1630 0018	(68)
PROPERTY NAME: Homestake Mine	County: Lincoln Hem/8
OTHER NAMES:	
MINERAL COMMODITY(IES): Au, Ag, Cu?	Mining District: <u>Eagle Valley</u>
TYPE OF DEPOSIT: Epithermal	AMS Sheet: Caliente Quad Sheet: Deer Lodge Canyon
THEOLOGIA.	Quad Sheet: Deer Houge Carryon 7 1/2
ACCESSIBILITY:	Sec. 19 , T 1N , R 71E
OWNERSHIP:	Coordinate (UTM):
DDODUCTION	North <u>4   2   0   1   3   5 0 m</u>
PRODUCTION:	East <u>0   7   5   7   4   8   0 m</u> Zone +11
	2016
DEVELOPMENT: Glory hole or stope follows vein structure for severage inclined along vein at west odes of stone Standard along	
are inclined along vein at west edge of stope. Stope is about shafts & shallow workings in area but they are not extensive.	it 10-15' deep. There are other
ACTIVITY AT TIME OF EXAMINATION: None, but area near mine is staked.	
GEOLOGY: Glory hole explores N to N15E, 40-50° W quartz-adu	ularia (alumito?) voin which
appears to have been emplaced along shear zone of the same or	cientation. Fault is probably
pre-mineral, as altho slicks are present on footwall andesite	es, the main body of the vein is
relatively unbrecciated. Upper portion of explored vein cons	sists of massive to cockade quartz
which encases silicified andesite & possibly some rhyolite fr	ragments which were probably
ripped up & incorporated in vein during emplacement. The mai which is best mineralized & explored by inclines is a massive	n body of the vein & that portion
greenish-white quartz-adularia(?) vein which, in exposure, ex	sceeds 5' in width. Most of the
quartz in this portion of the vein is very fine-grained & typ	pically forms undulatory
chalcedonic bands parallel to the vein strike. Some of the b	pands are dark with dispersed
fine-grained sulfides which are probably Ag-bearing minerals,	& in several samples very fine-
grained free gold was noted in the sulfide-rich lenses. Gold chalcopyrite & blue metallic sulfides in fine-grained clots of	
sugary quartz vein in dump samples & in outcrop. The gold-be	
crosscut by late-stage, clear, vitreous, open-centered fissur	re veins & veinlets which carry
pyrite.	
The hanging wall & footwall andesites are Fe-staine	ed, bleached, silicified & heavy
quartz-veined. The rocks are notably brecciated(slicks are crustiform quartz veins & veinlets which extend outward into	abundant) & show a network of
Quartz veining of wallrocks increases width of vein exposure	to 10' or more. Main vein is
sheared by several small E-W structures, & may be truncated b	
southern end of exposure.	
REMARKS: Samples 1727 - Free, very fine-grained gold in chal	cedonic quartz vein.
1728 - Quartz-vein breccia.	
REFERENCES:	
Bentz/Smith	9/19/83 DATE VISITED: