELOW SURFACE.....2200 UNITS...FT
DESCRIPTION OF WORKINGS COMMENTS.....WORKINGS REPORTED IN 1935 CONSISTED OF MORE THAN 26000 FT. OF DRIFTS AND CROSSCUTS, AND
MORE THAN 10000 FT. OF SHAFTS, RAISES AND WINZES.

REFERENCE....LINDGREN, W., GRATON, L.C., AND GORDON, C.H., 1910 USGS PP 68, P. 317-318
REFERENCE....LASKY, S.G., 1930 NMBMMR CIRC 2, 14 PAGES
REFERENCE....RICHARD, F.W., 1930 USBM IC-6377, 13 PAGES
REFERENCE....SPENCER, A.C., AND PAIGE, S., 1935 USGS BULL 859, P. 72-74
REFERENCE....LASKY, S.G., 1936 USGS BULL 870, P. 106-117
REFERENCE....ANDERSON, E.C., 1957 NMBMMR BULL 39, P. 60-61
REFERENCE....HERNON, R.M., JONES, W.R., AND MOORE, S.L., 1964 USGS GEOLOGIC MAP, GQ-306
REFERENCE....THOMPSON, A.J., AND JONES, W.R., 1965 NMBMMR BULL 87, P. 148-171
REFERENCE....JONES, W.R., HERNON, R.M., AND MOORE, S.L., 1967 USGS PP 555, 139 PAGES
REFERENCE....NMBMMR GENERAL FILE DATA
INFORMATION SOURCE.....12
ANNUAL PRODUCTION

ITEM ACCURACY AMOUNT THOUS UNITS YEAR GRADE
ORE ACC 111.000 MET TONS 1975 12. % ZN-PB
CUMULATIVE PRODUCTION
ITEM ACCURACY AMOUNT THOUS UNITS YEARS GRADE
ORE MED 1930-19??
SOURCE OF PRODUCTION INFORMATION.....WORLD MINING 6-25-76 P. 194
PRODUCTION COMMENTS.....PRODUCTION DURING 1906-1932 VALUED AT \$6.8 MILLION. MINE REOPENED IN 1969.
