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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SALVADORE

ALTERNATE NAMES:
SALVADOR

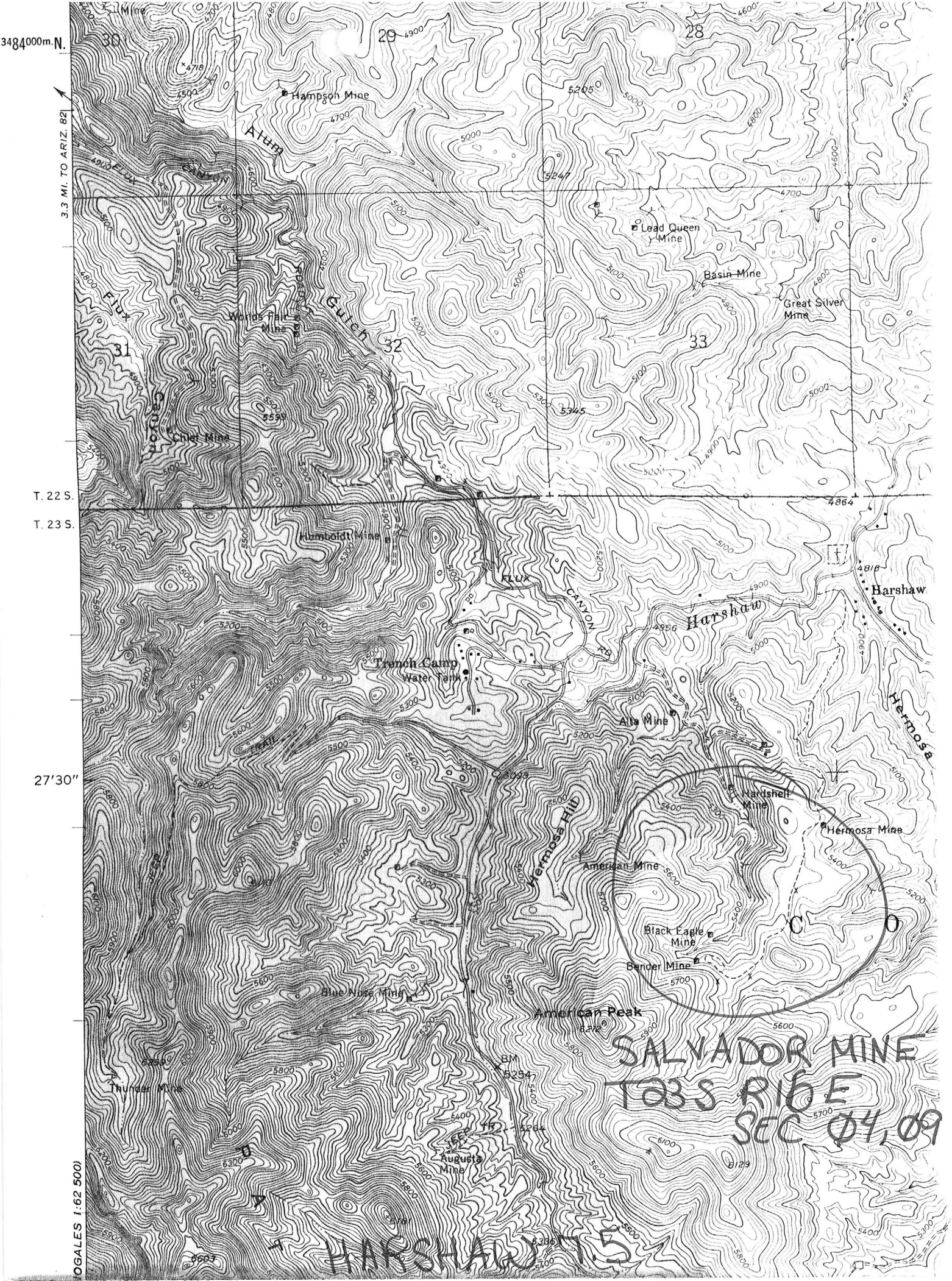
SANTA CRUZ COUNTY MILS NUMBER: 17E

LOCATION: TOWNSHIP 23 S RANGE 16 E SECTION 4 QUARTER SE
LATITUDE: N 31DEG 27MIN 09SEC LONGITUDE: W 110DEG 42MIN 57SEC
TOPO MAP NAME: HARSHAW - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
MANGANESE
STONE DIMENSION
LEAD
ZINC
IRON
SILVER

BIBLIOGRAPHY:
USBM IC7990 MN DEPOSITS OF EASTERN ARIZONA
P. 171-173
USGS RAW MATERIAL COMPILATIONS - MANGANESE BY
MAX CRITTENDEN (GIVES TONNAGE ESTIMATE P.16)
ADMMR - MAPS IN FLAT STORAGE AREA-DRAWER 5
USGS BULL. 582, P. 275
AZ. MINING JOURNAL, MARCH 1919, P. 29
USBM IC 7990, P. 171-173
KEITH STANTON B.,1975 INDEX MINING PROPERTIES
IN SANTA CRUZ CO. AZBM BULL. 191, P. 59


3484000m N.
3.3 MI. TO ARIZ. 82
T. 22 S.
T. 23 S.
27'30"
OGALES 1:62 500)
Hampson Mine
Atum
Flux
Worlds Fair Mine
Gulch
Chief Mine
Lead Queen Mine
Basin Mine
Great Silver Mine
Humboldt Mine
FLUX
CANYON
RD
Harshaw
Harshaw
Trench Camp
Water Tank
Alta Mine
Hermosa
Hardshell Mine
Hermosa Mine
Hermosa Hill
American Mine
Black Eagle Mine
Bender Mine
Blue Nose Mine
American Peak
BM
Thunder Mine
JEEP TR
Augusta Mine
SALVADOR MINE
T23S R16E
SEC 04,09
HARSHAW 7.5

SALVADOR MINE 9/84 SANTA CRUZ COUNTY
HARSHAW DISTRICT
T23S R16E Sec. 04, 09

MILS Santa Cruz Index #17E

AKA: San Salvador Mine, Hermosa Group

USGS Bull 582, p. 275

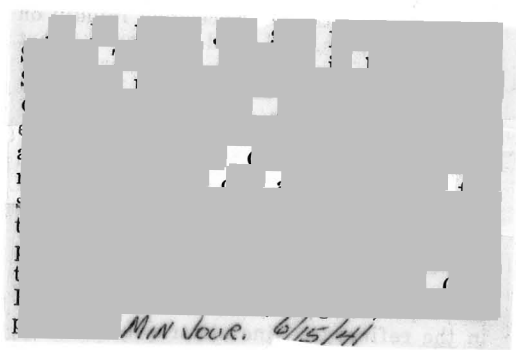
ABM Bull. 191, p. 59

USBM Information Circular 7990, p. 171-173

[redacted]

Harshaw 7.5 (included in file)

Az. Geological Society Digest, Volume 15, p. 199 (In library)



* GENERAL REFERENCES

REFERENCE 1 F1 < ABGMT-USBM FILE 9

REFERENCE 2 F2 < USBM FILES, SALVADOR MINE

REFERENCE 3 F3 < SCHRADER, FRANK C, 1915 MINERAL DEPOSITS OF THE SANTA RITA AND PATAGONIA MOUNTAINS, ARIZONA; USGS BULLETIN 582, p. 275

REFERENCE 4 F4 < KEITH, STANTON B., INDEX OF MINING PROPERTIES IN SANTA CRUZ COUNTY, ARIZONA; ARIZONA BUREAU OF MINES BULLETIN 191, p. 59

C43< 13.5% Mn, 0.12% Cu, 1.1% Pb, 1.3% Zn, 1.9% Fe, 67.4% Si, 10.7 oz/TON Ag >

M110< ORE BODIES RANGE FROM SMALL HIGH-GRADE BUNCHES TO AVERAGE-GRADE MASSES A FEW TENS OF FT IN LENGTH AND SEVERAL FT IN WIDTH>

SUBPARALLEL
K5 < SHEAR VEINS CUTTING LIMESTONE BLOCK OR ALONG BEDDING PLANES OF LIMESTONE >

N80< SIZE BODIES OF LOWER-GRADE MATERIAL OR BY BARREN SILICEOUS LIMESTONE>

N70< FROM IT BY ZONE OF UPFAULTED QUARTZITE>
N75 <KAOLINIZED>
N85< FOUND IN LIMESTONE BUT PRINCIPAL DEPOSITS CROP OUT ALONG SW END OF LIMESTONE BLOCK; CRYPTOMELANE AND BRAUNITE ARE THE CHIEF HYPOGENE MINERALS>
D10< MANGANESE ORE PRODUCTION IS NOT KNOWN FROM THIS DEPOSIT; A FEW SHIPMENTS OF HAND-SORTED MANGANESE ORE MAY HAVE BEEN MADE DURING WORLD WAR I >

F5< ABGMT FILES, STANTON B. KEITH >
F6< FARNHAM, L.L., STEWART, L.A., AND C.W. DELONG, 1961 MANGANESE DEPOSITS IN EASTERN ARIZONA; U.S. BUREAU OF MINES INFORMATION CIRCULAR 7990, p. 171-173>
F7< MOORES, RICHARD C., 1972, THE GEOLOGY AND ORE DEPOSITS OF A PORTION OF THE HARSHAW DISTRICT, SANTA CRUZ COUNTY, ARIZONA; M.S. THESIS, UNIVERSITY OF ARIZONA, p. 83>
F8< SIMONS, FRANK S., 1974, GEOLOGIC MAP AND SECTIONS OF THE NOGALES AND LOCHIEL QUADRANGLES, SANTA CRUZ COUNTY, ARIZONA; USGS MAP I-762 (1:48000)>
F9< ABGMT CLIPPINGS FILE, SALVADORE MINE>
F10< ADMR FILE DATA, SALVADOR MINE - WORKINGS MAP>

MILS 17E

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 <>
*RECORD TYPE B20 <X,1,M>
DEPOSIT NUMBER B40 <>
REPORT DATE G1 <8,2,¥,0,3> (YR. MO.)
*INFORMATION SOURCE B30 <1,2>
+FILE LINK IDENT. B50 < USBM-004023 0004
*REPORTER(SUPERVISOR) G2 < CALDER, SUSAN R. (last, first, middle initial) ((last, first, middle initial))
*REPORTER AFFILIATION G5 < ABGMT >
*SITE NAME A10 < SALVADOR MINE
SYNONYMS A11 < SAN SALVADOR MINE; HERMOSA GROUP

LOCATION

*MINING DISTRICT/AREA A30 < HARSHAW DISTRICT
*COUNTY A60 < SANTA CRUZ >
*STATE A50 <A,Z>
*COUNTRY A40 <U,S>
*PHYSIOGRAPHIC PROV A63 <1,2,¥>
*DRAINAGE AREA A62 <1,5,0,5,0,3,0,1,¥, LOWER COLORADO >
*LAND STATUS A64 <4,1,¥, ¥,(1,9,7,9,)>
*QUADRANGLE NAME A90 < LOCHIEL (1,9,5,8,)>
*QUADRANGLE SCALE A100 <6,2,5,0,0,>
SECOND QUAD NAME A92 < HARSHAW (1,9,4,8,)>
SECOND QUAD SCALE A91 <2,4,0,0,0,>
*ELEVATION A107 < 5,3,0,0,¥,F,T,>

UTM
*NORTHING A120 <3,4,7,9,8,0,0>
*EASTING A130 <5,2,7,2,0,0,>
*ZONE NUMBER A110 <1,1,2>

*ACCURACY
ACCURATE ACC (circle)
ESTIMATED EST <>

GEODETIC
*LATITUDE A70 <3,1,-,2,7,-,1,2,N,>
*LONGITUDE A80 <1,1,0,-,4,2,-,5,3,W,>

CADASTRAL
*TOWNSHIP(S) A77 <0,2,3,S,¥, ¥, ¥, ¥>
*RANGE(S) A78 <0,1,6,E,¥, ¥, ¥, ¥>
*SECTION(S) A79 < 09 (04) ¥, ¥, ¥
*SECTION FRACTION(S) A76 < NE
*MERIDIAN(S) A81 < GILA AND SALT RIVER >

*POSITION FROM NEAREST PROMINENT LOCALITY A82 < 1.5 MILES SW OF HARSHAW
*LOCATION COMMENTS A83 < 1/4 MILE SOUTH OF HARDSHELL MINE; 1/4 MILE NE OF BLACK EAGLE MINE

* ESSENTIAL INFORMATION
+ ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITY INFORMATION

*COMMODITIES PRESENT C10 <Cu, Pb, Zn, Ag, Au>
*ORE MINERALS C30 < PYROLUSITE; WAD; PSILOMELANE; BRAUNITE; CRYPTOMELANE
COMMODITY SUBTYPES C41 <
*GEN. ANALYTICAL DATA C43 < EARLY 1900's ASSAY VALUES AVERAGED 30 OZ./TON Ag, 19% Mn; 1941 VALUES AVERAGED
COM. INFO. COMMENTS C50 <

SIGNIFICANCE

	PRODUCER	NON-PRODUCER
MAJOR PRODUCTS	MAJOR <Ag>	MAIN COMMODITIES PRESENT C11 <
MINOR PRODUCTS	MINOR <Cu, Pb, Au, Mn>	MINOR COMMODITIES PRESENT C12 <
POTENTIAL PRODUCTS	POTEN <	
OCCURRENCES	OCCUR <Zn>	OCCURRENCES OCCUR <

*PRODUCTION

PRODUCER	NON-PRODUCER
PRODUCTION (YES) (circle) PRODUCTION SIZE (SML) MED LGE (circle one)	PRODUCTION UND NO (circle one)

EXPLORATION OR DEVELOPMENT

*STATUS

PRODUCER	NON-PRODUCER
STATUS AND ACTIVITY A20 <H>	STATUS AND ACTIVITY A20 < >

*DISCOVERER L20 < HERMOSA MINING CO. (?)
*YEAR OF DISCOVERY L10 < 1877 > *NATURE OF DISCOVERY L30 <B> *YEAR OF FIRST PRODUCTION L40 < 1900 > *YEAR OF LAST PRODUCTION L45 < 1944
*PRESENT/LAST OWNER A12 < GROVER MARSTELLER (1938); OTTO HERALD AND ASSOCIATES (1941)
*PRESENT/LAST OPERATOR A13 < L.R. BROWN (1944)
EXPL./DEV.COMMENTS L110 < OWNERS AND OPERATORS INCLUDED HERMOSA MINING CO., T. FARRELL, A.R. BYRD, L.R. BROWN, L. ROCHINE, MILLER; PROPERTY COMPRISES 1 PATENTED CLAIM

DESCRIPTION OF DEPOSIT

*DEPOSIT TYPE(S) C40 < VEIN; MANGANESE REPLACEMENT BODIES; STRATIFORM
DEPOSIT FORM/SHAPE M10 < TABULAR; IRREGULAR; SMALL BUNCHES
*DEPTH TO TOP M20 < > *UNITS M21 < > *MAXIMUM LENGTH M40 < 300 > *UNITS M41 < FT
*DEPTH TO BOTTOM M30 < > *UNITS M31 < > *MAXIMUM WIDTH M50 < 180 > *UNITS M51 < FT
*DEPOSIT SIZE M15 (SMALL) M15 <MEDIUM> M15 <LARGE> (circle one) *MAXIMUM THICKNESS M60 < 54000 > *UNITS M61 < SQ. FT.
*STRIKE M70 < > *DIP M80 <
*DIRECTION OF PLUNGE M100 < > *PLUNGE M90 <
*DEP. DESC. COMMENTS M110 < SILVER ORE MINED FROM VEIN LOCATED SEVERAL 100 FT EAST OF SALVADOR MANGANESE DEPOSIT; LIMESTONE BEDDING PLANES CONTAINING ORE BODIES STRIKE W AND DIP ABOUT 35 N;

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND M130 BOTH (M140) (circle one) *OVERALL LENGTH M190 < > *UNITS M191 <
*DEPTH BELOW SURFACE M160 < 50 > *UNITS M161 < FT > *OVERALL WIDTH M200 < > *UNITS M201 <
*LENGTH OF WORKINGS M170 < 1000 > *UNITS M171 < FT > *OVERALL AREA M210 < > *UNITS M211 <
DESC. OF WORK. COM. M220 < DEVELOPMENTS INCLUDED A 200-FT TUNNEL; 50-FT SHAFT; VARIOUS DRIFTS, CROSS CUTS, AND STOPES; 2 50-FT ADITS; SEVERAL SHALLOW OPEN-CUTS

GEOLOGY

*AGE OF HOST ROCK(S) K1 < J.R.I.-J.U.R.
*HOST ROCK TYPE(S) K1A < SILICIFIED LIMESTONE CONGLOMERATE
*AGE OF IGNEOUS ROCK(S) K2 < J.R.I.-J.U.R.
*IGNEOUS ROCK TYPE(S) K2A < RHYOLITE AND LATITE PORPHYRY BRECCIA
*AGE OF MINERALIZATION K3 < L.CRET.-TERT.
*PERT. MINERALS (NOT ORE) K4 < HIGHLY SILICEOUS GANGUE
*ORE CONTROL/LOCUS K5 < MANGANESE REPLACEMENT BODIES OCCUR IN FRACTURE ZONE; OTHER ORES OCCUR IN
*MAJ. REG. TRENDS/STRUCT. N5 < NW-TRENDING AMERICAN FAULT
*TECTONIC SETTING N15 < CORRAL CANYON FAULT BLOCK; DOWNTHROW TO SW
*SIGNIFICANT LOCAL STRUCT. N70 < SALVADOR VEIN IS LOCATED ALMOST ON PROJECTED COURSE OF HERMOSA VEIN, BUT IS SEPARATED
*SIGNIFICANT ALTERATION N75 < LIMESTONE BLOCK CONTAINING ORES IS HIGHLY FAULTED, BRECCIATED, SILICIFIED, AND
*PROCESS OF CONC./ENRICH. N80 < SECONDARY ENRICHMENT ALONG FRACTURE ZONES; ORE BODIES SEPARATED BY VARIOUS-
*FORMATION AGE N30 <
*FORMATION NAME N30A <
SECOND FM AGE N35 <
SECOND FM NAME N35A <
*IGNEOUS UNIT AGE N50 < J.R.I.-J.U.R.
*IGNEOUS UNIT NAME N50A < CHIEF CONGLOMERATE; BRECCIA MEMBER
SECOND IG. UNIT AGE N55 <
SECOND IG. UNIT NAME N55A <
GEOLOGY COMMENTS N85 < LIMESTONE BLOCK COVERS SURFACE AREA 900 FT LONG AND 200-300 FT WIDE, AND IS COMPLETELY SURROUNDED BY VOLCANIC ROCKS; SMALL AMOUNTS OF MANGANESE MINERALS ARE

GENERAL COMMENTS

GENERAL COMMENTS GEN < SEE ALSO: HERMOSA MINE