



## **CONTACT INFORMATION**

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BONANZA

ALTERNATE NAMES:

TOMBOY GOLD & COPPER CO

GILA COUNTY MILS NUMBER: 133B

LOCATION: TOWNSHIP 1 N RANGE 14 E SECTION 13 QUARTER NE

LATITUDE: N 33DEG 26MIN 00SEC LONGITUDE: W 110DEG 52MIN 45SEC

TOPO MAP NAME: INSPIRATION - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER

GOLD

SILVER

LEAD

BIBLIOGRAPHY:

ADMMR EAGLE PITCHER "T" FILE

ADMMR BONANZA FILE







BONANZA

GILA COUNTY

NJN WR 2/7/86: Joe Langlois, Dept. of Revenue, reported that at a recent visit to the Bonanza (f) Gila Co. Charlie Nichols reported that he would be shutting the leaching operation down soon. Apparently the values are not getting into solution or if the gold is dissolving it is precipitating in the heap before it can be recovered.

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RRB WR 2/21/86: A Mr. Brock from Oregon reports that he is conducting a study on the Bonanza Mine, Gila Co. The current heap leach operation has no provision to extract the coarse gold. Mr. Brock says that he is going to try a "stagnation leach" using pachuca tanks which will be followed by a gravity system. He believes that the portion of the ore containing the coarse gold can easily be separated for this treatment and the rest will continue to be heap leached.

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## BONANZA

## GILA COUNTY

KAP WR 12/6/85: While on the December 5, 1985 Forest Service field trip, we visited the Cyanide heap leaching operation run by Charlie Nichols. The operation is known as the Bonanza Mine (file), Gila County. The operation consists of 5 small open cut mines on gold bearing quartz veins along with an agglomeration and cyanide heap leaching facility. Mined ore is stockpiled until 10,000 tons is available. Then a portable crusher is brought into crush the entire stockpile. Depending on the ore it may then be agglomerated. Agglomeration takes place with the addition of 10 lbs. of portland cement per ton and added water on a series of three high angle short length conveyor belts. Cyanide is also added to the ore stream on the conveyor belt. The ore is then heaped on the pad in a 50' X 100' X 10' stack. A solution of sodium cyanide and lime is then sprinkled on the heap. The pregnant solution which drains from the heap is collected in a pond and pumped through a sand filter and a three stage carbon adsorption column. The gold (and silver) which has been adsorbed onto the carbon is then stripped off with a 1.5% sodium cyanide solution at 195°. No alcohol or pressure is used in stripping. Gold (and silver) is then electrowon from the stripping solution by plating it onto steel wool. A 50% solution of sulfuric acid is then added to the plated steel to dissolve the steel. The insoluble fraction is then filtered, melted and cast into dore' bars. The dore' with three parts added silver is treated with a hot 50% nitric acid to dissolve the silver and allow the gold to precipitate. The precipitate is melted and cast into relatively pure gold bars. The remaining solution now containing silver chloride which is filtered, fluxed and smelted to produce relatively pure silver bars. The leach pad was constructed by first grading off a sloped site and covering it with mill tailings. A vinyl sheet was placed over the tailings and a foot or two of tailings were bedded on top of the vinyl. Then a foot of fine crushed ore was placed on top of the tailings to complete the leach pad. The facility has been in operation for 6 months and has leached 4 heaps of 10,000 tons leached. The ore going onto the heaps was reported to assay 0.2 tr. oz Au/ton while the leached residue is reported to run 0.02 tr. oz. Au/ton. The leach cycle is 40 days. The leached residue is washed with fresh water and removed from the pad and discarded. A copy of the flow sheet was provided for the file. The operation goes by the name: Charlie Nichols Contractor, Bonanza Mine, P O Box 752, Globe, Arizona 85502; phone 425-7006, 425-7451 and 948-3260.

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KAP WR 12/6/85: In addition to the cyanide heap leach operations at the Bonanza Mine (file), Charlie Nichols is running a small placer gold operation on the same property. Using a high volume "Alaska" type sluice he is recovering a significant amount of coarse free gold from the local gullies. A number of 1/3 ounce nuggets along with a large amount of finer placer gold was exhibited.

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cc Joe, 10/22/84  
S.M.  
Please return  
Joe.



File → BONANZA

TIE to TUBBOY GOLD +  
COPPER CO IN MIN

BONANZA 1) UNSURVEYED TIN, RISE Sec 13  
NEW

## Office of State Mine Inspector

705 West Wing, Capitol Building  
Phoenix, Arizona 85007  
602-255-5971

### NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303\*, we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start stop (please circle one) a mining operation.

COMPANY NAME TRIPLE "N" ENTERPRISES, LTD.

CHIEF OFFICER Charlie Nichols

COMPANY ADDRESS P.O. Box 752 Globe, Arizona 85502

COMPANY TELEPHONE NUMBER 425-7006 or 425-0777

MINE OR PLANT NAME Bonanza

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

Go North on Highway 88 between Globe-Miami in Gila County, 2 miles

to Sleeping Beauty Road. Go West 1 & 3/4 miles to Sleeping Beauty

Pit. We join Sleeping Beauty pit on the South.

TYPE OF OPERATION Leaching PRINCIPAL PRODUCT Gold

STARTING DATE Oct 22, 1984 (app.) CLOSING DATE \_\_\_\_\_

DURATION OF OPERATION \_\_\_\_\_

PERSON SENDING THIS NOTICE Charlie Nichols

TITLE OF PERSON SENDING THIS NOTICE owner-operator

DATE NOTICE SENT TO STATE MINE INSPECTOR 10-3-84

10-15-84  
*Received in person*  
*JMK*

\*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.



MECHANICS AND CHEMISTRY DEC., 1985

CHARLIE NICHOLS CONTRACTOR  
 P.O. Box 752, Globe, AZ 85502  
 Tel.: Office (602) 425-7006  
 Home 425-7451  
 Globe  
 (602) 948-3260  
 Scottsdale

BONANZA MINE (file) Gilman Co.

