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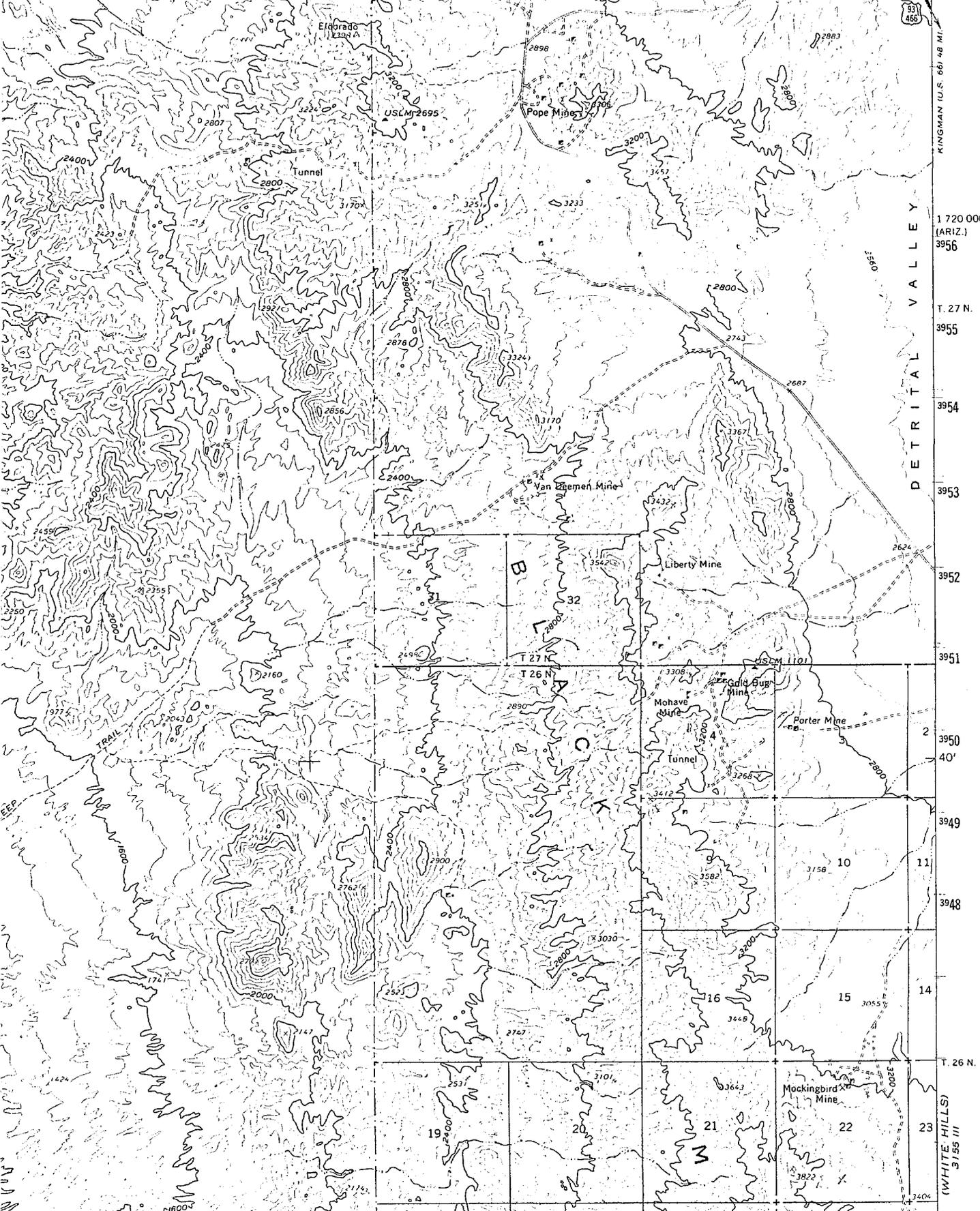
### **QUALITY STATEMENT**

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MT. PERKINS QUADRANGLE  
ARIZONA-NEVADA  
15 MINUTE SERIES (TOPOGRAPHIC)

3155 IV  
(SENATOR MOUNTAIN)

716 717 718 35' 719 720 721 R. 21 W. 270 000 FEET (ARIZ.) 724 HOOPER DAM 27 MI. 114° 30' 35° 45'



DETRITAL VALLEY

172000 FEET  
(ARIZ.)  
3956

T. 27 N.

3955

3954

3953

3952

3951

3950

40'

3949

3948

11

14

T. 26 N.

(WHITE HILLS)  
3155 III

MOHAVE COUNTY GOLD "RESERVES" - RESOURCES

\* = Elephant County (Potential for Asarco: Keep track of + future work)

\* Cyclopic - Gold Basin -  $\pm 5$  m.t. @  $\pm .04$  opt Rough Estim. Resource -  
Corn/Ahren

Including: 300,000T @ 0.15 opt indicated  
(Wyman + King)

AZ Dept. Min. Res. -  
Phoenix

Including: 67,000T @ 0.28 opt indicated  
(McIntire)

(need to review data)

Saratoga Mines has lease from Wyman + King.

Production  $\pm 60,000$ T @ 0.35 (Tails  $\pm 50,000$ T run 0.08 opt) - Corn

U.S. Borax Drill: 200,000T @ 0.04 (1983) W&N of Cyclopic, spotty,  
now Loghry/Corn/Ahren

(F.R.K. will sample a few of neglected better areas)

Back from Icarus-Teton Expl. 3/15/87.

\* N. Black Mtns: Van Deeman: Fischer-Watt Gold (US-OTC)/Arizona Star  
( $\pm$ WSA) Resources (VSE)

(235 unpat. claims from Kunkes): fill-in - step out drilling

Spring 1987 (May 1 start + detailed mapping + sample on north end).

2-10 m.t. @ .04-.05 "potential" (including area W. of Pope Mine)

2.6 m.t. @ 0.042 .5-1.5/1 w/o indicated + infer. GCNL 2/9/87

.72 m.t. @ 0.042 1.2/1 w/o @.01 c/o indic.+prob. 65 holes  $\pm 40'$  thick

.75 m.t. @ 0.042 - possible

P. Dunning 12/86

Gold Bug (Ivy Minerals): 300T @  $\pm 4$ .opt Au Drilled to 200' (vein)  
Bill Vanderwall. Mgr. (Geol) (7 pat. claims)

$\pm 50,000$ T @ 1. opt Au in vn to 400'; shaft retimbering, to 250'

2/87 - May ship to Hayden - mini-mill later (vn-lower plate pE)

Check out Liberty Mine color anom., lower plate, drilled Freeport  
1982, Sec. 33, T27N, R21W.

$\pm$ \* Mockingbird (Chevron, Ex-Anaconda) New Chevron claims S. of  
Mockingbird 4/86

Production:  $\pm 20-30,000$ T @ .4 opt Au-( $\pm 5,000$ T Tails) - Guess FRK +  
Shrader

$\pm 8$  RDH Drilled Oct 1985 at Mockingbird Mine (Kyllo-Noon, Las V.?)

Plans of operations for Spring 1987 drilling by Chevron and another  
Group S. of Mine filed with BLM

# ASARCO EXPLORATION RECORD

FIELD EXAMINATION     LITERATURE SEARCH     ASARCO FILE     7 Pat. Claims  
 Gold Bug=Ivy Minera (Unpat): Mohave = Kunke

**Section I General Indexing**

① Name(s) of Property or Area Gold Bug Mine and (Mohave Mine)				② Country Mohave Co.		③ State or Province Arizona	
				④ USGS Quad. MT. Perkins 15'		⑤ File or Core No.	
⑥ Latitude 35°41'N	⑦ Longitude 114° 35'W	⑧ AMS Sheet Kingman	Township 27N	Range 21W	Section 4	⑨ Examined by F.R. Koutz	⑩ Date 2/9 & 5/7
						⑪ Office Tucson	⑫ Field Days 5 hours

**Section II Sources of Information**

Date Typed 6/9/87

⑬ References	Author	Date	Title	Publications	Vol. No.
	Asarco Files	1932-40	Mohave Mining Co. (Gold Bug & Mohave Mines)		
	Gardner, E.D.	1936	Gold Mining & Mill. Black Mts.	USBM IC 6901 p. 56.	

**Section III Appraisal** This does not appear to be a tax etc. scam.

⑭ Recommendations <input type="checkbox"/> Action Now <input type="checkbox"/> Too Low Grade <input checked="" type="checkbox"/> Too Small <input type="checkbox"/> Ownership Problem <input type="checkbox"/> Access Problem <input checked="" type="checkbox"/> Visit UG			⑮ <input checked="" type="checkbox"/> Post Producer <input type="checkbox"/> Producer <input type="checkbox"/> Mineral Deposit <input type="checkbox"/> Prospect <input checked="" type="checkbox"/> Silica Flux			<input type="checkbox"/> Geologic Concept <input type="checkbox"/> Geochem Anomaly <input type="checkbox"/> Geophy Anomaly			⑯ Production Gold Bug Prob. X000T Max. <table style="width: 100%; border-collapse: collapse;"> <tr> <th>Commodity</th> <th>Tons</th> <th>Grade</th> </tr> <tr> <td>1890's</td> <td>50+800</td> <td>43. +1.25 opt Au</td> </tr> <tr> <td>1931-32</td> <td>5+205</td> <td>3.5+(.7-1½)</td> </tr> <tr> <td>1939</td> <td>19</td> <td>0.7 opt Au</td> </tr> </table>			Commodity	Tons	Grade	1890's	50+800	43. +1.25 opt Au	1931-32	5+205	3.5+(.7-1½)	1939	19	0.7 opt Au
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<input type="checkbox"/> Spectro. Analysis Attached			<input type="checkbox"/> Assoys Attached			<input type="checkbox"/> Geochem Results Attached																	

**Section IV Geologic Data**

⑳ Commodity or Contained Metals Au (Ag-fair amount; Ag>Au in opt)	
㉑ Ore Minerals-Major Au (oxidized to 250-290' pyrite) Minor vanadinite galena	
㉒ Host Rocks-Major Gr-Dior gn+shists peg+aplite Db±felsite Minor Andesites-rare	
㉓ Age of Host Rocks p6 p6 p6 or m-T? - dikes in foliation m-T (upper plate)	
㉔ Nature of Exposures Good: Low rolling hills+desert pediment, 4-500' relief, vein open cut plus trenched/Dozed. Local slump+landslide in schists. Weak NE color anomaly.	
㉕ Alteration Qtz-calc-barite±Bx vein filling/local Epidote, chl+adularia. Hem/goeth (pyrite) halo to vein. Total Extent 500-800'? on vein - Multiple veins in area	
㉖ Structure ENE VN, & ±80 N dip. Cut ± offset by cross faults. Vein locally Bx'd -cockscomb qtz At least 3 shoots braid through fissure. Mohave: N70E, 70°S vn + N70W 70°S schist	
㉗ Ore Occurrence Qtz vn on Fw or Hw of struct. (Best values) Diorite on FW(s-side), Best Au values (VG) in hem. -Filled vugs in shattered Qtz vn. Pyrite + galena comes in below 300' level but Au grade drops off. Age of Mineralization Mid-Tert.(?)	
㉘ Conclusions & Recommendations Narrow, spotty, local high-grade shoots offset by cross faults= difficult mining. Ivy drilled out with close-spaced, fanned, Trak-drill/some short DDH+UG sampling Shaft reopened to 250' level + some planned DDH to find vn. offsets to NE. Of main interest as root feeder zones of low angle listric zones (Scientific) & as smelter feed. Ivy is collecting mill par from White Hills, etc. + may build mill when (& if) direct-ship payback. Ivy ready to break ore/ June 87). Lower part of shaft needs mucked out. Lower angle vein joins high angle vein at ±300 level. Shaft was previously resunk on lower angle/more productive vein (For additional space use extra sheets)	

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