P. 9 38

COMMENTS:

This photo is a continuation to the west of the previous photo along the sample trench. In all cases, the preceeding photographs are taken looking southeast along the Contention dike at the northwest facing wall of the 40' north cross cut.

In each of these samples, the 60 pound sample is cut using a geology pick and caught in a 5 gallon, white, polyethelene paint bucket. A cut will be taken out of this 60 pound sample and approximately 8 to 10 pounds placed in the appropriate sample sack, as well as the small hand specimen retained in a transparent plastic bag with a duplicate number on it, in our standard S.E.A. manner. The bagged sample will be submitted to the State of Maine mine for crushing and splitting and standard shaker test cyanide analysis for gold and silver. The reject as well as the pulp will be kept on file for possible future fire assay. The remaining portion of the sample, approximating 50 pounds, will be run in a cyanide barrel leach test to determine the gold and silver cyanide soluability.

This is a control sample to determine what the assay is along the Contention vein, as this is the best exposure of the vein seen to date.

REVIEWED
AUG 20 1979
By

659

DISK 00-021

TIME: 5:58 MILEAGE: DATE: 08-23-79

PROJECT NO: P-413 BY: JAB

FIELD NO: P-JAB-83-10

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This is a panoramic view, intermediate close-up of the sample site with the bags tied to their respective pegs. A white polyethelene sampling bucket may be seen in the lower portion of the trench.

DISK 00-021. The date is Friday, August 24th, 1979. Purpose is sampling along the Tombstone Extension. Personnel at Tombstone from the S.E.A. office include JAB, TEW, JDK, and JCB. The location is Tombstone Hills, Tombstone Mining District, Cochise County, Arizona. The area is the Contention Extention area just south of the Boom Shaft.

TIME: 9:30 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-11; GS-4075

REVIEWED
AUG 20 1979
BY JB

P 1 # 8 38

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT: 1" = 100 foot rectified photos and 1" = 20 foot rectified color photos.

COMMENTS:

East side of Contention Extention sample trench. In the left hand portion of this frame, a backhoe trench can be seen. This was not sampled, though this 20 foot drift sample was taken on either side of the backhoe cut.

DISK 00-021

TIME: 9:33 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-12; GS-4076

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This sample abutts against sample 4075 and is also on the

REVIEWED

AUG 30 197

By

657

P+3

P 12 of 38

east flank of the Contention extension trench located immediately north of sample 4075. The pile of dirt on which the sample sack is sitting, represents a pillar left in what may be a gob-filled stope. There appears to be a westerly trending stope, may trend also east of the north-south trending Contention dike trench, the westerly extention line directly below the camera location. This cut is the subject of several samples to be depicted later. These sample numbers are: _____, _____, _____. In the right portion of this frame, a small hole can be seen in the open cut wall which may represent cave from a still covered cross cut. Rock type is for the most part Bisbee group sediments on the footwall which is the eastern side of the cut. The open cut itself is in Contention dike material.

DISK 00-021

TIME: 9:38 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-13; GS-4077

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

REVIEWED

AUG 30 1979

BY

656

FIELD PLOT:

COMMENTS:

This sample is from a channel chip drift cut adjacent and immediately north of 4076, with a length of 20 feet. A large P~~icmatic~~ Pick-maddtock was used to make the cut on the wall while a sampler filled the bag full of sample material. The pick cut should be easily visible in this photograph. Rock type again is a mixture of Bisbee group sediments with a few scabs of Contention dike material remaining on the foot wall.

DISK 00-021

TIME: 9:40 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-14; GS-4078

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This is a sample on the last 20 feet of the Contention extension open cut just south of the old foundations of the Boom shaft. Rock type is Bisbee group sediments with

REVIEWED

AUG 20 197

BY

P 14 of 38

small amounts of Contention dike material.

DISK 00-021

TIME: 9:42 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-15

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This photograph is on the same location as the preceeding photograph, but facing almost due north to slightly northeast. In the lower portion of the photo, the cave around the Boom shaft may be seen, with the cornish pump foundations of hand hewn Sheflin granodiorite blocks, with large bolts which secured the pump to the foundation visible on the top of the foundation platform. In the cave area sample sacks can be seen sitting against the far wall next to channel chip locations shown by the pistacio green paint. In all of the sampling done in the Contention extention area, drift samples will be indicated by red or orange paint, while cross cut samples (which

REVIEWED
AUG 30 19
BY

654

cross cut across bedding or vein features) will be shown with green paint so that the differentiation is obvious. The white line hanging over the caved area is our 300 foot fabric chain which we are measuring the locations of the samples.

DISK 00-021

TIME: 9:47 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-16; GS-4079

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Sample lies immediately north of GS-4078 and is a drift sample the edge of which abuts against the ~~Bomb~~ Boom shaft Cornish pump foundation. This sample is of shattered Bisbee group sediments.

DISK 00-021

TIME: 9:50 MILEAGE: DATE: 08-24-79

REVIEWED
AUG 30 1979
By

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-18; GS-4080

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This sample starts a series of cross cut samples around the perimeter of the southend of the Contention extention cut and the Boom shaft caved area. The locations of these samples are, starting on the northwest side of the Contention Extention open cut, extending on from the southwest side of the Boom shaft cave area, working northerly and clockwise around the west flank of the Boom shaft cave area to the north end where the Contention vein probably extends northward towards the Tranquility shaft.

This sample is in argillized and slightly silicified Contention dike porphyry.

DISK 00-021

TIME: 9:50 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

REVIEWED
AUG
BY
652

FIELD NO: P-JAB-83-17; GS-4081

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This is a cross cut sample taken on the southwest flank of the Boom shaft caved area. It consists of argillized and silicified Contention dike material.

DISK 00-021

TIME: 9:58 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-19; GS-4082

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This is a cross cut sample in argillized Contention dike

REVIEWED
AUG
By

material. Notice the short adit which only penetrates approximately 10 feet right into the wall, visible above the sample bag in the center portion of this frame.

DISK 00-021

TIME: 10:00 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-20; GS-4083

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This is adjacent into the north going counter clockwise around the Boom shaft cave from sample GS-4082. It also consists of argillized and in places silicified Contention porphyry. Camera faces southwest. This is an example of intensely argillized and weakly silicified Contention dike material in the hanging wall of the Contention vein. The camera faces north in this frame and to the right, is fill, probably gob, filling the Contention vein stope. This filled area suggests this vein is probably co-extensive with the Tranquility shaft lying to the

REVIEWED
AUG 30
By 650

north. In the foot wall is shattered Bisbee sediments represented by the next series of samples shown in the succeeding photo. Note the woven wire rope in the left portion of this frame, which was probably hoist rope used in the 1880's cage hoists.

DISK 00-021

TIME: 10:07 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-22

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This frame shows sample 4085, 4086, and 4087. They are sammpling shattered Bisbee group red beds for the most part. GS-4085 appears to be rather blocky and less interesting looking red beds, GS-4086 is shattered looking red beds, and GS-4087 is rather intensely shattered and manganese stained red beds, the mineralization of which is probably related to an en echelon fracture in footwall, back approximately 25 feet from the Contention dike and

REVIEWED
AUG
By

its associated vein.

Please refer to photo _____ above which is a panoramic view of this same scene.

DISK 00-021

TIME: 10:13 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-23; GS-4088

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

In this frame the camera faces south, looking essentially parallel to the Contention Extension open cut, but looking at the foot wall in which strongly shattered Bisbee group sediments dip east at approximately 38°. In this frame two sets of fractures are visible. The dip of the bedding is the fracture set dipping to the left in this frame, whereas the set dipping to the right at about 66°, is the joint set paralleling the Contention dike and vein.

REVIEWED
AUG 3 0 1979
By

648

Actually, this sample is taken improperly. It should have been two samples rather than one. Sampling the first 10 feet of the bleached green material, the cut off being at the right angled, green marked below the white tape. Inadvertently, the samplers took only one sample over 18.5 feet. I suspect that just the material in the first ten feet runs significant values. This may justify a second sampling at this location.

This sample starts a set going easterly along the cross cut bulldozed into the face of the pit wall of the Contention vein lying just south of the Boom shaft Cornish pump foundations. All of the rock here is shattered Bisbee group sediments which are, for the most part, fine to medium-grained arkosis which have been altered so that feldspar has gone to sericite and clay.

DISK 00-021

TIME: 10:17 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-24; GS-4089

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

REVIEWED

AUG 30 1979

By

647

FIELD PLOT:

COMMENTS:

This is a 9.9 foot cross cut sample across sericitized and manganese-stained Bisbee fine-grained arkose. In the left hand portion of this frame can be seen the shallow drift trench. The next set of samples will be located on the west face of this drift cut.

DISK 00-021

TIME: 10:20 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-25; GS-4090; GS-4091

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Camera faces west, southwest towards an east facing drift opening. In this frame, the sample location of 4090 is represented by a verticle green line indicating that it is cross cutting fracturing and apparent bedding in the sediments can be seen. The red horizontal line represents the location of sample 4091 and it is a drift sample

REVIEWED
AUG 30 19
BY
646

paralleling the bedding and vein trend. Note the black manganese oxide in this altered arkosic sandstone of the Bisbee Group sediments.

DISK 00-021

TIME: 10:24 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-26; GS-4092

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

The location of this sample is in the far south end of the Drift trench described in the preceeding sample description. This sample represents 11 feet cross cut along the back of this drift cut.

DISK 00-021

TIME: 10:25 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-27; GS-4093; GS-4094

REVIEWED
AUG 30 1979
BY

P 24 of 38

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

These samples are also cross cut samples proceeding from right to left, or west to east. Again, we are in the foot wall of the Contention dike structure and sample 4093 samples 5.5 feet of shattered fine-grained Bisbee group arkosis. Sample 4094 samples 3.6 feet of the same type of material.

DISK 00-021

TIME: 10:29 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-28; GS-4095

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

REVIEWED

AUG 30 1979

BY JB

644

Location sample adjacent and to the east of 4094 cutting shattered fine-grained Bisbee group arkosis. This sample represents 9.8 feet.

DISK 00-021

TIME: 10:30 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-29; GS-4096

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This is the last sample in the east-west cross cut south of the Boom shaft Cornish pump foundations. It consists of approximately 30 feet of shattered and weakly altered Bisbee group arkosis. It does not really look like it will contain any significant precious metal value.

DISK 00-021

TIME: 11:19 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

REVIEWED

AUG 30 1979

By

P 25 of 28

FIELD NO: P-JAB-83-30; GS-4100

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This is a cross cut sample on the west side of the Contention extension trench opposite sample 4075. Rock type is argillized and silicified Contention dike material. This sample represents 6 feet as annotated on the sample sack.

DISK 00-021

TIME: 11:23 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-31; GS-4099

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

REVIEWED

AUG 3 0 1979

By

642

Pt 4 P 28 8 38

COMMENTS:

This sample lies adjacent and comprises the 10.4 feet west and into the hanging well from sample 4100. The rock is altered and silicified Contention porphyry.

DISK 00-021

TIME: 11:25 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-32; GS-4098

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This sample is a drift sample over the caved stope opposite sample 4075, 4076. The sampling was done in a unique manner here as there are two modes of fracturing visible, one subhorizontal and one paralleling the face. The sample was taken in the following manner: 1/4 of the sample was taken paralleling the horizontal red paint line, and then 1/4 each of the remainder was taken along the 3 interior, verticle, red paint lines, so that a total of 18.8 feet of chip sample was taken representing this

REVIEWED
AUG 3 1
By

641

drift sample of approximately 6 to 7 feet in length. In this way, both the sub-horizontal vein system and the vein system paralleling the Contention vein are ~~over~~taken.

DISK 00-021

TIME: 11:29 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-83-33; GS-4097

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

A cross cut sample along the south face of the west trending hanging wall cross cut. Again, this is in argillized and silicified Contention dike material and represents 10 feet into the hanging wall above the old stope area.

DISK 00-021

TIME: 11:35 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

REVIEWED
AUG 19
By

P 28 B 28

FIELD NO: P-JAB-83-34

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This view shows the south end of the test heap with approximately 1/2 of the 6 N. 10 E. dump being ramp loaded onto the material previously on the heap from the bottom of the Contention. We are probably within a few hours of starting spraying on this material.

DISK 00-021

TIME: 4:25 MILEAGE: DATE: 08-24-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-1

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

REVIEWED
AUG 3 1985
By
639

COMMENTS:

Looking south from the north end of the small test leach pad and showing Steve Henderson's truck delivering the first load of rock from the Contention extension open cut. This is the first load of newly mined material to be placed on the pad.

DISK 00-021. The date is Sunday, August 26, 1979. Location is at Tombstone as noted yesterday.

TIME: MILEAGE: DATE: 08-25-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-2

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Looking southeast at the south end of the test pad where Steve Henderson is operating the cat D6B, moving out the leach pad from dumping ore from the 6 N 10 E dump as well as small amounts of ore from some backhoe trenching, and some gob material mined out of the trenches. Steve ramp dumped this material and is now smoothing and ripping the

REVIEWED

AUG 30 1979

By

top. We have not remeasured the volume of this dump, however, it contained about 350 tons before the addition of the 6 N 10 E dump and now probably contains about 1,000 tons of material. The grade of this material is probably in the range of $12 to $16 per ton total contained gold and silver, at the $9 per ounce silver and $300 per ounce gold price. White buckets in front of the dump are sample buckets from which a shovel full from each dump truck load was taken. Barrel tests will be run on these samples.

DISK 00-021

TIME: 8:30 MILEAGE: DATE: 08-25-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-3

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

The view looking northeast from the south end of the test pad. Again, Steve Henderson smoothing the top of the heap with the Cat D6B. Dusty Escapule is operating the State of Maine International payloader, repairing a backhoe cut

REVIEWED

AUG 30 1979

By

637

made in the leach pad by Dick Hewlitt to see whether the pad was leaking. Just to the left and in front of the payloader is the first load of ore from the Contention open cut.

DISK 00-021

TIME: 10:18 MILEAGE: DATE: 08-25-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-4

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This view is taken of the excavator pulling out foundation bolts for the hoisting engine that was on the 6 N 10 E shaft. These bolts, which can be seen behind the excavator bucket, are iron bolts approximately 2 feet high, set in hand hewn sheflin granodiorite blocks. This foundation was completely hidden by heavy brush up until 3 weeks ago when JAB had a crew brush out the edge of the Contention cut. It is necessary to pull out the blocks and the bolts so that the excavator can get in and make

REVIEWED
AUG 30 1979
By JB

sampling backhoe cuts on the edge of the Contention cut. The Contention cut only lies about 15 feet behind the position of the excavator and samples along its base in this area run between $35 and $40 per ton containing gold.

DISK 00-021

TIME: 10:20 MILEAGE: DATE: 08-25-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-5

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Another view of the excavator working on the foundation.

DISK 00-021

TIME: 10:37 MILEAGE: DATE: 08-25-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-6

OFFICE NO:

REVIEWED

AUG 30 1979

By

635

P 34 B 28

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

This frame looks northwest towards the town of Tombstone with the court house visible in the upper central portion of the frame to the right of the backhoe. Between the camera and the back hoe is the 6 N. 10 E. shaft, which is an incline shaft inclined to the left approximately 300 feet deep. To the right of the backhoe, towards the rear end, is the area of the old hoist foundations which were subject of the preceding two photographs. These have been pulled out at this time and the _____ is now cleaning off and setting the sides of the old Spoil Pile made trench along a vein which parallels the Contention Vein. This spoil pile is probably at least 50 years old and it is important that it not be co-mingled with new trench material. As soon as this is cleared away, we will be making a backhoe cut into the old trench and along the vein which parallels the Contention vein in sample it and determine its grade.

DISK 00-021

TIME: 10:40 MILEAGE: DATE: 08-25-79

REVIEWED

AUG 30 1979

By

634

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-7

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

A northerly view of the backhoe working inthe same area.

DISK 00-021

TIME: 10-43 MILEAGE: DATE: 08-25-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-9; P-JAB-84-10

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Photos 9 and 10, this is the first back hoe about drift sample #_____ in the Contention open cut. Notice

REVIEWED
AUG 0 2 197
BY

633

the pistachio green paint letters indicating 34.7 with green arrows above the orange paint. This indictes that the sample interval between the areas assays $34.70 combined silver and gold from a sample taken along the orange paint line. The backhoe trench will be a supper sample to be used for barrel testing and shaker...(end of tape)

DISK 00-021. The date is Sunday, Aug. 26, 1979. Location is Tombstone.

TIME: 2:15 MILEAGE: DATE: 08-26-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-10

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Distant view looking southeast towards Contention Hill and the International backhoe working on the east side of the Contention open cut, digging a sampling trench at right angles trending easterly from the Contention vein.

REVIEWED

AUG 30 1979

By

632

DISK 00-021

TIME: 3:42 MILEAGE: DATE: 08-26-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-11

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

Looking south-southeast along the Contention dike at trenching operations using the International Harvester backhoe.

DISK 00-021

TIME: 4:08 MILEAGE: DATE: 08-26-79

PROJECT NO: P-418 BY: JAB

FIELD NO: P-JAB-84-12; P-JAB-84-13

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

REVIEWED

AUG 10 1979

By

FIELD PLOT:

COMMENTS:

Looking easterly at the east wall of the Contention open cut from the south end. The backhoe loading, and dumping or cutting a sampling trench at right angles to the Contention vein structure. Green numbers in spray paint on the Contention cut wall indicate combined gold and silver content are $29.80 per ton taken along the orange drill sample cuts.

DISK 00-021

TIME: MILEAGE: DATE: 08-26-79

PROJECT NO: P-418 BY: JAB

FIELD NO:

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE MINING DISTRICT

T: R: SEC:

FIELD PLOT:

COMMENTS:

DISK 00-021

REVIEWED
AUG 30 1979
By

630

DAY/TIMER Time-Saver

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

LETTER 3-31

IN REFERENCE TO: P-418 Tombstone Project

FIRST CLASS MAIL ☐ INTER-OFFICE ☒

FOR Mr Al Watterson

HOW TO USE THIS DAY/TIMER Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE 8/22/79

Dear Al; Thankyou for the use of your '71 minerals data on the Toughnut, Tranquility and Empire Dumps. We've xeroxed copies for the SEA files, and should anything ever happen to your copies, ours will always be available to you.

With this note, I'm returning your three notebooks to you. Your signature indicates you've recieved them in good condition

SIGNED

REPLY

DATE FOLD

Recieved in Good Condition 3 note books

SIGNED E W (Al) Watterson

DAY/TIMER Time-Saver® REORDER FORM No. 82419L, DAY-TIMERS, Allentown, Pa. 18001

DAY-TIMER Time Saver LETTER

3-36

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712

(602) 795-6097

IN REFERENCE TO: D-418 - new tellurite minerals from Contention Area

FIRST CLASS MAIL ☒ INTER-OFFICE ☐

FOR Mr. Dave Rabb, Mining Engineer
Ariz. Bureau of Mineral Technology
Geology Building, Room 134
University of Ariz. 85721

HOW TO USE THIS DAY-TIMER Time Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE 8/22/79

Dear Dave; As per our telephone conv. this Am (JL #7858) please find enclosed a copy of Sid. Williams article in the Am. Mineralogist about the ~~the~~ new tellurate minerals from the Contention area, Tombstone. The deep green mineral I gave you today may be one of these, & if so could be of important scientific value. As Williams says these minerals are

SIGNED

REPLY

DATE

soluble in a basic solution, they may be cyanide soluble, unlike tellurides. Let me know what Bob O'Hare thinks.

Thanks for the help.

Jim Bassin

cc FAMCD

SIGNED Dr. John Dean

DAY-TIMER Time Saver REORDER FORM No. 82419L, DAY-TIMERS, Allentown, Pa. 18001

ESTIMATED EXPENDITURES FOR INVESTIVE EXPLORATION COMPANY — PAGE 1 of 1

FOR MONTH OF , 1979 PROJECT 418

ESTIMATED CAPITAL OUTLAYS	1 Aug 8TH 1979	2 Aug 9TH 1979	3 Aug 10TH 1979	4 Aug 11TH 1979	5 Aug 12TH 1979	6 Aug 13TH 1979	7 Aug 14TH 1979	8 Aug 15TH 1979	9 Aug 16TH 1979	10 Aug 17TH 1979	11 Aug 18TH 1979	12 Aug 19TH 1979
	2nd week				3rd week						4TH week	
A. SALARIES AND EXPENSES:												
1. J.A. Briscoe												
A. Salary												
B. Expenses (Per Diem)	20-		20-	20-				20-	20-		20-	20-
C. Expenses (misc.)												
2. T.E. WALDRIP												
A. SALARY												
B. Expenses (Per Diem)	10-		20-	20-				400-		20-	20-	20-
C. Expenses (misc.)												
3. Al WATTERSON												
A. SALARY								400-				
B. Expenses (AUTO)												
C. Expenses (MISC.)								-				
4. Dusty Escapule												
A. SALARY	400-							400-				
B. Expenses (AUTO)												
C. Expenses (misc.)												
5. Others												
A O.L. Nilson			200-									
B N. Scroggins			250-						-			
C B. Prior												
D J. Kasprowicz												
E J. Blankenship												
F. Secretarial												
G Accounting												
H												
I												
J												
K												
5-A Expenses												
A Per Diem												
B. Misc.												
6. Consultants												
A. John Dean												
B. Dave Rabb												
C												
D												
E.												
Page Total	430-	0	490-	40-	0	0	0	1220-	20-	20-	40-	40-

JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL FOR 1178 MADE IN U.S.A.

27

ESTIMATED EXPENDITURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF , 1979 PROJECT 418

	2nd Week				3rd week				4th week			
	1 Aug 8th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 10th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	430-	0	490-	40-	0	0	0	1220-	20-	20-	40-	40
6-A EXPENSES - CONSULTANTS												
A. Per Diem												
B. MISC												
Total SALARIES & LABOR EXPENSES.	$430	0	490-	40-	0	0	0	1220-	20-	20-	40-	40
B. OPERATING EXPENSES - CONSUMABLES:												
1. UTILITIES - PLANT												
A ELECTRICITY												
B. TELEPHONE												
C. RENT												
D.												
E.												
Total UTILITIES	0	0	0	0	0	0	0	0	0	0	0	
2. MINING SUPPLIES.												
A. Fuel												
B. LUBRICANTS												
C. Explosives												
D. Drill steel & BITS												
E.												
F.												
G. MISC.												
TOTAL MINING SUPPLIES	0	0	0	0	0	0	0	0	0	0	0	
3. METALLURGICAL CHEMICALS												
A. Sodium Thiosulphate (Hypo.)												
B. Sodium Chloride (SALT)												
C. Sulfuric Acid												
D NITRIC ACID												
E. LIME												
F ZINC												
PAGE TOTALS	430-	0	490-	40-	0	0	0	1220-	20-	20-	40-	40-

C WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR.

626

SC - Pay calif Wilmington, G.C.P. 10x20 3-145 1"

ESTIMATED EXPENDATURE FOR TOMBSTONE EXPLORATION COMPANY

FOR MONTH OF August, 1979 PROJECT 418

		2nd Week					3rd week					4th week	
	1	2	3	4	5	6	7	8	9	10	11	12
	Aug 6TH 1979	Aug 7TH 1979	Aug 13TH 1979	Aug 14TH 1979	Aug 12TH 1979	Aug 13TH 1979	Aug. 14TH 1979	Aug 15TH 1979	Aug 16TH 1979	Aug. 17TH 1979	Aug. 18TH 1979	Aug. 19TH 1979
1 CARRIED FORWARD	430-	0	490-	40-	0	0	0	1220-	20-	20-	40-	40-
2 G. Sodium Sulfide												
3 H. Sodium Hypochloride (BLEACH)												
4 I Sodium Cyanide												
5 J Sodium Hydroxide									60-			
6 K DE.												
7 L Silver NITRATE												
8 M Gold Chloride												
9 N Potassium Iodide												
10 O												
11 P												
12 Q												
13 R												
14 S												
15 T MISC.												
16												
17 TOTAL METALLURGICAL												
18 CHEMICALS	0	0	0	0	0	0	0	0	60-	0	0	0
19												
20 4. OFFICE SUPPLIES:												
21 A. POSTAGE												
22 B. XEROXING										10-		
23 C.												
24 D												
25 E												
26 F. MISC.										90-		
27												
28 TOTAL OFFICE SUPPLIES	0	0	0	0	0	0	0	0	0	100-	0	0
29												
30 C. OPERATING EXPENSES - FIXED ASSETS:												
31 1. LABRATORY - TESTING EQUIP.												
32 A. WATER PUMPS (SMALL)									150-			
33 B. BARRELS (PLASTIC)										30-		
34 C. BATH TUBS (PLASTIC)									150-			
35 D. LAB GLASS WARE									175-			
36 E. A.A. UNIT												
37 F. SCALE #'S OZ'S												
38 G DRYING OVEN												
39 H HOT PLATE												
40												
PAGE TOTAL	430-	0	490-	40-	0	0	0	1220-	555-	200-	40-	40-

WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR

225

ESTIMATED EXPENDATURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF ,1979 PROJECT 418

	2nd Week				3rd Week						4th Week	
	1 Aug 8th 1979	2 Aug 9TH 1979	3 Aug 10TH 1979	4 Aug 11TH 1979	5 Aug. 12TH 1979	6 Aug 13TH 1979	7 Aug 14TH 1979	8 Aug 15TH 1979	9 Aug. 16TH 1979	10 Aug. 17TH 1979	11 Aug. 18TH 1979	12 Aug. 19TH 19[illegible]
CARRIED FORWARD	430-	0	490-	40-	0	0	0	1220-	555-	200-	40-	40
I Squirrel Crusher												
J Pulviriser												
K Sample Sacks												
L Benches												
M Shaker												
N												
O												
P Misc.									75-			
TOTAL LAB EQUIPMENT	0	0	0	0	0	0	0	0	550-	80-	0	
2. LEACHING EQUIPMENT												
A. Percipation Plant.												
B. Plastic Pipe (PVC)												
C. Fittings (PVC)												
D. Sprinkler heads												
E Tanks (Storage)												
F. Pumps	95-											
G												
H												
I												
J												
K												
L												
M. Misc.												
TOTAL LEACHING EQUIPMENT	95-	0	0	0	0	0	0	0	0	0	0	
3. MINING EQUIPMENT:												
A.												
B.												
C												
D												
E. Misc.												
TOTAL MINING EQUIPMENT	0	0	0	0	0	0	0	0	0	0	0	
PAGE TOTALS	525-	0	490-	40-	0	0	0	1220-	630-	200-	40-	40

WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U

ESTIMATED EXPENDITURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

	2ND week			3rd week							4th week	
	1 Aug 8th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 12th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	525-	0	490-	40-	0	0	0	1220-	630-	200-	40-	40-
4. MILLING EQUIPMENT.												
A. JAW CRUSHER												
B. SCREENS												
C												
D												
E												
F. MISC.												
TOTAL MILLING EQUIPMENT	0	0	0	0	0	0	0	0	0	0	0	0
5. OFFICE EQUIPMENT												
A. Desks								100-				
B Chairs								35-				
C. CALCULATOR												
D TYPEWRITER												
E INVENTORY FILE								100-				
F												
G												
H												
I												
J												
K.												
L												
M. MISC.												
TOTAL OFFICE EQUIPMENT	0	0	0	0	0	0	0	235-	0	0	0	0
6. Building Fixtures												
A. Storage shelves												
B. Book shelves												
C. Exhaust FAN												
D. Light bulbs												
E. Door & Frame												
F.												
G.												
H.												
TOTAL BUILDING FIXTURES	0	0	0	0	0	0	0	0	0	0	0	0
PAGE TOTAL	525-	0	490-	40-	0	0	0	1455-	630-	200-	40-	40-

© WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

FILE P-418

ESTIMATED EXPENDITURES FOR THREEFOX EXPLORATION COMPANY 3.35 PAGE 1 of 9
FOR MONTH OF August, 1979 PROJECT 418 Prepared Aug 31, 197

	ESTIMATED CAPITAL OUTLAYS	2nd week 1 Aug 8TH 1979	2 Aug 9TH 1979	3 Aug 10TH 1979	4 Aug 11TH 1979	5 Aug 12TH 1979	6 Aug 13TH 1979	3rd week 7 Aug 14TH 1979	8 Aug 15TH 1979	9 Aug 16TH 1979	10 Aug 17TH 1979	4TH week 11 Aug 18TH 1979	12 Aug 19TH 1979
1	A SALARIES AND EXPENSES:												
2	1. J.A. BRISCOE												
3	A. SALARY												
4	B. Expenses (Per Diem)	20-		20-	20-				20-	20-		20-	20-
5	C. Expenses (misc.)												
6	2. T.E. WALDRIP												
7	A. SALARY												
8	B. Expenses (Per Diem)	10-		20-	20-				400-		20-	20-	20-
9	C. Expenses (misc.)												
10	3. Al WATTERSON												
11	A. SALARY								400-				
12	B. Expenses (AUTO)												
13	C. Expenses (misc.)												
14	4. Dusty Escapule												
15	A. SALARY	400-							400-				
16	B. Expenses (AUTO)												
17	C. Expenses (misc.)												
18	5. Others												
19	A O.C. Mills			200-									
20	B N. Scroggins			250-									
21	C B. Prior												
22	D J. Kasprowicz												
23	E J. Blankenship												
24	F. Secretarial												
25	G Accounting												
26	H												
27	I												
28	J												
29	K												
30	5-A Expenses												
31	A Per Diem												
32	B. Misc.												
33	6. CONSULTANTS												
34	A. JOHN DEAN												
35	B. Dave Rabb												
36	C.												
37	D.												
38	E.												
39													
40													
	PAGE TOTAL	430-	0	490-	40-	0	0	0	1220-	20-	20-	40-	40-

DRAFT

WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

22

ESTIMATED EXPENDITURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF , 1979 PROJECT 418

Prepared Aug 21, 1979.

	2nd Week				3rd Week						4th Week	
	1 Aug 6th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 12th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	430-	0	490-	40-	0	0	0	1220-	20-	20-	40-	40-
6-A EXPENSES - CONSULTANTS												
A. Per Diem												
B. MISC												
Total SALARIES & LABOR EXPENSES	$430	0	490-	40-	0	0	0	1220-	20-	20-	40-	40-
B. OPERATING EXPENSES - CONSUMABLES:												
1. UTILITIES - PLANT												
A ELECTRICITY												
B TELEPHONE												
C. RENT												
D.												
E.												
Total Utilities	0	0	0	0	0	0	0	0	0	0	0	0
2. MINING SUPPLIES.												
A. Fuel												
B. LUBRICANTS												
C. Explosives												
D. Drill Steel & BITS												
E.												
F.												
G. MISC.												
TOTAL MINING SUPPLIES	0	0	0	0	0	0	0	0	0	0	0	0
3. METALLURGICAL CHEMICALS												
A. Sodium Thiosulphate (Hypo)												
B. Sodium Chloride (SALT)												
C. Sulfuric Acid												
D Nitric Acid												
E. Lime												
F Zinc												
PAGE TOTALS	430-	0	490-	40-	0	0	0	1220-	20-	20-	40-	40-

DRAFT

SON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR. 1178 MADE IN U.S.A.

121

GC - Pon colit Dilmontine gcp 10x20 $145 1"

ESTIMATED EXPENDITURE FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

Prepared August 21, 1979

	2nd Week						3rd week				4th week		
	1 Aug 8TH 1979	2 Aug 9TH 1979	3 Aug 10TH 1979	4 Aug 11TH 1979	5 Aug 12TH 1979	6 Aug 13TH 1979	7 Aug 14TH 1979	8 Aug 15TH 1979	9 Aug 16TH 1979	10 Aug 17TH 1979	11 Aug 18TH 1979	12 Aug 19TH 1979
CARRIED FORWARD	430-	0	490-	40-	0	0	0	1220-	20-	20-	40-	40-
G. Sodium Sulfide												
H Sodium Hypochloride (BLEACH)												
I Sodium Cyanide												
J Sodium Hydroxide									60-			
K DE.												
L Silver NITRATE												
M Gold Chloride												
N Potassium Iodide												
O												
P												
Q												
R												
S												
T MISC.												
TOTAL METALLURGICAL CHEMICALS	0	0	0	0	0	0	0	0	60-	0	0	0
4. OFFICE SUPPLIES:												
A. POSTAGE												
B. Xeroxing										10-		
C.												
D												
E												
F. Misc.										90-		
TOTAL OFFICE SUPPLIES	0	0	0	0	0	0	0	0	0	100-	0	0
C. OPERATING EXPENSES - FIXED ASSETS:												
1. LABRATORY - TESTING EQUIP.												
A. WATER PUMPS (SMALL)									150-			
B. BARRELS (PLASTIC)										80-		
C. BATH TUBS (PLASTIC)									150-			
D. LAB GLASS WARE									175-			
E. A.A. UNIT												
F. SCALE #'s OZ'S												
G DRYING OVEN												
H HOT PLATE												
PAGE TOTAL	430-	0	490-	40-	0	0	0	1220-	555-	200-	40-	40-

DRAFT

WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR. 1178 MADE IN U.S.A.

620

ESTIMATED EXPENDITURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF , 1979 PROJECT #18

Prepared Aug 21, 1979

	2nd Week				3rd Week				4th Week			
	1 Aug 8th 1979	2 Aug 9TH 1979	3 Aug 10TH 1979	4 Aug 11TH 1979	5 Aug 12TH 1979	6 Aug 13TH 1979	7 Aug 14TH 1979	8 Aug 15TH 1979	9 Aug 16TH 1979	10 Aug 17TH 1979	11 Aug 18TH 1979	12 Aug 19TH 1979
CARRIED FORWARD	430-	0	490-	40-	0	0	0	1220-	555-	200-	40-	40-
I Squirrel Crusher												
J Pulviriser												
K Sample Sacks												
L Benches												
M Shaker												
N												
O												
P Misc.									75-			
TOTAL LAB EQUIPMENT	0	0	0	0	0	0	0	0	550-	80-	0	0
2. LEACHING EQUIPMENT												
A. Percipation Plant.												
B. Plastic Pipe (PVC)												
C. Fittings (PVC)												
D. Sprinkler heads												
E TANKS (STORAGE)												
F. Pumps	95-											
G												
H												
I												
J												
K												
L												
M. Misc.												
TOTAL LEACHING EQUIPMENT	95-	0	0	0	0	0	0	0	0	0	0	0
3. MINING EQUIPMENT:												
A.												
B.												
C												
D												
E. Misc.												
TOTAL MINING EQUIPMENT.	0	0	0	0	0	0	0	0	0	0	0	0
PAGE TOTALS	525-	0	490-	40-	0	0	0	1220-	630-	200-	40-	40-

DRAFT

WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

619

ESTIMATED EXPENDITURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

Prepared Aug 21, 1979

	2ND week			3rd week							4th week	
	1 Aug 8th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 12th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	525-	0	490-	40-	0	0	0	1220-	630-	200-	40-	40-
4. MILLING EQUIPMENT.												
A. JAW CRUSHER												
B. SCREENS												
C												
D												
E												
F. MISC.												
TOTAL MILLING EQUIPMENT	0	0	0	0	0	0	0	0	0	0	0	0
5. OFFICE EQUIPMENT												
A. Desks								100-				
B. Chairs								35-				
C. CALCULATOR												
D TYPEWRITER												
E INVENTORY FILE								100-				
F												
G												
H												
I												
J												
K.												
L												
M. MISC.												
TOTAL OFFICE EQUIPMENT	0	0	0	0	0	0	0	235-	0	0	0	0
6. Building Fixtures												
A. Storage shelves												
B. Book shelves												
C. Exhaust FAN												
D. Light bulbs												
E. Door & Frame												
F.												
G.												
H.												
TOTAL BUILDING FIXTURES	0	0	0	0	0	0	0	0	0	0	0	0
PAGE TOTAL	525-	0	490-	40-	0	0	0	1455-	630-	200-	40-	40-

DRAFT

ON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR. 1178 MADE IN U.S.A.

618

ESTIMATED EXPENDATURE FOR TOMESIDIS EXPLORATION COMPANY
FOR MONTH OF August , 1979 PROJECT 418

Prepared Aug 31, 1979

	2ND week				3rd week						4th week	
	1 Aug 8th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 12th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	525-	0	490-	40-	0	0	0	1455-	630-	200-	40-	40-
7. SAFTY EQUIPMENT												
A. FIRST AID KIT									35.00			
B. Rubber Aprons									19.00			
C. FIRE EXTINGUISHERS									50-			
D. STRECHER									60-			
E. SAFTY SIGNS									60-			
F												
G												
H												
I. MISC.									9-			
TOTAL SAFTY EQUIPMENT	0	0	0	0	0	0	0	0	$233.00	0	0	0
D. OPERATING EXPENSES (RENTALS)												
1. MINING RENTALS												
A. BULLDOZER D-6-B $35	1875-											
B. BACKHOE - TRACTOR $19								200-				
C. BACKHOE - CRAWLER $20												
D. FRONT END LOADER $25												
E. ROAD GRADER $25	75-											
F. DUMP TRUCKS $78/day												
G												
H												
I												
J												
K												
L												
M MISC.												
TOTAL MINING RENTAL EXPENSES	1950-	0	0	0	0	0	0	200-	0	0	0	0
2. MILLING RENTAL												
A.												
B.												
C.												
D												
E												
PAGE TOTALS	2475-	0	490-	40-	0	0	0	1655-	863-	200-	40-	40-

DRAFT

JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

617

ESTIMATED EXPENDATURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August , 1979 PROJECT 418

Prepared Aug 21, 1979

	2ND week				3rd week						4th week	
	1 Aug 8th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 12th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	2475-	0	490-	40-	0	0	0	1655-	863-	200-	40-	40-
F. misc.												
Total Mining Rental	0	0	0	0	0	0	0	0	0	0	0	0
3. Smelting & Refining Rental												
A. 60 ton Plant E. Escapule												
B.												
C.												
D.												
E												
F												
G. misc												
Total Smelting & Refining Rental	0	0	0	0	0	0	0	0	0	0	0	0
4. Office Equipment Rental												
A.												
B.												
C.												
D												
E.												
F.												
G misc.												
Total Office Equipment Rental	0	0	0	0	0	0	0	0	0	0	0	0
5. Misc Rental												
A												
B.												
C												
D												
E												
Total Misc Rental	0	0	0	0	0	0	0	0	0	0	0	0
Page total:	2475-	0	490-	40-	0	0	0	1655-	863-	200-	40-	40-

DRAFT

GEO. GN JONES COMPANY 7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

616

ESTIMATED EXPENDATURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

Prepared Aug 31, 1979

	2ND week				3rd week						4th week	
	1 Aug 8th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 12th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	2475-	0	490-	40-	0	0	0	1655 0	863-	200-	40-	40-
E Operating Expenses -												
Outside Services												
1. Assaying												
A. Skyline Labs Tucson												
B. Shakes Testing 16.00												360-
C. A.A. Analysis Ag-Au 31.75												
D												
E												
F												
G												
H. Misc												
Total Assaying Expenses	0	0	0	0	0	0	0	0	0	0	0	360-
2. Drafting & Reproduction - Supplies												
A. Tucson Blueprint								40-				
B. S.E.A. Drafting								10-				
C												
D.												
E.												
F												
Total Drafting & Reproduction Supplies	0	0	0	0	0	0	0	50-	0	0	0	0
3. Misc Services -												
A.												
B.												
C.												
D.												
E												
F												
G												
Total Misc. Services	0	0	0	0	0	0	0	0	0	0	0	0
Page Totals	2475-	0	490-	40-	0	0	0	1705-	863-	200-	40-	400-

DRAFT

JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR. 1178 MADE IN U.S.A.

615

ESTIMATE EXPENDITURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

	2ND week			3rd week								
	Aug 8th 1979	Aug 9th 1979	Aug 10th 1979	Aug 11th 1979	Aug 12th 1979	Aug 13th 1979	Aug 14th 1979	Aug 15th 1979	Aug 16th 1979	Aug 17th 1979	Aug 18th 1979	Aug 19th 1979
CARRIED FORWARD	2475-	0	490-	40-	0	0	0	1705-	863-	200-	40-	400-
E. Rentals-Other												
1. Apartment												
A) Gas-Electric												
B) Telephone								50-				
C) Rent								140-				
D)												
E) Misc.												
Total Apartment Rental	0	0	0	0	0	0	0	190-	0	0	0	0
2. SEA Equipment												
A. Vehicle	90-		180-							300-		
B. Survey Equip.												
C. Geophysical Equip.												
D.												
E.												
F.												
G.												
H.												
I												
Total SEA Equipment	90-	0	180-	0	0	0	0	0	0	300-	0	0
3. Property Lease												
A. TDC MINING CLAIMS PATENTED & UNPATENTED												
Total Property Lease	0	0	0	0	0	0	0	0	0	0	0	0
	2565-	0	670-	40-	0	0	0	1895-	863-	500-	40-	400-

DRAFT

C. ALSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

619

ESTIMATE EXPENDATURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

	2ND week			3rd week							4th week	
	1 Aug 8th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 12th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	2475-	0	490-	40-	0	0	0	1705-	863-	200-	40-	400-
F. Rentals—Other												
1. Apartment												
A) Gas - Electric												
B) Telephone								50-				
C) Rent								140-				
D)												
E) Misc.												
Total Apartment Rental	0	0	0	0	0	0	0	190-	0	0	0	0
2. SEA Equipment												
A. Vehicle	90-		180-							300-		
B. Survey Equip.												
C. Geophysical Equip.												
D.												
E.												
F.												
G.												
H.												
I												
Total SEA Equipment	90-	0	180-	0	0	0	0	0	0	300-	0	0
3. Property Lease												
A. TDC MINING CLAIMS PATENTED & UNPATENTED												
Total Property Lease	0	0	0	0	0	0	0	0	0	0	0	0
	2565-	0	670-	40-	0	0	0	1895-	863-	500-	40-	400-

DON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

613

ESTIMATED EXPENDATURES FOR TONTO OIL EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

	2ND week				3rd week						4th week	
	Aug 8th 1979	Aug 9th 1979	Aug 10th 1979	Aug 11th 1979	Aug 12th 1979	Aug 13th 1979	Aug 14th 1979	Aug 15th 1979	Aug 16th 1979	Aug 17th 1979	Aug 18th 1979	Aug 19th 1979
CARRIED FORWARD	2475-	0	490-	40-	0	0	0	1655 0	863-	200-	40-	40-
E Operating Expenses - Outside Services.												
1. Assaying												
A. Shelton Labs Tucson												
B. Shales Testing $6.00												360-
C. A.A. Analysis Ag-Au $1.75												
D												
E												
F												
G												
H. Misc												
Total Assaying Expenses	0	0	0	0	0	0	0	0	0	0	0	360-
2. Drafting & Reproduction - Supplies												
A. Tucson Blueprint								40-				
B. S.E.A. Drafting								10-				
C.												
D.												
E.												
F												
Total Drafting & Reproduction Supplies	0	0	0	0	0	0	0	50-	0	0	0	0
3. Misc Services -												
A.												
B.												
C.												
D.												
E												
F												
G												
Total Misc. Services	0	0	0	0	0	0	0	0	0	0	0	0
Page Totals	2475-	0	490-	40-	0	0	0	1705-	863-	200-	40-	400-

WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR. 1178 MADE IN U.S.A.

612

ESTIMATED EXPENDATURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August , 1979 PROJECT #12

	2ND week				3rd week						4th week	
	Aug 8th 1979	Aug 9th 1979	Aug 10th 1979	Aug 11th 1979	Aug 12th 1979	Aug 13th 1979	Aug 14th 1979	Aug 15th 1979	Aug 16th 1979	Aug 17th 1979	Aug 18th 1979	Aug 19th 1979
CARRIED FORWARD	2475-	0	490-	40-	0	0	0	1655-	863-	200-	40-	40-
F. misc.												
Total Mining Rental	0	0	0	0	0	0	0	0	0	0	0	0
3. Smelting & Refining Rental												
A. 100 TON PLANT E. Escapule												
B.												
C.												
D.												
E												
F												
G. misc												
TOTAL Smelting & Refining Rental	0	0	0	0	0	0	0	0	0	0	0	0
4. Office Equipment Rental												
A.												
B.												
C.												
D												
E												
F												
G misc.												
Total Office Equipment Rental	0	0	0	0	0	0	0	0	0	0	0	0
5. Misc Rental												
A.												
B.												
C.												
D.												
E												
Total Misc Rental	0	0	0	0	0	0	0	0	0	0	0	0
Page totals	2475-	0	490-	40-	0	0	0	1655-	863-	200-	40-	40-

SON JONES COMPANY 7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

119

ESTIMATED EXPENDATURE FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August , 1979 PROJECT 418

	2ND week			3rd week							4th week	
	1 Aug 8th 1979	2 Aug 9th 1979	3 Aug 10th 1979	4 Aug 11th 1979	5 Aug 12th 1979	6 Aug 13th 1979	7 Aug 14th 1979	8 Aug 15th 1979	9 Aug 16th 1979	10 Aug 17th 1979	11 Aug 18th 1979	12 Aug 19th 1979
CARRIED FORWARD	525-	0	490-	40-	0	0	0	1455-	630-	200-	40-	40-
7. SAFTY EQUIPMENT												
A. FIRST AID KIT									35.00			
B. Rubber Aprons									19.00			
C. FIRE EXTINGUISHERS									50-			
D. STRECHER									60-			
E. SAFTY SIGNS									60-			
F												
G												
H												
I MISC.									9-			
TOTAL SAFTY EQUIPMENT	0	0	0	0	0	0	0	0	$233.00	0	0	0
D. OPERATING EXPENSES (RENTALS)												
1. MINING RENTALS												
A. BULLDOZER D-6-B $35	1875-											
B. BACKHOE - TRACTOR $19												
C. BACKHOE - CRAWLER $20								200-				
D. FRONT END LOADER $25												
E. ROAD GRADER $25	75-											
F. DUMP TRUCKS $78/day												
G												
H												
I												
J												
K												
L												
M MISC.												
TOTAL MINING RENTAL EXPENSES	1950-	0	0	0	0	0	0	200-	0	0	0	0
2. MILLING RENTAL												
A.												
B.												
C.												
D												
E												
PAGE TOTALS	2475-	0	490-	40-	0	0	0	1655-	863-	200-	40-	40-

N JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

6/10

ESTIMATED EXPENDITURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

	4th week					5th week						
	1 Aug 20th 1979	2 Aug 21st 1979	3 Aug 22nd 1979	4 Aug 23rd 1979	5 Aug 24th 1979	6 Aug 25th 1979	7 Aug 26th 1979	8 Aug 27th 1979	9 Aug 28th 1979	10 Aug 29th 1979	11 Aug 30th 1979	12 Aug 31st 1979
CARRIED FORWARD	0	808-	2878-	50-	215-	560-	160-	0	0	2420-	25-	170-
4. MILLING EQUIPMENT.												
A. JAW CRUSHER												
B. SCREENS										200-		
C												
D												
E												
F. MISC.												
TOTAL MILLING EQUIPMENT	0	0	0	0	0	0	0	0	0	200-	0	0
5. OFFICE EQUIPMENT												
A. Desks		50-										
B. Chairs		16-										
C. CALCULATOR												
D TYPEWRITER												
E												
F												
G												
H												
I												
J												
K.												
L												
M. MISC.												
TOTAL OFFICE EQUIPMENT	0	66-	0	0	0	0	0	0	0	0	0	0
6. Building Fixtures												
A. Storage shelves												
B. Book shelves												
C. Exhaust FAN												
D. Light Bulbs												
E. Door & Frame					75-							
F.												
G.												
H.												
TOTAL BUILDING FIXTURES	0	0	0	0	75-							
PAGE TOTAL	0	874-	2878-	50-	290-	560-	160-	0	0	2620-	25-	170-

CYES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

ESTIMATED EXPENDITURES FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

	4TH week					5TH week						
	Aug 20TH 1979	Aug 21ST 1979	Aug 22ND 1979	Aug 23rd 1979	Aug 24TH 1979	Aug 25TH 1979	Aug 26TH 1979	Aug 27TH 1979	Aug 28TH 1979	Aug 29TH 1979	Aug. 30TH 1979	Aug. 31ST 1979
CARRIED FORWARD	0	726-	2603-	50-	215.00	560-	160-	0	0	2420-	25-	170-
I Squirrel CRUSHER												
J PULVIRISER												
K SAMPLE SACKS												
L BENCHES			200-									
M SHAKER												
N												
O												
P MISC.												
TOTAL LAB EQUIPMENT.	0	100-	200-	0	0	0	0	0	0	0	25-	25-
2. LEACHING EQUIPMENT												
A. PERCIPATION PLANT.												
B. PLASTIC PIPE (PVC)												
C. Fittings (PVC)			75-									
D. Sprinkler heads *4.54		82.00										
E. TANKS (STORAGE)												
F. Pumps												
G												
H												
I												
J												
K												
L												
M. MISC.												
TOTAL LEACHING EQUIPMENT	0	82-	75-	0	0	0	0	0	0	0	0	0
3. MINING EQUIPMENT:												
A.												
B.												
C												
D												
E. MISC.												
TOTAL MINING EQUIPMENT.	0	0	0	0	0	0	0	0	0	0	0	0
PAGE TOTALS	0	808-	2878-	50-	215.00	560-	160-	0	0	2420-	25-	170-

ONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

ESTIMATED EXPENDITURE FOR TOMBSTONE EXPLORATION COMPANY
FOR MONTH OF August, 1979 PROJECT 418

	4th week					5th week						
	1 Aug. 20TH 1979	2 Aug 21ST 1979	3 Aug 22nd 1979	4 Aug 23rd 1979	5 Aug 24TH 1979	6 Aug. 25TH 1979	7 Aug. 26TH 1979	8 Aug. 27TH 1979	9 Aug. 28TH 1979	10 Aug. 29TH 1979	11 Aug. 30TH 1979	12 Aug. 31ST 1979
CARRIED FORWARD	0	600-	2603-	40-	21500	560-	160-	0	0	2420-	0	125.00
G. Sodium Sulfide												
H Sodium Hypochloride (BLEACH)												
I Sodium Cyanide												
J Sodium Hydroxide												
K DE.												
L Silver Nitrate		20-										
M Gold Chloride												
N Potassium Iodide		6-										
O												
P												
Q												
R												
S												
T MISC.												
TOTAL METALLURGICAL CHEMICALS	0	26-	0	0	0	0	0	0	0	0	0	0
4. OFFICE SUPPLIES:												
A. POSTAGE												10-
B. Xeroxing				10-								10-
C.												
D												
E												
F. MISC.												
TOTAL OFFICE SUPPLIES.	0	0		10-	0	0	0	0	0	0	0	20-
C. OPERATING EXPENSES - FIXED ASSETS:												
1. LABRATORY - TESTING EQUIP.												
A. WATER PUMPS (SMALL)												
B. BARRELS (PLASTIC)												25.00
C. BATH TUBS (PLASTIC)		55-										
D. LAB GLASS WARE		20-									25-	
E. A.A. UNIT												
F. SCALE #'S OZ'S												
G DRYING OVEN												
H HOT PLATE		25-										
PAGE TOTAL	0	726-	2603-	50-	2150	560-	160-	0	0	2420-	25-	170-

N JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1170 MADE IN U.S.A.

FOR MONTH OF August, 1979 PROJECT 418 — LIMESTONE EXPLORATION COMPANY

	4th week					5th week						
	1 Aug 20th 1979	2 Aug 21st 1979	3 Aug 22nd 1979	4 Aug 23rd 1979	5 Aug 24th 1979	6 Aug 25th 1979	7 Aug 26th 1979	8 Aug 27th 1979	9 Aug 28th 1979	10 Aug 29th 1979	11 Aug 30th 1979	12 Aug 31st 1979
CARRIED FORWARD	0	0	2603-	40-	40-	310-	160-	0	0	2420-	0	0
6-A EXPENSES - CONSULTANTS												
A. Per Diem												
B. MISC						250-						
Total SALARIES & LABOR EXPENSES	0	0	2603-	40-	40-	560-	160-	0	0	2420-	0	0
B. OPERATING EXPENSES - CONSUMABLES:												
1. UTILITIES - PLANT												
A. ELECTRICITY												
B. TELEPHONE		600-										
C. RENT												
D.												
E.												
Total UTILITIES	0	600-	0	0	0	0	0	0	0	0	0	0
2. MINING SUPPLIES:												
A. Fuel												
B. LUBRICANTS					160-							
C. Explosives					26-							100-
D. Drill steel & BITS												25-
E.												
F.												
G. MISC.												
TOTAL MINING SUPPLIES	0	0	0	0	175.00	0	0	0	0	0	0	125.00
3. METALLURGICAL CHEMICALS												
A. Sodium Thiosulphate (Hypo)												
B. Sodium Chloride (SALT)												
C. Sulfuric Acid												
D. NITRIC ACID												
E. LIME												
F. ZINC												
PAGE TOTALS	0	600-	2603-	40-	215.00	560-	160-	0	0	2420-	0	125.00

© W. L. BEN JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

606

ESTIMATED EXPENDITURES FOR TAMESTONE EXPLORATION COMPANY

FOR MONTH OF August, 1979 PROJECT 418

ESTIMATED CAPITAL OUTLAYS	1 Aug 20TH 1979	2 Aug 21ST 1979	3 Aug 22nd 1979	4 Aug 23rd 1979	5 Aug 24TH 1979	6 Aug 25TH 1979	7 Aug 26TH 1979	8 Aug 27TH 1979	9 Aug 28TH 1979	10 Aug 29TH 1979	11 Aug 30TH 1979	12 Aug 31ST 1979
	4TH Week						5TH Week					
A SALARIES AND EXPENSES:												
1. J.A. BRISCOE												
A. SALARY												
B. EXPENSES (Per Diem)			20-	20-	20-	20-	20-					
C. EXPENSES (MISC.)												
2. T.E. WALDRIP												
A. SALARY			650-							650-		
B. EXPENSES (Per Diem)			20-	20-	20-	20-	20-					
C EXPENSES (MISC.)												
3. Al WATTERSON												
A. SALARY			400-							400-		
B. EXPENSES (AUTO)			16-									
C. EXPENSES (MISC.)												
4. Dusty Escapule												
A. SALARY			400-							400-		
B. EXPENSES (AUTO)			77-							100-		
C. EXPENSES (MISC.)												
5. Others												
A O.C. Millin												
B N. Scroggins			50-									
C B Prior			250-									
D J. Kasprowicz			175-							175-		
E J. Blankenship										150-		
F. Secretarial			250-							250-		
G Accounting			175-							175-		
H Truck Drivers						120-	120-					
I												
J												
K												
5-A Expenses												
A Per Diem			120-							120-		
B. Misc.												
6. CONSULTANTS												
A. JOHN DEAN						150-						
B. DAVE RABB												
C												
D												
E.												
PAGE TOTAL	0	0	2603-	40-	40-	310-	160-	0	0	2420-	0	0

WILSON JONES COMPANY G7212 GREEN 7212 BUFF PAT. APPL. FOR 1178 MADE IN U.S.A.

605

BARREL TEST SAMPLING

Purpose of Barrel Test Sampling:

1. Percolation of ore to be leached.
2. Consumption of reagents.
3. A-A Assay of solution = Oz. per ton solution.
4. Reduced to Oz of metal per ton ore.

@ Net weight of solution - by dry weight of ore = ratio X A.A. assay solution = Oz. per ton ore.

Procedure:

50# ore Barrel Test

Bring in approximately 150 - 200# of sample. Split down sample, take 1/2 of split, weigh out 50#.

Note: On backhow cuts when samples are taken at time of cutting ditch, normal moisture will be considered dry weight of ore. This situation could be corrected by drying small sample of all ore to determine actual dry weight of ore, but it is time consuming and expensive. If samples of cuts are taken at a later time and rains or high humidity has been in effect, then samples should be dried and moisture content figured.

When samples are taken at time of digging cut; at least one sample should be dried to determine average moisture content.

This average moisture content shall be considered in tare weight of samples.

When 50# dry ore has been determined then:

11 liters of West Side water will be added to Barrel Test system with 11 grams of NACN, which will equal// 1 lb. NACN per ton of ore and approximately 2.2 to 2.5 lbs. NACN per tons of solution. This determined by NACN Titration. Before introduction of NACN to 11 liters of solution, approximately 6 grams of NAOH should be added and PH checked.

Dry weight of ore, tare weight, amount of solution and reagents added and starting time should be duly recorded.

Note: From time of starting Barrel Test to the end of test, solutions assays may be taken at any interval of hours depending on procedure set-up.

Every time a solution assay is taken it is of extreme importance that complete BarrelTest weight is taken. Subtract weight of apparatus, (tare), and weight of dry ore which will give weight of solution remaining. Weight of solution remaining (net weight minus ore) = weight of solution. Weight of solution divided by dry weight of ore will give ratio number. Ratio number X A-A solution assay Oz per ton of solution will - Oz per ton ore.

NACN & NAOH Titration of samples xxxxx extracted will be taken and PH of solution. All duly recorded. From original NACN & NAOH lbs per ton of ore titration will indicate amount of reagents used in X number hours per ton. If tests are to continue for more hours, addition of NACN or NAOH may be necessary otherwise solution will possibly reprecipitate.

Any Barrel Test tested more than 24 hours will have to have solution added due to evaporation and retention in ore.

When adding solution to Barrel Test, first the NACN titration should be double checked and NACN % added to solution to bring solution up to 1 lb per ton of solution which is approximately 1/2 original solution titration. Therefore liquid and weight measurements should be made accurately.

As long as solution is accurate as per % of NACN any amount may be added, since net weight of solution will determine actual assay.

Besides running out of solution, the most important reasons for adding to it and the amount added ~~is~~ are:

1. Continuous recirculation.
2. If solution gets to low on richer ores A-A will peak therefore requiring dilution of assays which reduces accuracy of A-A assay.

Note: All over time of Barrel Test should be set at a reasonable time, 24 - 48 hours. Suggest 24 hours which will prove in 24 hours amount of ore that can be leached in that time which will show whether ore is/~~economically~~/feasible to leach. It does not tell the
/economically/
total amount that can be leached.

Periodical extended leaches of Barrel Test will give a % rate against a 24 hour leach.

Note:

At this time I am reportingon pit run ore which, in the Tombstone area, approximately 30 to 35% of the silver will be extracted. Approximately 55% of the gold will be ~~mix~~ extracted.

No test on TDC property ore have been made on sieve analysis and crushing to my knowledge.

At the time of this report we are planning on a complete sieve analysis and crushing test program on main 71 Minerals heap and open pit potential.

Resume':

In heap leaching ~~it~~ is mandatory to set up a definite time, amount (tons) and reagent %'s in Barrel Test. Long term test, larger test and various reagent %'s can be tested to create a % figure between constant test and ultimate test, therefore creating a proporation and ratio between reality and actuality.

Heap leaching is not a true science and regardless of percentages achieved; the cost of operations against the materials produced shows either profit or loss. If a profit can be made with a low percentage recovery then it is economically plausible to go ahead with limited production and take time to improve recovery; through re-leaching, crushing and screening or pit run leached ores.

Professional advice would be welcome.

TECHNICAL INFORMATION ON 50# BARREL TEST

Titration of NACN:

STANDARD SILVER NITRATE SOLUTION. ($AgNO_3$)

8.67 grams $AgNO_3$ per liter of distilled water.
Then 1 ml. is equivalent to 1 pound of cyanide when a 10 ml solution sample is taken for titration.

Two or three drops of 10% Potassium Iodide may be added to aid in determining the end point.

Titration of NAOH

TITRATING TO DETERMINE ALKALINITY IN TERMS OF NaOH (caustic soda)

If3.937 grams of Oxalic acid crystals be dissolved and made up to liter with distilledwater, then taking 25 cc sample, the number of cc of standard acid used times 0.01% free alkali in terms of NaOH, or time 0.2 equals it's equivalent in pounds of NaOH per ton of solution.

BARREL TEST SOLUTION

$$\frac{50\#\ \text{ORE WT.}}{2000\ \text{lbs.}} \times 454 \text{ grams NACN} = 1 \text{ lb NACN per ton ore.}$$

$$\frac{2000}{\text{Ore wt.}\ 50\ \#} \div \frac{454}{40} = 11.35$$

E W Watterson

602

8-17-79

RECEIVED AUG 20 1979

Jim.

Thought you might want to put this in your file on Tstone.

Thanks so much for the time you spent with Frank Gallup and I when we were in your office 1st of mo.

Hope you are getting things going the way you want.

Thanks

Bill Hight

REVIEWED

AUG 20 1979

BY JAB

FILE JAB Tombstone Site

601

RECEIVED AUG 20 1979

REVIEWED

AUG 20 1979

By

Khinite, parakhinite, and dugganite, three new tellurates from Tombstone, Arizona

S. A. WILLIAMS

Reprinted from
THE AMERICAN MINERALOGIST
September-October, 1978

600

American Mineralogist, Volume 63, pages 1016–1019, 1978

Khinite, parakhinite, and dugganite, three new tellurates from Tombstone, Arizona

S. A. Williams

Phelps Dodge Corporation
Douglas, Arizona 85607

Abstract

0003-004X/78/0910-1016$02.00

599

P07 6193103

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO
Dr Dean Box 230
STREET AND NO.
Central Rt 2
P.O., STATE AND ZIP CODE
North Scituate, RI 02857

POSTAGE	$2.25
CERTIFIED FEE	.80 ¢
SPECIAL DELIVERY	¢
RESTRICTED DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED	.45 ¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES	$3.50
POSTMARK OR DATE	

CONSULT POSTMASTER FOR FEES
OPTIONAL SERVICES
RETURN RECEIPT SERVICE

PS Form 3800, Apr. 1976

P07 6193102

RECEIPT FOR CERTIFIED MAIL

3 of NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
(See Reverse)

SENT TO
Dwight Lee Jamco
STREET AND NO.
700 Broadway 22 floor
P.O., STATE AND ZIP CODE
New York NY 10019

POSTAGE	$.41
CERTIFIED FEE	.80 ¢
SPECIAL DELIVERY	¢
RESTRICTED DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED	.45 ¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES	$1.66
POSTMARK OR DATE	

CONSULT POSTMASTER FOR FEES
OPTIONAL SERVICES
RETURN RECEIPT SERVICE

PS Form 3800, Apr. 1976

3-33

RECEIVED AUG 20 1979

REVIEWED
AUG 20 1979
By

4 January 1979
P.O. Box 872
Douglas AZ 85607

William Hight
Tombstone Development Co
Box 1445
Grand Island Nebraska 68801

Dear Mr. Hight:

During the course of my mineralogical studies in the Tombstone district I have found a number of new tellurium minerals in very small quantities on the remains of the dumps. As you know, most of the material has been removed by 71 minerals and destroyed by leaching operations. Last year I obtained permission from 71 minerals to spend two days digging in the few remaining waste piles with a backhoe in an effortto find more materials for study. This was partially successful, and the reprint I enclose is an example of the results of those efforts.

The reason I write is to ask permission to do a small amount of additional work on the Grand Central and Old Guard claims, again digging into the remains of certain portions of the dumps. There are several other new tellurates in these two areas but too little has been found so far to characterize them.

If you could give me this permission I would be happy to provide you with a release of liability and I assure you that the digging done would be of very minor nature, causing no damage to the property.

Sincerely,

Sidney A. Williams

SAW/s

Copy

594

3-33
RECEIVED AUG 20 1979

FILE

JAB Tombstone File

REVIEWED
AUG 30 1979
By JB

P. O. Box 872
Douglas, AZ 85607
April 30, 1979

William Hight
Tombstone Development Co
Box 1445
Grand Island, Nebraska 68801

Dear Mr. Hight:

As I promised I am writing to tell you that I dug at the Grand Central dump on March 5 and 6; the dig was delayed a week by equipment breakdowns. I was told while there that TDC had leased the ground about the first of the month so probably my presence there was questionable.

Six pieces were found during the dig, each containing at least one of the new tellurites/tellurates I spoke of earlier. One also contains a lead tellurite known only from Las Cruces, New Mexico previously. Although only six pieces were found, I would term the project a success, and again I want to thank you for your permission.

Sincerely,

Sidney A. Williams

SAW:bj

593

TODAY IS SUNDAY, AUGUST 19, 1979. THE AREA IS THE CONTENTION OPEN CUT AREA. PERSONNEL INCLUDE JAB, TEW, DUSTY ESCAPULE AND AL WATERSON. WE ARE OPERATING THE STATE OF MAINE MINE, INC. INTERNATIONAL HARVESTOR HYDRAULIC BACKHOE TO DIG CROSSCUT TRENCHES AT RIGHT ANGLES TO THE CONTENTION VEIN SYSTEM.

TIME: MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-18; P-JAB-82-19

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

THE INTERNATIONAL HARVESTER BACKHOE DIGGING A TRENCH AT RIGHT ANGLES TO THE CONTENTION VEIN IN THE VERY NORTHEAST PART OF THE CONTENTION OPEN CUT.

TIME: 9:15 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-20

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

DUSTY ESCAPULE USING THE STATE OF MAINE INTERNATIONAL FRONT END LOADER TO PICK UP DEBRIS FROM THE BACKHOE TRENCH DUG WITH THE ESCAPULE GEODISIC BACKHOE NORTHWARD FROM THE NORTH END OF THE CONTENTION OPEN CUT. WE ARE PREPARING TO MAKE A BACKHOE CUT USING THE LARGE I.H. MACHINE, CUTTING AT RIGHT ANGLES TO THE VEIN, STARTING AT THE NORTH END OF GEOCHEM SAMPLE #4062. THIS SAMPLE LOCATION SHOWS IN THE BOTTOM PORTION OF PHOTO 20. WE BELIEVE THAT WE ARE ON THE VEIN INDICATED BY STRONG BRECCIATION OF SEDIMENTS AND CONTENTION DIKE MATERIAL CUT RECEMENTED BY ALUNITE MATERIAL WITH LIGHT ORANGISH JAROSITE ~~#~~ in IT.

AT THE NORTH END OF SAMPLE 4062, THERE APPEARS TO BE A VERY SOFT ZONE THAT IS EITHER VERY WELL MINERALIZED, OR POSSIBLY A STOPE. WE ARE GOING TO REACH IN WITH THE LONG BOOM ON THE BACKHOE AND DIG INTO THIS MATERIAL. IT WILL THEN BE SAMPLED.

REVIEWED
AUG 30 1979
BY JB

TIME: 9:21 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-21; P-JAB-82-22

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

THE START OF THE WEST END OF THE BACKHOE CUT.

TIME: 9:23 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-23; P-JAB-82-24

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

VIEW FROM THE PROXIMITY OF THE CAB ON THE BACKHOE TOWARDS THE BEGINNING OF THE CUT. TEW APPEARS IN THE UPPER LEFT HAND PORTION OF THIS PHOTO.

((NOTE FROM DEC OPERATOR - NO ENTRY FOR PHOTO 25 WAS GIVEN)
TIME: 10:50 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-26

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

SAME LOCATION AS 25. EXCAVATION OF THE BACKHOE TRENCH TO APPROXIMATELY 20 FEET DEEP REVEALED A STOPE ALONG A VERY RICH-LOOKING VEIN. IN ORDER TO CLEAR THE TRENCH SO THAT MATERIAL DOES NOT FALL IN FROM THE SIDE DURING THIS SAMPLING OPERATION, IT IS NECESSARY TO BULLDOZE AND CLEAN OFF THE LOOSE MATERIAL AROUND THE EDGE OF THE TRENCH. THIS PHOTO SHOWS THAT OPERATION WITH THE COWEN D6B CAT PUSHING AND THE I.H. BACKHOE IN THE RIGHT PORTION OF THE FRAME.

REVIEWED
AUG 30 1979
BY JB

TIME: 3:06 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-27

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

LOOKING INTO BACKHOE CUT. AT THE BOTTOM OF THIS CUT WHERE THE BACKHOE DIPPER IS, THERE ARE SQUARE SET TIMBERS EXPOSED AND A DRIFT WHICH PARALLELS THE CONTENTION VEIN.

TIME: 3:07 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-28

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

LOOKING NORTH-NORTHEASTERLY ACROSS THE PREVIOUS CROSS CUT BACKHOE CUT INTO AN EXCAVATION ALONG A STOPE OPENED UP BY THE BACKHOE.

TIME: 3:11 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-29

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

SAMPLE CUT THROUGH CONTENTION VEIN, THE MOST NORTHERLY CROSSCUT.

TIME: 3:12 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-30

REVIEWED
AUG 30 197
BY JB

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

LOOKING SOUTHERLY FROM THE BACKHOE TRENCHING ALONG THE CONTENTION VEIN TO THE NORTH OF THE CONTENTION OPEN CUT. THIS VIEW LOOKS SOUTH TOWARDS THE LARGE PART OF THE CONTENTION OPEN CUT.

TIME: 3:18 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-31

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

VIEW LOOKING DOWN INTO THE OPEN STOPE. NOTICE THE BIG CRACKS IN THE HANGING WALL WITH DARK, ROTTED TIMBERS SHOWING IN THE BOTTOM OF THE TRENCH. THE HANGING WALL IS JUST ABOUT TO FALL IN AND SO TO AVOID A DANGEROUS CONDITION, THE BACKHOE WAS USED TO PULL IT INTO THE OPEN TRENCH.

TIME: MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-32; P-JAB-82-33; P-JAB-82-34

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

THE RESULTS OF JUST A LITTLE BIT OF PROBING WITH THE BACKHOE, LOOSING QUITE A FEW TONS OF DANGEROUS ROCK.

TIME: 3:35 MILEAGE: DATE: 08/19/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-34

REVIEWED
AUG 10 1979
BY

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE MINING DISTRICT, TOMBSTONE HILLS
T: R: SEC:

FIELD PLOT: CONTENTION OPEN CUT AREA
COMMENTS:

LOOKING NORTH-NORTHEASTERLY AT THE CAVED IN HANGING WALL OF THE OLD GOB-FILLED STOPE EXPOSED EARLIER BY THE BACKHOE. A BARREL TEST SAMPLE WAS DUG OUT USING THE BACKHOE FROM THE HANGING WALL OF THE VEIN. THE POINT SAMPLE BEING WHERE TOM WALDRIP IS STANDING IN THIS PHOTO. THE BARREL TEST SAMPLE LIES DIRECTLY BEHIND THE BACKHOE.

REVIEWED
AUG 9 1979
BY

588

DAY/TIMER Time-Saver

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

LETTER

3-31

IN REFERENCE TO: P-418 Tombstone project. Daily Reports

FIRST CLASS MAIL ☒ INTER-OFFICE ☐

FOR Mr. Dwight Lee, President
FAMCO

HOW TO USE THIS DAY/TIMER Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

FOLD

DATE 8/18/79

Transmitted herewith are: ~~my~~
1. My daily reports for Aug. 9 - 16, 1979
2. Two state Mine inspectors reports for Aug. 1 & Aug. 9, 1979
3. JAB dictated photo & sample notes from the Contention open cut 20' drift-channel-chip samples

cc: John Dean
Tombstone Office

SIGNED JAB

REPLY

DATE FOLD

SIGNED

DAY/TIMER Time-Saver® REORDER FORM No. 82419L, DAY-TIMERS, Allentown, Pa. 18001

3-30
APPROVED
AUG 18 1979
By

Tombstone Development Company

P. O. BOX 1445 TELEPHONE 308/382-7480
GRAND ISLAND, NEBRASKA 68801

August 15, 1979

FILE P-2118 SAB file

RECEIVED AUG 18 1979

Mr. James A. Briscoe
Southwestern Exploration Associates
4500 East Speedway- Suite 14
Tucson, Arizona 85712

Dear Jim:

Am attaching copy of the "Western Prospector & Miner" which gave rise of some concern to Bill Hight regarding proper filing dates. Although you have proably been apprised of the changes, Bill asked me to mail this to you and it need not be returned.

Needless to say, I have thought about you several times--first, that it was a pleasure to make your acquaintance and see the results of your efforts and then the task you had to perform with Dick. Hope the later went satisfactorily for you.

Sincerely,

Frank

Frank E. Gallup

Passed on to TEW - CDG.

586

RECEIVED AUG 15 1979

3-29

here samples

Office of State Mine Inspector

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

REVIEWED
AUG 17 1979
By FB

REPORT OF VISIT

COMPANY NAME: SEA HYDROMETALLURGY

MINE/PLANT NAME: 71 Minerals Leach Dump & Contention Dump

ADDRESS: 4500 East Speedway, Suite 14
Tucson, Arizona 85712

PHONE NUMBER: 795-6095

ID #:

TYPE OF OPERATION: Pad Leach

NEAREST TOWN: Tombstone

COUNTY: Cochise

NEAREST MILEPOST: 315.6

VISITED BY: Vernon Dale
Deputy Mine Inspector

DATE OF VISIT: August 9, 1979

COMMENTS: Richard Hewlett, Gen. Mgr., has resigned from the company. Southwestern Exploration Associates in Tucson are presently doing feasibility studies on the operation. I called James Briscoe, President of S.E.A., to advise that if an open pit operation is planned, underground maps of the old Contention operation must be obtained and overlays made for each level. Danger areas to the open pit operation can then be spotted and staked out on the surface. I requested the Phoenix office to mail Mr. Briscoe a copy of the last inspection report. There was no one on the property at the time of this visit.

cc: James Briscoe

6/79

585

DAY/TIMER Time-Saver

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

LETTER

3-28

IN REFERENCE TO: P-418 Tombstone Apache Pro Co. potential buyer

FIRST CLASS MAIL ☒ INTER-OFFICE ☐

FOR Dwight Lee, FAMCD
1700 Broadway, 22nd Floor
New York N.Y. 10019

HOW TO USE THIS DAY/TIMER Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

FOLD

DATE 8/15/79

Dwight:

Attached is a response from Apache Pro Company to my telephone description to them of the Tombstone project. As can be seen on page 2, a presentation package would be necessary.

I feel sure that others would also be interested in a Tombstone purchase

SIGNED [signature]

REPLY

DATE FOLD

SIGNED

Saver® • REORDER FORM No. B2419L, DAY-TIMERS, Allentown, Pa. 18001

584

DAY/TIMER Time-Saver

LETTER

3-27

Southwestern Exploration Assoc., Inc.
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

IN REFERENCE TO: Tombstone Sampeling

FIRST CLASS MAIL ☐ INTER-OFFICE ☐

FOR JAB,

HOW TO USE THIS DAY/TIMER Time-Saver LETTER TO SAVE TIME.
Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: August 14, 1979

FOLD

Questions I have regarding the work:

1) Do you have the photo base maps for the sampling work? Yes
2) Will there by underground sampling? NO
3) Are samples to be collected in bags or 50 lb cans (JEW mentioned these)? std Bags & 50 Lb bags
4) Are these samples going to remain in T'stone? yes

I would like to go over these questions w/ you this PM. I plan to live Tucson by 6:15 am tomorrow.

FOLD FOLD

BY BMP

REPLY

DATE:

BY

DAY/TIMER Time-Saver® REORDER FORM No. 82420L. DAY-TIMERS, Allentown, Pa. 18001

3-26

DAY/TIMER Time-Saver LETTER

Southwestern Exploration Associates
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712
(602) 795-6097

IN REFERENCE TO: P-418
samples collected
8/15/79 - 8/16/79

FIRST CLASS MAIL ☐ INTER-OFFICE ☐

FOR

HOW TO USE THIS DAY/TIMER Time-Saver LETTER TO SAVE TIME.
Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE:

FOLD

Sample #	Location	Distance from N. end of trench	discription of sample	assay for Ag, Au
4031	E WSCF*	0 - 20 feet		.92 " .017
4030	"	20 - 40 "		.39 " .014
4029	"	40 - 60 "		2.24 " .031
4028	"	60 - 80 "		1.04 " .017
4027	"	80 - 100 "		.98 " .011
4026	"	100 - 120 "		1.54 " .010
4025	"	120 - 140 "		.55 " .008
4024	"	140 - 160 "		.85 " .026
4023	"	160 - 180 "		2.50 " .040
4022	"	180 - 200 "		.98 " .017
4021	"	200 - 220 "		3.52 " .029
4020	"	220 - 240 "		.39 " .008
4019	"	240 - 260 "		.07 " TR
4018	"	260 - 280 "		.11 " TR
4017	"	280 - 300 "		.08 " .008
4016	"	300 - 320 "		.21 " .011
4015	"	320 - 340 "		.77 " .023

important

FOLD

BY

REPLY

DATE:

4014	"	340 - 360 "		1.68 " .049
4013	"	360 - 380 "		.62 " TR
4012	"	380 - 400 "		1.22 " .010
4011	"	400 - 420 "		.16 " .008
4040	"	420 - 440 "		.54 " .052
4037	"	440 - 460 "		.36 " .014
4036	"	460 - 480 "		.56 " .008
4035	"	480 500 "		.21 " .017
4034	"	500 - 520 "		.20 " TR
4033	"	520 - 540 "		.28 " TR
4032	"	540 - 560 feet		.24 " TR

* WSCF = west side of contention fault
ESCF = east " " " "

BY

DAY/TIMER Time-Saver ORDER FORM No. 82420L, DAY-TIMERS, Allentown, Pa. 18001

3-26

ORDER FOR ANALYTICAL SERVICES

P-418
Samples collected
8/15-16/79

Samples Sent to:

SKYLINE LABS, INC.
P.O. BOX 50106 • 1700 WEST GRANT ROAD
TUCSON, ARIZONA 85703
(602) 622-4836

Address Report To: West side of Contention Fault Trench

(Report and invoice in duplicate will be sent to above address unless otherwise instructed)

SHIPMENT NO.:
DATE SHIPPED:
SHIPPED VIA:
NO. OF CARTONS:
NO. OF SAMPLES:
(Information above helps us trace lost shipments)

Send Invoice To:

Send Copy of Report To:

PAYMENT FOR SERVICES REQUESTED MUST ACCOMPANY ORDER UNLESS CREDIT ARRANGED

LIST SAMPLE NOS.	DESCRIBE MATERIAL Location	LIST ELEMENTS TO BE DETERMINED (Give anticipated range of values, if possible) Describe any special sample preparation procedures desired. DISTANCE from S. END OF Contention fault trench	Sample decription	INDICATE METHOD OF ANALYSIS*		✓ IF 31 – ELEMENT EMISSION SPEC SCAN DESIRED
4041	WSCFT	0 - 20 feet		Ag	Au	
4042	"	20 - 40 "		.08	TR	
4044	"	40 - 60 "		.16	NIL	
4045	"	60 - 80 "		.17	.008	
4046	"	80 - 100 "		.08	TR	
4047	"	100 - 125 "		.16	TR	
~~4048~~	~~"~~	~~[illegible]~~				

INSTRUCTIONS (Use Continuation Sheet If Necessary)

*METHOD OF ANALYSIS: G-Geochem, Q-Quantitative or Routine Assay
W-Wet Assay, F-Fire Assay

†SAMPLE STORAGE: Pulps stored 90 days pending instructions, bulk rejects stored 30 days pending instructions.

Enclose yellow original with samples, send white copy by mail, retain pink copy. White copy will be returned to shipper as an acknowledgement that shipment has been received.

INDICATE DESIRED DISPOSITION OF SAMPLES AFTER ANALYSIS	Bulk Rejects	Pulp
Return at customer's expense via:		
Store temporarily pending instructions†		
Discard immediately		

581

ORDER FOR ANALYTICAL SERVICES

P-418
Samples collected
8/15-16/79

Samples Sent to:

SKYLINE LABS, INC.
P.O. BOX 50106 • 1700 WEST GRANT ROAD
TUCSON, ARIZONA 85703
(602) 622-4836

Address Report To: West side of Contention Fault Trench

(Report and invoice in duplicate will be sent to above address unless otherwise instructed)

SHIPMENT NO.:
DATE SHIPPED:
SHIPPED VIA:
NO. OF CARTONS:
NO. OF SAMPLES:
(Information above helps us trace lost shipments)

Send Invoice To:

Send Copy of Report To:

PAYMENT FOR SERVICES REQUESTED MUST ACCOMPANY ORDER UNLESS CREDIT ARRANGED

LIST SAMPLE NOS.	DESCRIBE MATERIAL location	LIST ELEMENTS TO BE DETERMINED (Give anticipated range of values, if possible) Describe any special sample preparation procedures desired. Distance from S. END of contention fault trench	Sample decription	INDICATE METHOD OF ANALYSIS*		✓ IF 31 – ELEMENT EMISSION SPEC SCAN DESIRED
4041	WSCFT	0 - 20 feet		Ag	Au	
4042	"	20 - 40 "		.08	TR	
4044	"	40 - 60 "		.16	NIL	
4045	"	60 - 80 "		.17	.008	
4046	"	80 - 100 "		.08	TR	
4047	"	100 - 125 "		.16	TR	
~~4048~~	~~"~~	~~[illegible]~~				

(Use Continuation Sheet If Necessary)

INSTRUCTIONS

*METHOD OF ANALYSIS: G-Geochem, Q-Quantitative or Routine Assay
W-Wet Assay, F-Fire Assay

†SAMPLE STORAGE: Pulps stored 90 days pending instructions, bulk rejects stored 30 days pending instructions.

Enclose yellow original with samples, send white copy by mail, retain pink copy. White copy will be returned to shipper as an acknowledgement that shipment has been received.

INDICATE DESIRED DISPOSITION OF SAMPLES AFTER ANALYSIS	Bulk Rejects	Pulp
Return at customer's expense via:		
Store temporarily pending instructions†		
Discard immediately		

580

3-25
P-418
Samples collected 8/16-17/79

ORDER FOR ANALYTICAL SERVICES

Samples Sent to:

SKYLINE LABS, INC.
P.O. BOX 50106 • 1700 WEST GRANT ROAD
TUCSON, ARIZONA 85703
(602) 622-4836

West side of contention fault trench

Address Report To:

(Report and invoice in duplicate will be sent to above address unless otherwise instructed)

SHIPMENT NO.:
DATE SHIPPED:
SHIPPED VIA:
NO. OF CARTONS:
NO. OF SAMPLES: 22
(Information above helps us trace lost shipments)

Invoice To:

Send Copy of Report To:

PAYMENT FOR SERVICES REQUESTED MUST ACCOMPANY ORDER UNLESS CREDIT ARRANGED

LIST SAMPLE NOS.	DESCRIBE MATERIAL	DISTANCE from S. END of CONTENTION Fault trench	LIST ELEMENTS TO BE DETERMINED (Give anticipated range of values, if possible) Describe any special sample preparation procedures desired.	LOCATION	INDICATE METHOD OF ANALYSIS*	✓ IF 31 – ELEMENT EMISSION SPEC SCAN DESIRED
4048		224 - 244 ft		WSCF	Ag Au	
4049		244 - 264 "		"	.03 " NIL	
4050		264 - 284 "		"	.11 " NIL	
4051		284 - 304 "		"	.19 " TR	
4052		304 - 324 "		"	.30 " .008	
4053		324 - 337 "		"	.19 " TR	
4054		414 - 434 "		"	.84 " .017	
4055		434 - 454 "		"	.22 " TR	
4056		454 - 474 "		"	.30 " TR	
4057		474 - 494 "		"	.10 " TR	
4058		494 - 514 "		"	.24 " .005	
					.36 .005	
4059		474 - 494 "		Center Cont'n Fault	1.16 " .011	
4060		494 - 514 "		"	.53 " TR	
4061		514 - 534 "		"	.80 " .017	
4062		534 - 554 "		"	.83 " .014	
4063		0 - 20 ft		N. side E. End X-cut	.52 " .014	
4064		20 - 40 ft		" " "	.14 " .008	
4065		30 - 50 ft		S. side W. end X-cut	.02 " TR	
4066		50 - 64 ft		" " "	.07 " .031	
4067		0 - 20 ft		W. side pit N. of X-cut	.07 " .005	
4068		0 - 20 ft		E. side pit N. of X-cut	.03 " NIL	
4069		0 - 8 ft		adit x-cut	1.24 " .017	

(Use Continuation Sheet If Necessary)

INSTRUCTIONS

*METHOD OF ANALYSIS: G-Geochem, Q-Quantitative or Routine Assay
W-Wet Assay, F-Fire Assay

SAMPLE STORAGE: Pulps stored 90 days pending instructions, bulk rejects stored 30 days pending instructions.

INDICATE DESIRED DISPOSITION OF SAMPLES AFTER ANALYSIS	Bulk Rejects	Pulp
Return at customer's expense via:		
Store temporarily pending instructions†		
Discard immediately		

Enclose yellow original with samples, send white copy by mail, retain pink copy. White copy will be returned to shipper as an acknowledgement that shipment has been received.

ACKNOWLEDGEMENT

579

ORDER FOR ANALYTICAL SERVICES

P-418
Samples collected 8/16-17/79

Samples Sent to:

SKYLINE LABS, INC.
P.O. BOX 50106 • 1700 WEST GRANT ROAD
TUCSON, ARIZONA 85703
(602) 622-4836

West side of contention fault trench

Address Report To:

(Report and invoice in duplicate will be sent to above address unless otherwise instructed)

SHIPMENT NO.:
DATE SHIPPED:
SHIPPED VIA:
NO. OF CARTONS:
NO. OF SAMPLES: 22
(Information above helps us trace lost shipments)

Send Invoice To:

Send Copy of Report To:

PAYMENT FOR SERVICES REQUESTED MUST ACCOMPANY ORDER UNLESS CREDIT ARRANGED

LIST SAMPLE NOS.	DESCRIBE MATERIAL	LIST ELEMENTS TO BE DETERMINED (Give anticipated range of values, if possible) Describe any special sample preparation procedures desired.		INDICATE METHOD OF ANALYSIS*	✓ IF 31 – ELEMENT EMISSION SPEC SCAN DESIRED
		Distance from S. end of Contention fault trench	Location		
4048		224 - 244 ft	WSCF	Ag Au	
4049		244 - 264 "	"	.03 " NIL	
4050		264 - 284 "	"	.11 " NIL	
4051		284 - 304 "	"	.19 " TR	
4052		304 - 324 "	"	.30 " .008	
4053		324 - 337 "	"	.19 " TR	
4054		414 - 434 "	"	.84 " .017	
4055		434 - 454 "	"	.22 " TR	
4056		454 - 474 "	"	.30 " TR	
4057		474 - 494 "	"	.10 " TR	
4058		494 - 514 "	"	.24 " .005	
				.36 .005	
4059		474 - 494 "	center Cont'n Fault	1.16 " .011	
4060		494 - 514 "	"	.53 " TR	
4061		514 - 534 "	"	.80 " .017	
4062		534 - 554 "	"	.83 " .014	
4063		0 - 20 ft	N. side E. end X-cut	.52 " .014	
4064		20 - 40 ft	" " "	.14 " .008	
4065		30 - 50 ft	S. side W. end X-cut	.02 " TR	
4066		50 - 64 ft	" " "	.07 " .031	
4067		0 - 20 ft	W. side pit N. of X-cut	.07 " .005	
4068		0 - 20 ft	E. side pit N. of X-cut	.03 " NIL	
4069		0 - 8 ft	adit X-cut	1.24 " .017	

INSTRUCTIONS (Use Continuation Sheet If Necessary)

*METHOD OF ANALYSIS: G-Geochem, Q-Quantitative or Routine Assay
W-Wet Assay, F-Fire Assay

†SAMPLE STORAGE: Pulps stored 90 days pending instructions, bulk rejects stored 30 days pending instructions.

INDICATE DESIRED DISPOSITION OF SAMPLES AFTER ANALYSIS	Bulk Rejects	Pulp
Return at customer's expense via:		
Store temporarily pending instructions†		
Discard immediately		

Enclose yellow original with samples, send white copy by mail, retain pink copy. White copy will be returned to shipper as an acknowledgement that shipment has been received.

SENDER COPY

578

MEMO

TO: FAMCO

Mssrs. Tom Schloss and Dwight Lee

FROM: J. A. Briscoe, Southwestern Exploration Associates

DATE: Wednesday, August 15, 1979

SUBJECT: Project 418 - Tombstone Project, Daily Report
Wednesday, August 15, 1979

At Tombstone AW and DE start work - gather together equipment needed for preliminary work in preparation for weekend mining test. This includes Robert Cowen (ph) D6B Catapillar bulldozer, road grader to be used in preparing the roads for the trucks, Escap~~ool~~ule Geodisic (ph) backhoe to be used in sampling the dump on the N.E. side of the Contention Cut. that must be moved and also in backhoe trenching in the open cut area, and State of Maine Mine, Inc. International front end loader to be used to repair the test leach pad and to off load previously tested rock to make room for this weekends mining test material.

Tucson: TEW spends the entire day running down equipment, working on price lists, etc. in preparation for this weekend's test. JAB telephone conversation with Dwight Lee reference TC-7802, 6:37 through 6:54, review work at Tombstone with Dwight

Lee and pass on the Mountain Bell phone number Douglas so that he can pursue arrangements for telephones on the Tombstone project. Between approximately 7:00 and 8:00 A.M. preparation for departure to Tombstone is undertaken. At approximately 8:00 A.M., JAB departed for Tombstone in one Blazer while BMP and JDK also departed in a second Blazer. Arrival in Tombstone at 9:36.

Reviewed open cut procedure with AW. Then spent the time from approximately 10:14 through 12:12 instructing BMP and JDK in sample collection procedure. The sample procedure used initially is as follows:

> The objectives of this first sampling campaign is to get a general idea of the tenor of rock exposed on the east side of the Contention open cut. Therefore, a 300 foot cloth surveying tape was layed along the east side of the Contention open cut and assay samples were taken by the channel chip method over 20 foot intervals, irrespective of rock or structural changes. The method used was to take a geology pick and chip fragments in a continuous chip sample into the cloth sample bag which holds approximately 8 to 10 pounds of material. The sample sack was filled completely full and tied securely. Then a plastic rep sample sack with the same number was filled with an adequate number of representative chip samples for later geologic reference. The location of the chip sample was marked with orange fluorescent spray paint and the ends were marked with wooden pegs with metal

embossable tags with the sample number on them. The Contention open cut was found to be 590 feet long so that approximately thirty 20 foot channel chip samples will be required from each side of the cut. It is realized that this samples parallel the structure exposed in the cut, but later surface backhoe cuts will be made at right angles to the Contention vein structures for samples at right angles to the cut. Samples taken along the cut will give us some indication of the tenor of the vein system along its length.

A check was delivered to State of Maine Mine, Inc. in the amount of $500 for analytical work.

The remainder of the afternoon until 4:00 was spent in getting some paycheck problems straightened out and one telephone call reference 7805 was made to Dwight Lee in New York confirming order of $6,200 in expense money and lack of success in negotiating for a reduced rate from the telephone company.

James A. Briscoe

JAB/db
00-029

MEMO

TO: FAMCO

Mssrs. Tom Schloss and Dwight Lee

FROM: J. A. Briscoe, Southwestern Exploration Associates

DATE: Wednesday, August 15, 1979

SUBJECT: Project 418 - Tombstone Project, Daily Report
Thursday, August 16, 1979

Tucson

TEW continues with paper work and purchase of necessary equipment for Tombstone barrel test lab setup, and required first aid material to meet EMSHA requirements. This required entire day, running around picking up various supplies.

Tombstone

People on the job in Tombstone included JAB, Bruce M. Prior, and John Kasprowicz, geologists from S.E.A., Inc., Al Waterson, and Dusty ~~Escapool~~ Escapole, project employees.

BMP and JDK continued sampling the periphery of the Conten-

tion open cut on 20 foot intervals, using standard sample sacks containing approximately 8 to 10 pounds of rock. Again, these are ~~grid~~ drift samples paralleling the elongation of the Contention dike and fault system. At about 2:30 this afternoon, approximately 30 of these samples were delivered to the State of Maine Mine for crushing, pulverizing, and shaker cyanide tests analyses. Unfortunately, a power switch over to three phase power is underway at the State of Maine operation and they will be without electricity until about Friday noon. Thus, little progress can be made on the samples. The most important samples, approximately five in number from the northeast side of the Contention cut will be pulverized by hand and the analyses returned to us about noon tomorrow. However, most of the samples will not be ready until Monday.

The main task for the day, aside from sampling, was getting the leach pad prepared for the mine test and preparing the northeast end of the Contention open cut for the backhoe mining test.

Dusty Escapule spent the day in the following manner:

Used the State of Maine Mine International front end loader to off load the last leach test from the test leach pad and set it to one side. He also repaired the backhoe cuts in the leach pad that were placed to test for leakage in the pad. The pad was then repaired. Dusty spent the remainder of the day preparing the haul road from the northeast end of

the Contention down to the test leach pad. This will require a graded road in order for the trucks to operate efficiently and for this to be a valid mine test. The bulldozer Cat. D6B was used to dig down to bedrock through soil cover in the northeast edge of the Contention open cut for a truck turnaround, and also for rock sampling to determine how wide the mineralization is along the Contention open cut. The bulldozer could approach no closer than about 20 feet from the edge of the cut because of the danger of cave in and the loss of the bulldozere and its driver. The afternoon was spent in this endeavor, and apparently mineralized Bisbee Group sediments were exposed for some distance back to the east from the edge of the Contention cut.

Al Waterson performed the following:

1. Put a backhoe sample trench through the dump on the north-east side of the Contention cut. This dump will have to be moved to allow mining along the cut, and we believe that it may be of ore grade material. Thus, the backhoe cut through the dump, in order that drill test samples could be taken to determine the leachable gold and silver content of the cut.

2. Backhoe cut from the north end of the Contention open cut along the trend of the Contention vein to approximately 60 feet north of the cut. This area may contain mineralization that could be mined in the mine test. BMP and JDK will take

channel chip samples of this backhoe cut on Friday. If these are positive, barrel test samples will then be taken.

3. After lunch, Al Waterson, using the S.E.A., Inc. transit, surveyed in the perimeter of the Contention open cut, as well as the toe of the Contention open cut. This will allow us to calculate exact volumes removed and determine where the original edge of the cut was after it has been mined. This was necessary for assaying and mine control work.

4. The late afternoon Al Waterson operated the Escapule Geodesic backhoe to remove overburden from the northeast edge of the Contention open cut. It was too close to the edge for the bulldozer to get, in preparation for the open pit mining operation.

JAB performed the following work during the day:

1. Supervision of sample collecting, and lining out work for the various members of the crew. Spent an hour discussing various equipment with LEM Robson of Modern Equipment Inc. LEM described the various mining equipment available on the lease purchase plan from Modern Equipment and the mining rates of the various sized backhoes that are available were discussed, as well as other approaches that might be used in mining the Contention open cut area. LEM suggested the use

of a large front end loader as a load-haul-dump unit to transport material from the Contention open cut area to the leach pad. In this manner, only one piece of equipment will be necessary for both mining and hauling until distance necessitated ore trucks.

2. JAB photographed and dictated notes on each sample site and then transported the samples to the State of Maine Mine lab. A tour was taken with Charlie Escap~~ool~~ala to examine the results of the backhoe work over the last day or so ~~as~~ because the type of rock and type of operation is applicable to our mine test at the Contention open cut.

3. Geologic examination of the bulldozer cuts on the northeast end of the Contention open cut, as well as further sample description and photography and supervision of the sampling operation occupied the remainder of the afternoon.

4. JAB returned to Tucson, leaving Tombstone at about 7:30; arriving Tucson at about 9:00 P.M.

At this point preparation for barrel testing, and the progress of sampling is approximately a day behind schedule. Because of the importance of leach testing before any mining commences, it was the concensus opinion that the mine test should be postponed until the following weekend. This weekend will be

MEMO

TO: FAMCO

Mssrs. Tom Schloss and Dwight Lee

FROM: J. A. Briscoe, Southwestern Exploration Associates

DATE: Wednesday, August 15, 1979

SUBJECT: Project 418 - Tombstone Project, Daily Report
Monday, August 13, 1979

Al Waterson and Dusty Escap~~ool~~ off.

JAB made telephone report to Dwight Lee of FAMCO at approximately 8:45 Arizona time. Continued report from 9:30 to 10:41 Tucson time. Spoke with Dave Rabb of the Arizona Bureau of Mines regarding operations in Tombstone, at 11:15 to 11:24 reference TC-7787. Spoke again with Dwight Lee at 1:45 reference TC-7788. Again spoke with Dave Rabb 1:46 to 2:05 reference TC-7789. Conference call with Dwight Lee, the FAMCO office New York, Dr. John Dean in his New York Home, Dave Rabb of the Arizona Bureau of Mines at his office at the Bureau, and JAB at his S.E.A. Tucson office. Discussed previous week's work at Tombstone, the proposed mining and metallurgical test and procedures for additional test work. Everybody was in agreeance that if test work were carefully done, the mining test proposed by JAB using the backhoe

to reach over the edge of the Contention open cut

_____ to avoid problems with open stopes ~~to~~ proceed the following weekend. should

TEW spent all day Monday working on running down prices for various equipment for a laboratory, making cost projections, laying out budgetary items, etc.

James A. Briscoe

JAB/db

P-418

00-021

MEMO

TO: FAMCO

Mssrs. Tom Schloss and Dwight Lee

FROM: J. A. Briscoe, Southwestern Exploration Associates

DATE: Wednesday, August 15, 1979

SUBJECT: Project 418 - Tombstone Project, Daily Report
Sunday, August 12, 1979

Heavy rains precluded the work at Tombstone. AW and DE were given Sunday, Monday and Tuesday off in anticipation of working the following Saturday and Sunday on the mining and leach test. Al Waterson, who just arrived last week, needed the time to get moved into his new home in Tombstone. JAB returned to Tucson on Sunday.

James A. Briscoe

JAB/db

P-418

00-021

MEMO

TO: FAMCO

Mssrs. Tom Schloss and Dwight Lee

FROM: J. A. Briscoe, Southwestern Exploration Associates

DATE: Wednesday, August 15, 1979

SUBJECT: Project 418 - Tombstone Project, Daily Report

Tuesday, August 14, 1979

Al Waterson and Dusty Escap~~ool~~nle off.

JAB - telephone report and conference with Dwight Lee reference TC-7793, #819326 regarding mining test. Various tries to get in contact with the Escap~~ools~~niles which were unsuccessful until contacted Charlie Escap~~ool~~nle at 4:04 to 4:26 reference TC-7794. Found out the following:

1. That his delivery date on a large plant--45 days because of parts availability. Cost is $16,500 which includes all required tankage.

2. Small plant delivery is 30 days. Cost is $3,750.

3. Charge on shaker test samples - $6 per sample including all

crushing, grinding, splitting, cyanide dissolution and AA analysis for gold and silver from resulting cyanide solutions.

For AA determinations on our solutions from barrel testing, charge will be $1.75. Charles or Louie Escap~~ool~~ule will prepare procedure sheet on shaker test for John Dean.

4. We will be able to use the International front end loader for $25 per hour whereas they are renting it to everyone else for $35 per hour.

5. They will charge us $20 per hour for the backhoe, including fuel and Charlie Escap~~ool~~ule offered to run the backhoe.

Two additional phone calls from Dwight Lee reference TC-7799 and TC-7800 regarding future in long range of the Tombstone project. JAB suggested that best future potential was for discovering high grade underground ore such as had been mined in the past, but that substantial open pit ore ~~should~~ could be discovered in the Contention area.

James A. Briscoe

James A. Briscoe

MEMO

TO: FAMCO

Mssrs. Tom Schloss and Dwight Lee

FROM: J. A. Briscoe, Southwestern Exploration Associates

DATE: Wednesday, August 15, 1979

SUBJECT: Project 418 - Tombstone Project, Daily Report

Saturday, August 11, 1979

Starting at approximately 7:00 A.M., JAB and TEW started geologic mapping procedures in the Contention open cut.

At 10:00 A.M. TEW and JAB met AW and DE at DE's kitchen table to work out detailed price lists of equipment needed. After reviewing what was necessary, JAB left the three others at work--to visit Ernie Escap~~ool~~ne.

A visit with Ernie Escapool revealed that he is extremely unhappy because of a complex series of horse trading by RFH. Ernie Escap~~ool~~ne (DE's father) found that all of his various tools and equipment had been used by RFH on a no pay basis at RFH's convenience while Ernie was away in Mexico. The situation does not sit well with Ernie and his opinion is that we are even as far as accounts between us go, including our work on his crusher.

His crusher, it turns out, he will have to use in his new mining operation which he started the preceeding week in partnership with his father. Thus, the crusher will only be available to us at their mine site, not at our convenience.

We concluded our negotiation by my warranting that all future business with Escapool Geodisic (ph) would be conducted in a business-like fashion with written agreements and specific rental prices for all equipment--no complex horse trading, etcetera involved. At conclusion of this discussion of a rather complex situation, Ernie indicated a willingness to do whatever he could to give us a hand.

JAB then returned to the DE kitchen table conference to view progress and report that we no longer have the use of Ernie Escapool's crusher. After reviewing progress at the kitchen conference, JAB drove to the State of Maine Mine and found that operations had ceased there until Monday morning. JAB then went to Charlie Escapool's home.

A conference with Charlie Escapool ensued between 12:43 and 2:42. The conference was very amiable with Charlie Escapool indicating a great willingness to help us in any way that he could. He made various suggestions which were enthusiastically received by JAB. These include the following:

1. The State of Maine Mine will run all of our cyanide assay

(shaker tests) on orientation samples until we get our lab set up, on a toll basis. This will include crushing, pulverizing, spliting and cyanide shaker tests with AA analysis for gold and silver.

2. They will analyze all of our barrel test cyanide solutions on the AA, again giving us analytical results for gold and silver.

3. They are getting a crushing unit set up for their own crushing, and they will run crushing tests for us when this is set up in approximately three weeks.

4. They will not be using their International Harvestor ~~fragmatted~~ track mounted backhoe on the weekends and would be willing to have us rent it from them. Officially, because of their lease agreement with I.H., we will contract for them to do the work.

5. They will be happy to build us a standard State of Maine large cyanide plant using all the components of ours that we have on hand. This should reduce our cost for the plant construction by $1,000 to $1,500.

6. They will allow us to use their International Harvester front end loader when they are not using it. Our charge on this loader will be $25 per hour vs. their charge to anyone else using it of $35 per hour.

While at Charlie Escap~~ool~~ule's house, JAB met Gabriel Helvay, a German geologist to whom Charlie has leased two claims in the Tombstone District and sold a small cyanide plant to. Mr. Helvay's long range plans are to take this plant to Ajijic, Jalisco, Mexico where he has silver properties. However, he wishes to operate in the Tombstone District to gain experience with the plant where he can consult with the Escap~~ool~~ules. The claims that the Escap~~ool~~ule's leased to him are surrounded by TDC ground, and he would like to work out some type of a deal where he could place a leach pad on TDC claims. It may be feasible and advantageous to have him do so and JAB will check further into the situation. It may be possible to trade him out of the use of his small plant until he is ready to start operations on his pad.

The remainder of the day was occupied with additional work with TEW, DE, and AW working out details of the coming mine test using the Escap~~ool~~ule International backhoe.

James A. Briscoe

JAB/db

P-418

00-021

MEMO

TO: FAMCO

Mssrs. Tom Schloss and Dwight Lee

FROM: J. A. Briscoe, Southwestern Exploration Associates

DATE: Wednesday, August 15, 1979

SUBJECT: Project 418 - Tombstone Project, Daily Report

Friday, August 10, 1979

JAB, TEW, AW and DE met with Mr. Dave Rabb from the Arizona Bureau of Geology and Mineral Technology at the heap site at about 8:10 A.M. At about the same time the gun people arrived at the 71 Minerals Building which they were vacating completely as of that date. We spent a few minutes talking with them and then TEW, AW and DE started cleaning out the 71 Minerals Building, while Dave Rabb and JAB made a tour of the property. JAB first took Rabb up to the top of the heap and reviewed the situation there including discussing details of the problems encountered with R.F.H. Metallurgy--the acid pretreatment, whether there were still values to be recovered from the heap, and sampling techniques and metallurgical techniques which would be applicable.

JAB and Rabb then traveled to the Contention open cut where

about an hour to an hour and a half was spent in walking through the cut and associated sampling trenches, examining the rock characteristics and geology as they might pertain to mining and metallurgical problems. Rabb and JAB then returned to the 71 Minerals Building where it was found that the gun people wanted to tear down a lean-to structure that they had constructed on the east side of the building because we didn't want to pay $400 they requested for its use. This resulted in a trip to the Tombstone Courthouse to talk with Tom Pitcher, who is the TDC Company's representative in Tombstone. We prevailed upon Col. Pitcher to talk with the gun folks, result being that the building was not taken down and we will have its use after some repairs have been made to it.

After leaving Pitcher's office, JAB, TEW, DE, AW, and Dave Rabb traveled to the State of Maine Mine area run by Charles and ~~Murry~~ Lonis Escap~~ool~~nle. We were given a thorough tour through all aspects of the Escap~~ool~~nle operation and received detailed descriptions of their operating and metallurgical procedures. The State of Maine Mine exploits veins which cut Uncle Sam porphyry which is a ~~Y~~Laramide ignimbrite or welded ash flow tuff. Compositionally, it is very similar to the Schefflin granodiorite which is the igneous rock in the Contention dike area. Thus, the geology and metallurgy at the State of Maine has significant similarities to that anticipated in the Contention open cut.

The Escap~~ools~~nle operation is very professionally done, even

though neither Charlie nor Louie Escapool has a formal education. They have spent over a year, probably more like two years, testing and perfecting their heap leaching techniques, metallurgical techniques and cyanide plant construction. Both plants, which in both cases use swimming pool filters rather than the traditional filter presses standard in past years for the Merrill - Crowe process. The plants come in two sizes: a small - pickup portable-size plant which will process 65 tons of solution per shift and costs $3,750. The larger plant which can also be truck mounted, though requiring a larger truck, will process 65 gallons per minute, or approximately 300 tons of solution per shift and costs $16,500. The small plant is very applicable for test work, or possibly leaching very high grade, carefully controlled leach pads, while the large plant is a production unit. Additional units of the large size can be added so that almost any rate of production can be obtained on a production heap. This unitized plant concept has the advantage of extreme reliability. That is, if one component in the plant breaks down, only one circuit is shut down for repairs while the remaining plant capacity is still on stream. The converse is true in a large capacity plant with only one circuit, since if one component breaks down, the entire plant is out of commission until that component is repaired. Using multiple Escap~~ool~~nle units to obtain a large volume of solution throughput negates the possibility of a major plant shutdown, and also makes it unnecessary to keep a large stock of emergency spare parts or to go to heroic measures to get spare parts if a plant breakdown should occur. It is almost an ideal

way of increasing plant capacity incrementally and at a low capital expenditure. Considering the ease of operation and research that has gone into these plants, they are quite inexpensive.

Charlie and Louie Escap~~ool~~kle are going out of their way to make all of their facilities available to us at a very low cost, and are willing to make all of their information available at no cost. We could not ask for better treatment nor hope to be able to work with more pleasant, honest individuals than these two gentlemen.

JAB invited Charlie and Louie Escapool for lunch with the group and after lunch, lasting from approximately 1:00 until 2:00 P.M., JAB and Dave Rapp and Al Waterson discussed metallurgical factors on the heap, and in the Contention open cut in relation to Escap~~ool~~nles's operation, and their willingness to allow us to use their facilities. It was concluded that there still may be potential in the heap, both for some initial releaching, though more probably in screening and crushing the unleached coarse material within the heap. At this point, the question of how to mine the Contention open cut without risk of dropping into an open stope was unresolved.

J. A. Briscoe

James A. Briscoe

MEMO

TO: FAMCO

Mssrs. Tom Schloss and Dwight Lee

FROM: J. A. Briscoe, Southwestern Exploration Associates

DATE: Wednesday, August 15, 1979

SUBJECT: Project 418 - Tombstone Project, Daily Report
Thursday, August 9, 1979

Tombstone employees, Mssrs. Al Waterson and Dusty Escapule spent the day in Tombstone working on Dusty Escapule's kitchen table since we do not have office facilities in Tombstone at the present time. They collaborated in devising a working plan and listing equipment required to institute that working plan which was in accordance with instructions discussed during our Tuesday, August 7 meeting.

Mssrs. Thomas E. Waldrip, Jr., (TEW) and James A. Briscoe (JAB) spent the day in the S.E.A., Inc. office preparing lists of equipment needed, getting catalogs and other price lists together as well as textbooks, reference books, and the basic working material. TEW was able to leave for Tombstone approximately 3:00 in the afternoon while JAB left at approximately 6:30 in the evening. The most significant event during the day was the telephone

call from Mr. Vernon Dale of the Arizona Bureau of Mines - the state agency that is charged with mine safety. He had, that morning, visited the Escapule operation at the State of Maine mine and had been informed that R. F. Hewlett had been terminated. He immediately visited the Contention open cut with the intention of talking with me and found no one there as office work was being performed that day. He then called me approximately 3:00 in the afternoon reference TC # 7778. He was concerned because of the danger from potential cave-ins of large stopes which underlie the Contention area. He had visited the Contention area the previous week and left a report with RF. Hewlett stating that before any work should progress in the open cut, that we should obtain underground mine maps and survey in their location on the surface so that we did not inadvertently break into the large underground stopes and have both men and equipment disappear in these large workings. While Dick Hewlett did verbally tell me that he had a visit from Vernon Dale, he did not forward a copy of Dale's report nor convey to me the intensity of Dale's concern for the safety hazard caused by the stopes.

I concur with Vernon Dale's concern and will place no more equipment in the Contention open cut until the exact position of the stopes can be ascertained.

At the open cut, O. C. Miller and Norman Scruggins continued brushing mesquite and cactus from the edges of the open

cut so that JAB can do a detailed mapping of the geology surrounding the cut.

James A. Briscoe

JAB/db

P-418

00-021

3-16

Office of State Mine Inspector

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

REVIEWED
AUG 13 1979
By_____

HEALTH AND SAFETY INSPECTION REPORT

COMPANY NAME: SEA HYDROMETALLURGY

MINE/PLANT NAME: 71 Minerals Leach Dump

ADDRESS: P. O. Box 370

Tombstone, Arizona 85609

PHONE NUMBER: 457-3733 ID #:

INTRODUCTION: This report is based on an inspection made pursuant to Arizona Revised Statutes 27-124 and 27-128.

TYPE OF INSPECTION: SPOT DATE OF INSPECTION: August 1, 1979

INSPECTION #: 7

GENERAL INFORMATION:

EMPLOYMENT: 3 COMPANY OFFICIALS: Richard Hewlett, General Manager

WORK SCHEDULE:
Hours per shift: 8
Shifts per day: 1
Days per week: 5

TYPE OF OPERATION: Dump Leach NEAREST TOWN: Tombstone

PRINCIPAL PRODUCT: Silver COUNTY: Cochise

INSPECTION PARTY: Richard Hewlett, General Manager
Vernon Dale, Deputy Mine Inspector

RECEIVED AUG 10 1979

cc: SEA HYDROMETALLURGY
James A. Briscoe - 4500 East Speedway, Suite 14, Tucson, AZ. 85712

6/79

553

0991

SEA HYDROMETALLURGY
71 Minerals Leach Dump
8/1/79

WITHDRAWALS: PRIOR INSPECTION OF MAY 30, 1979

Violations #1, #3, #4, #5, #6 and #7 from this inspection have been withdrawn.

NOTE: Violations were withdrawn because the metallurgical plans have changed and Mr. Hewlett has advised that no sulphuric acid will be used for probably six months.

COMMENT: At present a sampling program of the contention mineral structure is being carried out. If sample results are favorable, ore will be mined from an open pit and transported to a cyanide leach pad adjacent to the 71 Minerals Leach Dump.

It was recommended to Mr. Hewlett that he obtain all underground mine maps in the proposed pit area and draft an overlay of each mine level workings so that men and equipment do not drop into one of the old underground workings.

/s/ Vernon Dale
Deputy Mine Inspector

3-15

APACHE ORO COMPANY

Division of ideas inc

318 South 2nd Street
P.O. Box 730
Laramie, Wyoming 82070
307 742-6668 Cable: APACHE

August 8, 1979

Mr. James Briscoe
Southwestern Exploration Associates
4500 East Speedway Blv'd.
Tucson, AZ 85716

RECEIVED AUG 10 1979

Dear Mr. Briscoe:

We certainly appreciated your telephone call yesterday regarding your Tombstone silver property.

First, let me describe (in general) the services we have to offer. We are affiliated with a group of business men that has world-wide contacts with foreign and domestic investors looking for purchasing, or in joint venturing mining projects requiring $1 million, or more. The projects should be ready for development (not raw exploration projects).

Our associates travel five times a year to Europe and the Mid-East to meet with prospective investors. Also, mineral properties and ventures are constantly being presented to potential investors in the United States. Many of these investors prefer to invest their capital in ventures and leave the exploration development, mining and milling up to others who are sufficiently qualified and experienced to develop the property. Our company is also affiliated with thirteen exploration and mining consultants. Enclosed is a list of these consultants and references on our company. Also, we have employed the services of such concerns as Skyline Labs, Heindrichs Geoxploration, and Verity & Smith in Tucson.

Incidentally, we recently closed a $7.7 million gold production project in Alaska which had been brought to us four months ago by one of our consultants. We also have a large coal project in Utah and a silver project and a barite project in Nevada that are about ready to be finalized.

If an owner desires for us to present his property, he is asked to give us his written permission for Apache Oro Company and our associates to present the property for sale, or joint venture at such terms and price as the owner indicates to be acceptable. A 10% commission as a finders' fee paid by the owner is shared by Apache Oro Company and the group of business men who obtain an investor.

In order to present your property to potential investors, we will need the following to prepare brochures:

1. A letter from you as owner giving us written permission to present your project to prospective buyers, or joint venturers and confirmation of our 10% commission if we can find buyers, or joint venture investors which are accepted by you.

2. Another letter (separate from above) outlining the deal(s) acceptable to you and your terms.

3. We need a summary of the following:

a) Topographic and general area maps showing the location of your property and descriptions of the claims giving their size and exact location. Are they patented, or unpatented? Are any overriding royalties involved?

b) Copies of professional reports on your property.

c) A description of ore occurrences including geologic structures. Sampling and assay results. How were the samples taken?

d) Production history, if any.

e) How much capital is estimated to be needed for development and the time required? Do you have projected cost breakdowns?

f) What is the estimated profit potential, and how soon might an investor expect pay-back? Do you have projected cash flow statements?

g) Information on adjoining mineral properties containing extensions of your deposit such as size, location, availability, mineral data, and owners.

h) Any colored photos you may have. We need three copies of each.

i) Three copies of all maps (and anything else that cannot be copied on 8½" x 11" Xerox) are needed.

If you will provide us with the above we will present your properties to several potential buyers and investors who are looking for your type of mining project.

Cordially,

APACHE ORO COMPANY

Warren M. Mallory

Warren M. Mallory
President

Enc: List of consultants and references

WMM/pw

APACHE ORO COMPANY

Mining Division of ideas inc

318 South 2nd Street
P.O. Box 730
Laramie, Wyoming 82070
307 742-6668 Cable: APACHE

Financial responsibility and character references of Apache Oro Company and its president, Warren M. Mallory:

P. W. Wilke, President and Chairman of the Board
Bank of Nevada
Third & Bridger
P. O. Box 1720
Las Vegas, NV 89101
Telephone (702) 385-9211

E. J. Haines, President
First National Bank
221 Ivinson Avenue
Laramie, WY 82070
Telephone (307) 745-4874

Professional and business responsibility and character references of Apache Oro Company and its president, Warren M. Mallory:

John C. Antweiler, Research Chemist
U. S. Geological Survey
Building 53, MS955
Denver Federal Center, CO 80225
Telephone (303) 234-3665

J. David Love, Research Geologist
U. S. Geological Survey
P. O. Box 3007
University of Wyoming
Laramie, WY 82071
Telephone (307) 745-4495

Glenn Parker, Wyoming Suprene Court Justice, Retired
200 Boyd Building
P. O. Box 1346
Cheyenne, WY 82001
Telephone (307) 632-0541

George L. Winders, President
Electriduct Company
500 Delmar
P. O. Box 2415
Casper, WY 82602
Telephone (307) 234-5881

APACHE ORO COMPANY

Mining Division of Ideas Inc.

318 South 2nd Street
P.O. Box 730
Laramie, Wyoming 82070
307 742-6668 Cable: APACHE

The following are some of the consultants affiliated with Apache Oro Company:

John C. Bellamy: Civil engineer and nuclear physicist. Currently Professor of Civil Engineering, University of Wyoming and a director of Apache Oro Co. Formerly Director of Natural Resources Research Institute; founding member of Western Interstate Nuclear Board; Associate Director of Cook Research Labs; special consultant to U. S. Army Corps; Director of Institute of Tropical Meteorology in Puerto Rico; and Bellamy & Sons Engineers whose major client was Sinclair Oil Co. Registered professional engineer and land surveyor, State of Wyoming. Certified consulting meteorologist. Awarded the Medal of Freedom by the President of the U. S., 1945; the Losey Award from the Institute of Aeronautical Sciences, 1945; and the Turlow Award from the Institute of Navigation, 1944. PhD in meteorology, University of Chicago, 1947. PhM in nuclear physics, University of Wisconsin, 1938. B.S. in civil engineering, University of Wyoming, 1936.

Frank Coolbaugh: Mining engineer. Currently Chairman of the Board of Peabody Coal Co.; President of Peabody Holding Co. and Mineral Industries Engineers, Inc.; member of the Board of Directors of Newmont Mining Corp., Ranchers Exploration and Development Corp., Northwest Zinc Co., Ltd., and Lakewood (Colorado) National Bank. Formerly rose from the ranks to Chairman of the Board and Chief Executive Officer, President, Director, and Chief Operations Officer of American Metal Climax, Inc. (AMAX). Registered professional engineer, State of Colorado. Received Distinguished Achievement Award from Colorado School of Mines in 1956. Graduate of Harvard Business School, Advanced Management Program in 1947. B.S. in mining engineering, Colorado School of Mines, 1933.

Alfred J. Deaderick: Geologist. Currently is doing research and teaching at New Mexico Institute of Mining and Technology. Formerly part-time field geologist for Public Service Company of Oklahoma, Wyoming Geological Survey, Superior Oil Co., University of Wyoming Geology Department, and Ozark-Mahoney Mining Co. M.S. in geology, New Mexico Institute of Mining & Technology, 1978. B.S. in geology, University of Wyoming, 1976.

S. M. del Rio: Mining engineer. Currently Executive Vice-President of Mineral Industries Engineers, Inc. Formerly spent most of his professional career in the field in many parts of the world, and over two decades as consultant to the mineral industries, including the development of the mineral resources of foreign nations under special assignments by the United Nations and others under the U. S. AID program. His experience comprises practically every type of economic mineral from gold to clays, and in fuels from fossil to nuclear. Author of "Mineral Resources of Colorado -- First Sequel." Registered professional engineer, State of Colorado. Graduate of Colorado School of Mines as mining engineer, 1928.

Walter E. Duncan: Mineral engineer. Currently Director of Natural Resources Research Institute and advisor to Lost Basin Mining and Apache Oro Company. Formerly Professor of Mineral Engineering at University of Wyoming and mineral engineer for Ozark-Mahoney Mining Co. Specialty areas are mineral processing, utilization, specifications, identification and analysis. Registered professional engineer, State of Illinois. Professional degree in mineral engineering at Montana School of Mines, 1960. Three years of graduate work in metallurgy at University of Missouri, 1938. M.S. in metallurgical engineering at Montana School of Mines, 1934. B.S. in chemical engineering at Montana School of Mines, 1933.

Allen D. Gray: Mining engineer. Currently Managing Partner of Storm King Partners, Ltd. Formerly special consultant to W. R. Grace & Co.; President and Director of Golden Glass Corp., Edgemont Corp., and Susquehanna Corp.; Executive Vice-President and Director of Terra Chemicals International Inc.; Vice-President and Director of Cimmred, Inc., Energy Reserves, Inc., and Energy Development Co. M.S. in mining engineering at Colorado School of Mines, 1952. B.S. in mining engineering at Pennsylvania State University, 1949.

Jack O. Horton: Land use geologist. Currently President of Horton & Company, a land use consulting firm to private industry. Formerly Assistant Secretary for Land and Water Resources, U.S. Department of the Interior; Chairman of Alaska Land Use Planning Commission; Various deputy and assistant secretary positions to several Secretaries of the U.S. Department of the Interior; Vice President, HF Bar Ranch. Numerous published articles on land, energy and water. Rhodes Scholar, M.A. in economics/politics, 1966. B.A. in geology, Princeton University, 1960.

Edward J. Krish: Exploration geologist. Currently senior minerals exploration geologist for Kerr-McGee Resources. Formerly exploration geologist for Texasgulf, Inc., Exxon Corp., U.S. Geological Survey, and Sunray DX Oil Co. M.S. in geology, Colorado School of Mines, 1974. B.S. in geology, University of Texas, 1971.

Warren M. Mallory: Exploration engineer. Currently Managing Partner of Lost Basin Mining and President of Apache Oro Co. and IDEAS, Inc. Formerly President of P & M Building Co.; member of International Committee, U.S. Chamber of Commerce; Professor of Electrical Engineering, University of Wyoming; electronic design engineer for U.S. Bureau of Reclamation and Naval Research Laboratories; and geophysical engineer for Magnolia Petroleum Co. Licensed professional engineer, State of Wyoming. Patentee in both electronics and minerals identification. Professional Engineer degree, University of Colorado, 1950. B.S. in electrical engineering, University of Colorado, 1941.

Frank J. Sander: Exploration engineer. Currently advisor to Lost Basin Mining and Apache Oro Co.; President of Invention Activators, Inc.; and General Manager of Wyoming Information Systems Co. Formerly District Manager of Schlumberger Well Surveying Corp. Registered professional engineer, State of Montana. B.S. in electrical engineering, University of Wyoming, 1950.

Robert B. Smith: Economic geologist. Currently President of R. B. Smith & Associates, Inc., consultants in base metal and uranium ventures. Formerly Manager of Regional Exploration for Westinghouse Uranium Operations Division; supervisory geologist for Humble Oil & Refining Co., Minerals Division; Manager of Mineral El Cantil; senior mine geologist for Homestake-Sapin Partners; mine engineer for Pictograph Uranium Corp.; and owner of Uranium Claims Co. Author of several published technical papers. Post graduate courses at Colorado School of Mines, International Business Machines, Casper College, Rice University, and South Dakota School of Mines & Technology. B.S. in geology, University of Texas, 1969.

Max L. Troyer: Exploration geologist. Currently advisor to Lost Basin Mining and Apache Oro Co. Formerly Deputy Chief of USAID/USGS program in Brazil; Acting Chief of the Astrogeology Branch of the U.S. Geological Survey; Professor and Administrative Geologist of U.S.G.S. to Brazilian government; coal specialist of U.S.G.S. to Taiwan government; geological work in Alaska, Wyoming, and Colorado. M.S. in geology, University of Wyoming, 1951. B.S. in geology, University of Wyoming, 1946.

Gunther Von Gotsche: Geological engineer. Currently an independent consulting geologist to Coronado Oil Co. and Buttes Resources. Formerly consultant to Tesoro Petroleum Corp. and Midwest Mining Co.; geological engineer for Amerada Petroleum Co., Chevron Oil Co., and Chilean Government Petroleum Corp. Author of several technical articles. B.S. in geological engineering, Colorado School of Mines, 1950. Two years of undergraduate work at Copiapo School of Mines in Chile, 1947.

Other experts: The foregoing consultants are personally acquainted with other experts in virtually every aspect of the minerals industry. Many of these experts are semi-retired individuals and their many years' of experience is available as needed. Thus, their pay is based only on the services rendered (like our consultants' pay). Therefore, an operation can be established with minimum overhead and maximum efficiency (unlike the normal expensive exploration, or mining venture).

Old-timers: Apache Oro Company is also affiliated with several retired old-time mining men who are extremely knowledgeable and experienced, especially in gold prospecting and mining.

Other consultants: Although not directly affiliated with Apache Oro Company, various engineering, analytical, geophysical, geochemical, geological, and aerial photography consulting organizations are hired by Apache Oro Company for specific projects.

Disk 00-021. The date is Friday, August 10, 1979. Location is the State of Maine Mine, Escapool (ph) dump and heap leach operation.

TIME: MILEAGE: DATE: 08/10/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-80-21; P-JAB-80-22; P-JAB-80-23

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Panning left to right shows the cyanide caustic soda makeup in the square tank with a pipe leading into the cylindrical tank which sits in front of the tin building. Cylindrical tank is the makeup tank with the filters in the tin building right behind the cylindrical tank. Photo 23 shows the pregnant solution pond with styrofoam pontoons. Suction pump is sucking up water at the rate of 60 gpm over about an 18" wide swath about 3' long and about 2" to 3" deep so that it is only picking up the surface ~~chlorifi~~ed water. The muddy solutions, therefore, stay on the bottom.

TIME: 11:43 MILEAGE: DATE: 08/10/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-80-24; P-JAB-80-25; P-JAB-80-26

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Southside view and northside view of the Escapool 300 tpd precipitation plant. Marrow (ph) coal (ph) type.

TIME: 11:46 MILEAGE: DATE: 08/10/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-80-27

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Looking south towards the Escapool dump which consists of the State of Maine Mine dump. The spray solution is applied with Robertson spray heads, adjustable so that they can spray either 360° area or a 45° area, and can be adjusted for fineness of spray and length of spray up to about 90 feet. This dump is small enough so that Rainbirds are the best way of applying the solution, though perforated pipe and/or wigglers could be used. In the left, upper portion of this slide is the George Juwet (ph) operation which lies just to the left of the Triple X Mine and in the upper right hand portion of the frame is the International hydraulic back hoe being operated on the Triple X dump by the Escapools. Seeing it is being leased from Modern Equipment Company. These heads cost $4.50 each and spray 2-1/2 gallons a minute. These heads are available with different orifices in them, up to 4 gallons per minute per head which is what is being used here.

TIME: 12:04 MILEAGE: DATE: 08/10/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-80-28; P-JAB-80-29

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

This is a small test plant that runs 65 gallons per day cost is $3,750 Tankage requirements are met by 55 gallon drums.

TIME: 12:29 MILEAGE: DATE: 08/10/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-80-30

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

The Escap~~ool~~ n/a barrel leach test in operation. The small barrels with 50#'s of fine rock or ~~other~~ mine run rock.

TIME: MILEAGE: DATE: 08/10/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-80-31

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

View of the wrist shaker for quick cyanide test.

TIME: 12:46 MILEAGE: DATE: 08/10/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-80-32; P-JAB-80-33; P-JAB-80-34; P-JAB-80-35

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Interior of the Escap~~ool~~ n/a precipitation laboratory including the precip tanks and the Varian AA unit.

The date is Thursday, August 16, 1979. The location is Tombstone Mining District, Cochise County, Arizona.

TIME: MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-1

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

This is the northeast end of the Contention open cut and the location of the mine test, prior to any excavation work. In this frame the Escap~~oil~~ ade Geodesic, John Deere C10 backhoe front end loader is working on the small dump on the northeast end of the Contention open cut. Al Waterson is the operator. The dump, which forms two prongs, has been flattened off with a bulldozer, and the backhoe has dug a sampling cut through the center of the dump. The backhoe is currently working on the northeast prong.

TIME: MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-2; P-JAB-81-3; P-JAB-81-4; P-JAB-81-5

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Photo 2 is A closer view of the dump sampling operation, while photos 3, 4, and 5 are additional views of this sampling operation.

TIME: MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-6

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Photo 6 is the same backhoe working on the north end, or entrance to the Contention cut, making a backhoe sample trench to be used in sampling, preparatory to the mining test this weekend.

TIME: 12:50 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-7; GS-4031

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

East side of the Contention cut, Tombstone Mining District. The photos that follow will be photos of samples taken at 20 foot intervals along the east side of the Contention open cut. They start with sample 4031 which is represented by this photograph. The orange line marks the location of the channel chip sample and wooden pegs mark the beginning and end emphasized by vertical orange lines painted on the face of the cut. This is

sample 4031. Backhoe trenching has covered up part of the sample location, but the rock here is, in part, Contention dike material and part shattered Bisbee Group sediments.

TIME: 12:52 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-8; GS-4030

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Sample 4030 from 20 to 40 feet; shattered Bisbee Group sediments.

TIME: 12:53 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-9; GS-4029

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Shattered Bisbee Group sediments with some porphyry material. Visible in this photograph is a shallow cross cut about 10 feet deep which probably represents a relatively high grade cross structure. Sample was not run into this crosscut, but was kept parallel to the face, simply started in rock essentially continuous with the material to the left of the cross cut.

TIME: 12:57 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-10; GS-4028

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Sample 4028. Again shattered Bisbee Group sediments. Note close-spaced loose jointing at approximately right angle to the trend of the vein. Also, a fault structure is visible about half way between the south of _____ and the end stakes in the right hand portion of the frame. This fracture trends at right angles to the strike of the Contention vein.

TIME: 12:59 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-11; GS-4027

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Crosscut visible on the sides of the Contention open cut and this sample as well as strong fracturing in Bisbee Group sediments. In this area a large block of ground behind the crosscut has started to fall away from the open cut. General alteration and brecciation in this area as well as between the greatest width of the Contention open cuts suggests that ore values might be greatest here.

TIME: 1:01 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-12; GS-4026

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Again, a fractured Bisbee group sediment. Black manganiferous material can be seen in the center of this frame, directly above the sample site.

TIME: 1:02 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-13; GS-4025

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE

AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Again, brecciated Bisbee Group sediments.

TIME: 1:03 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-14; GS-4024

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Shattered Bisbee Group sediments.

TIME: 1:04 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: GS-4023

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Rock type changes in this sample at about 3 to 4 feet to the right of the sample start marker and is proceeding from left to right, or from north to south. Rock to the right of this point is Contention dike porphyry. Alteration consists of argillic to seracitic type alteration of the granodiorite porphyry which is cut by veins of quartz and black manganese oxide material. Veins parallel the face strongly in this area.

TIME: 1:06 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-15; GS-4022

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Rock type here is shattered Contention dike porphyry.

TIME: 1:07 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-16; GS-4021

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Again, Contention dike porphyry. In this case, much of the black material which is on the face is in the ~~planned~~ plane of a black manganese oxide-quartz vein cutting porphyry. Approaching the narrowest portion of the Contention cut and it is assumed that this material is lower grade than the previously sampled Bisbee Group sediments to the north.

TIME: 1:10 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-17; GS-4020

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Rock type in 4020 is shattered Contention porphyry with black manganese veins cutting it parallel to the length of the dike. In the upper right hand portion of the frame, there is a red paint number marked B-1. This is the entrance to a crosstrench which was probably dug in the 1930's or possibly earlier for sampling. At the end of this trench is a shaft which angles back towards the Contention open cut and is probably at least 200 feet deep.

TIME: 1:12 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-18; GS-4019

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

This photo shows the B-1 sample trench which is at the south end of sample 4019. This frame looks easterly at the cut.

TIME: 1:13 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-19; GS-4018

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Again shattered Contention porphyry. In the upper right hand portion of the frame is another easterly-trending surface sampling trench.

TIME: 1:14 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-20; GS-4017

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Again shattered porphyry being less altered in this area. Green and red sample marks in numbers are samples taken by RFH and ~~probably~~ have no significance here.

TIME: 1:15 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-21; GS-4016

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE

T: R: SEC:

FIELD PLOT:
COMMENTS:

Again, this is shattered Contention porphyry. In the center of this frame is green paint number 3952. This is from an earlier RFH sample and has no significance here.

TIME: 1:16 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-22; GS-4015

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Again, shattered Contention porphyry. Rather poor alteration this area.

TIME: 1:17 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-23; GS-4014

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS: GS-4014,

~~S~~Note in lower right hand portion of frame~~s~~. Here the rock is also Contention porphyry. There is a definite break in alteration type about 5 feet to the right of the beginning of this sample number, ~~and~~ although the two alteration types were included together. This appears to be in part of the Contention fault zone and see rock, light colored, on which green sample number 2599 and 2598 are written, is substantially brecciated due to faulting. It may be necessary to take a separate sample of this material, although it is very thin, probably a few inches to a few feet in thickness.

TIME: 1:19 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-24; GS-4013

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Again we have fault breccia in Contention granodiorite porphyry. Sample numbers 2597 and 2596 in green paint are visible in this space. They have no significance related to this sample.

TIME: 1:21 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-25; GS-4012

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Rock type as before, green sample numbers visible in this frame are 2595, 2594, 2593 and 2592. Again, they have no significance here.

TIME: 1:23 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-26; GS-4011

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

This crosses the fault zone seen in the samples to the north and reenters what appears to be strongly altered Bisbee Group sediments.

This is the end of a series and the next sample in non-sequence and immediately to the south of sample 4011 will be sample 4040.

TIME: 1:27 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB

FIELD NO: P-JAB-81-27; GS-4040

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

This is immediately to the south of sample 4011. This is again faulted and fractured Bisbee Group sediments, possibly mixed in with some porphyry material.

TIME: 1:30 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-28; GS-4037

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Shattered Bisbee Group sediments. In the upper portion of this frame you can see a surface sampling trench dug at least in the 30's if not before. A 100+ foot shaft dug about 15 to 20 feet behind this face in the trench. Below the orange sample line, approximately where the sample is taken, breccia zone of sediments cemented with black manganese oxide and quartz forms what appears to be a high grade, rather tabular feature which will show more strongly in samples and photos to the south.

Disk 00-021.
TIME: 1:32 MILEAGE: DATE: 08/16/79
PROJECT NO: 419 BY: JAB
FIELD NO: P-JAB-81-29; GS-4036

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Visible in this frame is a short adit, approximately 15 feet long that, according to Dusty Ecsap~~ool~~uk, his grandfather drove in the 30's. According to rumor he hand cobbed ~~cobbed~~ some material that went as high as $1,000 per ton at that time. (Note this is an unvarified report). Green

paint sample 2573 is over this cut. Sample 4036 was taken along the orange line which is generally through the breccia zone.

Disk 00-021.
TIME: 1:36 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-30; GS-4035

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Again brecciated sediments cut by dike material. This sample contains dike material about half way through sample. This may require some additional sampling.

Disk 00-021.
TIME: 1:37 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-31; GS-4034

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Shattered Contention porphyry dike material.

Disk 00-021.
TIME: 1:33 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-32; GS-4033

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Shattered Contention porphyry material.

Disk 00-021.
TIME: 1:39 MILEAGE: DATE: 08/16/79

PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-33; GS-4032

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Shattered dike material. This is the last sample at the southerly entrance to the Contention open cut.

Disk 00-021.
TIME: 1:41 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-34

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

This is looking northerly along the south entrance to the Contention open cut as of this date. Note sample 4032 in the lower right hand portion of this frame, and the orange sample line which defines the location of the 20 foot long each, chip channel samples taken by Bruce Prior (BMP) and John Kasprowicz (JDK). Again, the purpose of these samples is to gain a quick idea of what the average value along the face of the cut might be in cyanide soluable silver and gold. Additional more detailed samples will have to be taken as geologic mapping progresses.

Disk 00-021.
TIME: 1:44 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-35

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Looking northerly from approximately the center of the Contention open cut about 75 to 100 feet south of the narrow constriction point in the cut. The east side of the cut is to the right and the orange dayglow line

defines the location of the 20 foot channel chip samples mentioned above. The State of Maine Mine Inc. International payloader, which is being used to prepare for the mine test, can be seen at the north end of the open cut.

Disk 00-021.
TIME: 1:51 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-81-36

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Looking southeastly from the northwest side of the Contention open cut. This frame shows Dusty Escap~~ool~~ne operating the Robert Cowen Cat D6B bulldozer, preparing the haul road and starting place for the backhoe mine test to ~~being~~ began Saturday, August 18, and to run through Sunday, August 19.

Disk 00-021.
TIME: 2:00 P.M. MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-1; GS-4041

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

We are starting on the south end of the Contention open cut on the west side. Sample 4041 is of strongly-altered Contention dike material, possibly intermixed with Bisbee Group sediments.

Disk 00-021.
TIME: 2:01 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-2; GS-4042

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

Again, shattered Bisbee sediments. Only aboutt half of this sample is exposed and the only part sampled is that which is actual bedrock.

Disk 00-021.
TIME: 2:06 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-6; GS-4047

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Again shattered Bisbee Group sediments.

Disk 00-021.
TIME: 5:46 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-7; GS-4048

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Shattered and limonite stained Bisbee Group siltstone and sandstone--redbed material.

Disk 00-021.
TIME: 5:48 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-8; GS-4049

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Again, shattered Bisbee Group redbeds, silt to sand-sized particles. This sample taken in the open cut near narrows.

Disk 00-021.

TIME: 5:49 MILEAGE:
PROJECT NO: 418
FIELD NO: P-JAB-82-9; GS-4050

DATE: 08/16/79
BY: JAB

OFFICE NO:

STATE: ARIZONA
AREA: TOMBSTONE
T: R:

COUNTY: COCHISE

SEC:

FIELD PLOT:
COMMENTS:

Again, shattered Bisbee Group siltstone--sandstone--redbed facies. Sample taken just on the north side of the Contention narrows where it begins to widen to the north.

Disk 00-021.
TIME: 5:51 MILEAGE:
PROJECT NO: 418
FIELD NO: P-JAB-82-10; GS-4051

DATE: 08/16/79
BY: JAB

OFFICE NO:

STATE: ARIZONA
AREA: TOMBSTONE
T: R:

COUNTY: COCHISE

SEC:

FIELD PLOT:
COMMENTS:

Again, shattered Bisbee Group sediments, veined with quartz veins, carrying black ~~mnox~~ Mn Ox. (note from DEC operator. I don't know what is wrong with this particular tape, but I can't get the volume very loud and am having a hard time hearing--it appears to be the tape as last one didn't have that type of trouble.) (This is tape T25)

Disk 00-021.
TIME: 5:53 MILEAGE:
PROJECT NO: 418
FIELD NO: P-JAB-82-11; GS-4052

DATE: 08/16/79
BY: JAB

OFFICE NO:

STATE: ARIZONA
AREA: TOMBSTONE
T: R:

COUNTY: COCHISE

SEC:

FIELD PLOT:
COMMENTS:

Again, Bisbee Group sediments shattered by Contentions vein. This photo shows good vein sheeting, consisting of quartz with associated black manganese oxides which probably carry silver.

Disk 00-021.
TIME: 5:55 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-12; GS-4053

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Shattered Bisbee Group sediments.

Disk 00-021.
TIME: 6:01 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-13; GS-4054

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

Shattered Bisbee Group sediments. Right below the sample site in this photograph is a contact with more intensely brecciated rocks below, which is not recorded in this sample, and less intensely brecciated and jarosite-colored rock above which was included in the sample. It is not clear whether this is a bedding plane or some kind of a structural disconformity, but since it appears to ~~be~~ cut across bedding, it may be more of a structural discontinuity than bedding plane.

Disk 00-021.
TIME: 6:04 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-14; GS-4055

OFFICE NO:

STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:

This sample is taken mostly in the lower, more intensely altered facies, although all of the rock in this space is Bisbee Group sediments. Directly above the sample bag #~~1255~~ 4055 is a breccia dike. Not clear whether this is a

fault feature or something fluidized, but it appears more likely that it is of fault origin.

Disk 00-021.
TIME: 6:11 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-15; GS-4056

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Brecciated Bisbee Group sediments with moderate to strong limonite stain. Sample is taken about 9/10ths below the sub-horizontal contact above the red line and about 1/10th above that contact.

Disk 00-021.
TIME: 6:14 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-16; GS-4057

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Brecciated Bisbee Group sediments.

Disk 00-021.
TIME: 6:16 MILEAGE: DATE: 08/16/79
PROJECT NO: 418 BY: JAB
FIELD NO: P-JAB-82-17; GS-4058

OFFICE NO:
STATE: ARIZONA COUNTY: COCHISE
AREA: TOMBSTONE
T: R: SEC:

FIELD PLOT:
COMMENTS:
Brecciated Bisbee Group sediments.

I. Sampling

R. C. Samples on exp. faces in cut
400 already taken
Documented?
back hoe cuts

II Take Dozer & Scraper all. surf soil off.
~~done~~

III Rip. at Rt Ls do cut

IV Back hoe cuts

VI Sample & Run barrell tests.

II Heap leach Test

A 200 Tons on pad

1. Crush 1/2
2. Mine 1/2

} Heap leach test.

B. Diesel fuel & mud for Seal drips

III

1. Ore Reserves
2. Value - Tenor
3. Plant Throughput
4. Pad requirements
5. Mine equipment

} mine planning

6. Capital Requirements.

7. What necessary to raise add capital.

8 What kind of a deal

VI Employees –
How many people do we need.

VII Screen analysis of ~~ore~~ omitted ore

VIII Followed by barrel tests & screen analysis.

JAB, your copy

3-13

cious metals • uranium
othermal • environment
sensing • color aerial photography
terpretation-image processing
Worldwide Mobilization

4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

James A. Briscoe, President
Registered Professional
Geologist

Southwestern
Exploration Associates, Inc.

August 3, 1979

REVIEWED
AUG 3 1979
By JAB

Mr. Tom Schloss
FAMCO
1700 Broadway, 22nd Floor
New York, N.Y. 10019

Dear Tom,

Enclosed you will find the cash disbursements for the period of 7/27/79 to 8/03/79, for the Tombstone Exploration-Main Account #955-16344.

Thank you,

Judy M. Urias

Judy M. Urias
Asst. Bookkeeper

JMU
P-418
Encl.

522

TOMBSTONE EXPLORATION - MAIN ACCOUNT
Account [illegible]-16344
Balance forward $ 144.64

DATE	PAID TO	PURPOSE	CHECK #	AMOUNT
7/27/79		Service charge		.50
7/27/79	U.S. Postmaster	Overnight Delivery	1009	15.80
7/29/79		Transfer from T.H.L. Trust		1,000.00
7/29/79	Richard F. Hewlett	Reimbursement for expenses	1010	469.43
7/31/79	Dept. of Revenue	2nd quarter State W/H tax	1011	393.43
7/31/79	Internal Revenue Service	2nd quarter Fed. W/H tax	1012	146.17
8/01/79		Deposit wired into acct.		4,715.00
8/02/79		Transfer by bank into Salary account		1,200.00
8/02/79	Bud Anderson (P.O. 6362)	Contract labor	1013	62.50
8/02/79		Refund from State Land Department		150.00
8/03/79	Robert Cowan (P.O. 6411)	Equipment Rental	1014	500.00
8/03/79	Can-Am Corp. (P.O. 5112)	Supplies	1015	50.04
8/03/79	Jacobs Assay Office (P.O. 6217)	Assay	1016	208.00
8/03/79	First National Bank	July Payroll Taxes	1017	2,019.86
8/03/79	Johnny Escapule (P.O.6336)	Contract labor	1018	187.50
8/03/79		VOID	1019	VOID
8/03/79	Escapule Geodesic (P.O. 6335)	Equipment Rental	1020	500.00
		Balance		256.41
		Approx. amount needed to cover payroll:		1,200.00

521

3-12

DAY/TIMER time-Saver

LETTER

IN REFERENCE TO:

Southwestern Exploration Assoc., Inc.
4500 E. SPEEDWAY, SUITE 14
TUCSON, ARIZONA 85712

(602) 795-6097

FIRST CLASS MAIL ☐ INTER-OFFICE ☐

FOR JAB

HOW TO USE THIS DAY/TIMER time-Saver LETTER TO SAVE TIME.
Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

DATE: Aug. 2, 1979

FOLD

This morning I gave you the Tombstone employees pay checks. On them I attached a note not to cash until notified by Tucson office. Please inform Dick we did receive the wire & they are free to cash their checks.

Thanks,
judy

FOLD

BY

REPLY

DATE: 8/2/79

Thanks JB — How much was wired?

$4,715.00

BY

520

DAY/TIMER time-Saver® REORDER FORM No. 82420L, DAY-TIMERS, Allentown, Pa. 18001

DAY/TIMER Time-Saver

SOUTHWESTERN
EXPLORATION ASSOCIATES
6783 CAMINO PRINCIPAL
TUCSON, ARIZONA 85715

(602) 885-2319

LETTER 3-11

IN REFERENCE TO: P-418 - Tombstone Project Hauling Dewatering.

AIRMAIL ☐ FIRST CLASS MAIL ☐ INTER-OFFICE ☒

FOR R.F.H

HOW TO USE THIS DAY/TIMER Time-Saver LETTER TO SAVE TIME.

Type or write your reply in the space below. Then mail the white copy to us and keep the pink copy for your files. You'll save time and effort, and we'll have your answer much faster! Thank you.

MESSAGE

Dick Please do the following: DATE 8/2/79

1. Have all personnel except yourself brush out all old sample trenches around mentation open cut so I can get in & map geology & take samples.
   If there isn't enough hand tools ie saws, clippers, brush hooks, axes etc., then have the hourly people take off the day.
2. I want you to work on a summary monthly report for July.
3. If possible make arrangements to move into the 71 minerals Bldg, & prep. the trailer for haulage to Tucson
   Don't run any more samples.

SIGNED

REPLY

DATE

4. If you have any extra time.
   A. Prep. an inventory of all equipment held by the Tombstone project
      1. Owned
      2. Leased or rented
   B. Move into Bldg & set up borwell tests.

I'll be down Saturday if possible.

SIGNED [illegible] ok RKA

RE-ORDER FORM No. B2352L ©DAY-TIMERS, Allentown, Pa. 18001

SENDER - KEEP THIS COPY FOR YOUR FILE. MAIL WHITE AND PINK COPIES INTACT.

TOMBSTONE

August Budget

Item	Week 1	Week 2	Week 3	Week 4
Salaries/ Wages:				
D. Escapule 8.75	$ 350	$ 350	$ 350	$ 350
E. Rice 7.50	300	300	300	300
R. Hewlett 12.50	500	500	500	500
K. Scroggins 5.00	~~300~~	~~300~~	~~300~~	~~300~~
O. Miller 5.00	300	300	300	300
Fuel:				
Chevron	~~338.06~~ Pd		300	
Diesel	part ~~150~~/50	50	50	50
Jeep Rental		300		
Typewriter		53		
C./L. Escapule				
Vacuum Pump	96.15	have on hand - but on E.E's plant		
Wallt Dunn	100.00	owe		
Robert Cowan	3,000	owe for past work		
Dozer				
Back-hoe	750	50	50	50
	~~450~~ owed			
Supplies:	300	for present use		
Sampling (spray paint)	25	25	25	25
Crushing (Earnie's)	25	25	25	25
Crusher - estimated parts				
Drilling - Johnny E. on contract		250	250	250
Lab:				
Barrels	~~[illegible]~~	20 x 10' = 200 feet for $250		
Pumps	~~60~~ Pd —	$25/large plastic barrels	need 8 incl. 4 to replace 4 borrowed from Chris & Louie E.	
Tubing	20 —	plastic tubing 50¢/foot		
Trays	80 —	plastic baby wash tubs $6.00 ea		
Storage Bottles, Buret's, Flasks, Misc. Chem.	350	100	100	100
	$ 6,869.21	$2,603	$ 2,550	$ 2,250

$300 -

Need to pay Johnny E. $187.50 on 37½ at $5.00/hr.

Need Jones splitter (Earnie's doesn't want us to use it)

Consultants in:
- Hydrometallurgical recovery
- Heap and conventional leaching
- Precious and base metals
- Uranium/Vanadium
- Tungsten
- Worldwide Mobilization

FILE

JAB
Tombstone file
3-10

Division of
Southwestern Exploration Associates

4500 E. Speedway, Suite 14
Tucson, Arizona 85712
(602) 795-6097

Richard F. Hewlett
Vice President and General Manager
Chemical Engineer
Mining Engineer

S.E.A. Hydromet, Inc.

July 31, 1979

RECEIVED 8/1/79
REVIEWED
AUG 9 1979
By JMB

Mr. James Briscoe
S.E.A.
4500 E. Speedway
Tucson, Arizona(85712)

Dear Jim:

Enclosed please find my Daily Progress Reports for period July 20 through July 31, 1979.

Please notice the revised August budget follwoing the July 30 progress report.

Also, I called Al Watterson and informed him of the decision not to hire him at this time and he told me that he would call you concerning employment.

I will look forward to your visit on Thursday, as the dozer work has exposed a great deal that I am sure you will be interested in from a geological and ore reserve point-of-view.

I would appreciate any photo's to the 1 inch= 300 and 100 feet that you have developed for the Toughnut to Grand Central areas. Also, Bill Hight as well as myslf are interested in the 18 unpatented claim area of TDC's for assessment and meaningful exploration in the area of the Tombstone Extension group.

Best personal regards.

Sincerely,

Richard F. Hewlett

Richard F. Hewlett

517

3-9

REVIEWED

AUG 3 1979

By

TOMBSTONE DAILY PROGRESS REPORT

Briscoe, Schloss, Dean

July 20, 1979

James Briscoe, Tom Schloss, and John Dean spent the morning reviewing previous progress and futhur plans.

James Briscoe showed how he would like the samples taken on rock outcrops in the railroad cut. This involves determining where the sample interval should be taken, marking this interval with embossed stakes having the sample number on and a spray-pint line between the stakes indicating where the sample was taken. The sample interval is then recorded concerning the geology-rock type, alteration, etc., and then photographed after the sample is taken(having the sample bag in the photo).

James Briscoe left a number of sample bags and it was agreed that I should order additional bags to continue the sampling.

It was decided to conduct back-hoe tests on the heap for barrel leach tests.

Additional discussion of the future plans are presented in my July 27 Report.

July 21, 1979

Tom Schloss and John Dean continued to review the project and discuss future plans.

The back-hoe was taken up to the north-center of the heap and a back-hoe trench was dug according to James Briscoe's suggestion. John Dean's memo of July 24, 1979 discusses the details. A large sample was obtained and a barrel-leach test was made with the preg being analyzed with Na_2S as the indicator of silver in solution. This qualitative test produced low silver results, possibly about .2 troy ounces of silver. This was compared with a large back-hoe trench sample from the south portion of the Contention Dike that in a similar barrel test- produced about 5 troy ounces/ton of silver in less than 15 minutes.

Based on the above and previous leach test results from the Contention Dike, a sampling program for the Dike was outlined and discussed by Messrs. Schloss, Dean, and Hewlett(again, see July 27 Report).

Sincerely,

Richard F. Hewlett

Richard F. Hewlett

516

3-8

REVIEWED

AUG 2 1979

BY FMB

TOMBSTONE DAILY PROGRESS REPORT

Messrs. Briscoe, Schloss, & Dean

July 22, 1979

Messrs. Schloss and Dean were in Tombstone untill about 4:00 o'clock reviewing alternative future plans and discussing the budget for the Month of August. RFH prepared a budget for August and September that was discussed by Messrs. Schloss, Dean, Dusty Escapule, and Hewlett. Tom Schloss left a copy of the budget at the S.E.A. office for James Briscoe.

Precips collected over a lapse time of several days were melted and Tom Schloss took them back(dore) for analysis.

Coarse ore was crushed by hand(refer to Dr. Deans memo of July 24) and leached in a pail. Indications from this test using sodium sulfide was that significant values were leached-indicating the worth of crushing. Numerous contacts were initiated to locate and crusher for production and to obtain one for lab-barrel leach tests. The necessity for screening was emphasized by Dr. Dean.

July 23, 1979

Tom Schloss took my typewriter in for repair, which will improve the Daily Reports.

The sampling of the Contention Dike-south was organized according to James Briscoe's sampling proceedure. After considering the storage problem, conversations were made with the "Gun Company" personnel, who revieled that the "Gun Company" was moving to Bisbee within a matter of days-or less than a week. Obviously, the old '71 Minerals building was perfect for the storage of the large number of samples to be taken over the next months.

Old drill-holes were found in the Contention Dike area which seem to be done by '71 Minerals-possibly Ed Speer(DH's # 20, 21, 22, and 16 were identified).

Work was done on the July 27 Report.

The initial location of the barrel-leach tests will be where the present plant is located-on the bench. Barrel-leach supplies will be purchased when the money is budgeted and approved.

Sincerely,

Richard F. Hewlett

Richard F. Hewlett

REVIEWED 3-7

AUG 9 1979

TOMBSTONE DAILY PROGRESS REPORT

Messrs. Briscoe, Schloss, & Dean

July 24, 1979

Bailey Escapule started working on the geological descriptions and guiding the sampling. RFH spent considerable time with Bailey reviewing the proceedure and studying where James Briscoe took his sample in the "Railrod-Cut". Various rock units were identified and the alteration facies in the hornfels that overlie much of the area were discussed. Even though much of the Bisbee hornfels are blocky and appear unmineralized, there are local shear zones that are mineralized and very careful sampling must be done to identify ore and waste areas in these overlying hornfels for ore control.

It is important that the structural geology be done in order to provide local control for the ore bodies or ore zones. For example, it is noted that the Contention Dike is faulted on the north end of the "Contention Dike Glory Hole";the northern continuation of the Dike past the Pump Shaft has moved west according to old maps. Also, these maps show a "parallel northerly extension of the Contention Dike" further to the west. Interpretation of the aerial photos with ground truth-mapping will confirm previous geological mapping.

July 25, 1979

The sampling has continued at a faster rate than expected and it is obvious that consererably more sample bags will be required. Initially 500 will be required and another 500 could be required through September. The bags that James Briscoe left on July 20, 1979 were used in about 1½ days, which was about 120 samples. — This calculates to 120/90 samples = 2 minutes/sample probably sloppy sampling as I don't believe control sampling can be done at this rate DRB

Screen size determinations were made, as discussed in the July 27 Report.

Bailey worked with the samplers, and his observations were discussed with RFH. The easterly wall of the railroad cut appears to have four rock units exposed stratigraphically. The westerly wall appears to be faulted from the east wall. James Briscoe's observations when available will be very much appreciated.

Sincerely,

Richard F. Hewlett

Richard F. Hewlett

514

TOMBSTONE DAILY PROGRESS REPORT

REVIEWED
AUG 8 1979
By

Messrs. Briscoe, Schloss, & Dean

July 26, 1979

Today, I was informed by Loius Escapule that he did not want to exchange any additional dozer time(from our Modern Equipment allotment), scraper usage, or other of our equipment or possible services for Atomic Absorption analyses or pulverizer usage. His reason was that they(Charley and Loius) would be to busy using their lab facilities with their exploration/development on the Tripple X claim. They are renting from Modern Equipment a $3,000/month excavator with a 19 foot hoe. Their early work indicates some high-grade veins that they are trenching. Their hope is to develop enough open-pit ore to continue sampling and mining. They plan to crush the ore, just as we would be doing for the higher-grade ore in the Contention Dike. Also, they informed me and Tom Schloss that Bailey would no longer work for us-again because he was now to busy with their exploration/development.

Left in the breach was whether they want any information that we would develop in the Illinois area-Michigan Central, which is to the southwest of the Little Joe shaft and easterly of our Grand Central claim. Also, we have much data for their "State of Maine" area done by Austral Oil and James Briscoe for '71 Minerals. They have expressed great interest in that data, but now I question what to do concerning some trade with them for either exploration rights-AA determinations, etc..

Worked late on the July 27 Report.

July 27, 1979

Ordered chemicals required for additional test leach studies.

Left a copy of July 27 report with Chris for James Briscoe(original) and two for Tom Schloss-he recieved one on July 28.

Picked-up sample bags. They will be inventoried Saturday and temporarily stored in the trailer, then moved to the '71 Minerals Building. How the samples are to be analyzed must be resolved between James Briscoe,Dr. Dean, and Tom Schloss. To date, Tom Schloss does not want fire assays run-only sodium sulfide color tests.

Sampling continued, with a back-hoe trench dug across the southerly end of the Contention Dike to be able to sample the fill-gob material in the dike.

Sincerely,

Richard F. Hewlett

Richard F. Hewlett

TOMBSTONE DAILY PROGRESS REPORT

REVIEWED
AUG 8 1979
BY

Messrs. Briscoe, Schloss, & Dean

July 28, 1979

Sampling continues in the Contention Dike. It was decided by Tom Schloss and John Dean that Ed Rice should be trained to manage the grade control when we go into production. Therefore, he has been working with Keith on the sampling for the past week so that he is familiar with every facet that leads to grade control. RFH has spent considerable time with Ed relating to the actual sampling;objectives, technique, pit-falls, etc..

O.C. Miller and Dusty Escapule have been working on the crusher. As was explained in the July 27 Report, no reasonable small crushers have been located after very extensive search. The least expensive was $7,000 and was relatively small. Fixing up Ernie Escapules creates the problem John Dean kept focussing on-some is Ernies and some of the crusher would belong to us-who is the owner? However, there is no other alternative that is presently known, with the exception of a relatively high capital investment(+ $7000).

The dozer was brought over about noon by Charley and Bailey. The dozer work required for the sampling away from the Contention Dike and in the north portion of the Dike was worked-on till nearly dark. I was informed that the dozer must be returned early on Monday morning, greatly reducing the "test time" from one week to two days at the most. Work was scheduled for Sunday to take advantage of the dozers availability. The objective-as discussed with Tom Schloss and Dr. Dean is to facilatate the sampling by dozing off the overburden and to rip along the extension of the Contention Dike along its northerly extension-beyond the "glory hole". It was found by leveling the bottom of the northern portion of the Contention Dike that the "spalled/loose" material on the floor of the glory hole was dumped from the crest of the Dike wall;dumped from the southeast rim. Because it is relatively good grade, it is unclear why when that material was obtained from possibly sinking a small shaft, that it was brought over and dumped into the Dike. Samples taken will reveal if it is high-grade that was seggrgated and returned to the Dike instead of remaining in a waste-dump, as exist on that side of the Dike.

REVIEWED
AUG 8 1979
BY JHB

July 28, 1979

The large maps obtained from '71 Minerals, Tombstone Development, Newmont, Duval, and Bunker Hill were brought to Tombstone on Friday for compilation, sorting, and study. The maps have been sorted into:

1. Cross-sections; mostly along either drill-hole locations (especially the +1600 feet holes) or along proposed drill-hole locations. All drilling is being compilated into one note-book which is in the S.E.A. office and one is in Tombstone. Additional drill-hole data is about compiled and will be plotted, with the help of the aerial photographs taken by S.E.A. Photography.

2. Claim maps;TDC and State of Maine area, and some claims staked near the Gleason road northeast of Tombstone (near Holiday Estates). Included in the Tombstone Development Companies maps are their 18 unpatented claims near the Tombstone Extension(southeast of the 88 patented claims presently under lease).

3. Plan maps, showing the underground workings and surface geology as mapped by Duval and Newmont.

Aerial photographs for the TDC property have been flown, as mentioned previously. I presently have two color photos for the Contention Dike area;one to a scale of 1inch=300 feet, and one to a scale of 1 inch=100 feet. Desired would be the additional color photos:

1. For the Contention Dike area, enlarge the 1 inch=100 feet photograph to 1 inch=20 feet, so that assay results can be plotted on the accompanying overlay, and barrel-leach result. There will then be ore/waste overlays made for grade control as a result of the ore reserve study and analysis.

completed 8/2/79 JHB

2. Additional photos to the above scales(1 inch=300 & 100 ft) for the Grand Central area and the Tranquillity-Empire-West Side-Toughnut areas.

Will put in the order as soon as need is established by conversation w/RFH 8/2/79 JHB

511

REVIEWED
AUG 2, 1979
BY JAB

There are numerous maps to the scale of 1 inch=300 feet that would provide good geological and structural information that would provide "base map" information to be checked. For example, Newmont has a surface lithology and strucure map from the Grand Central to the Toughnut Mines. The structures, especially the faults and dikes can be directly plotted on an overlay of a photo to that scale and this would facilitate field location and conformation. Also, subtle geology mapped by Newmont could also be located and checked, along with drill hole locations and the resulting sections that can be constructed from the drill-hole information(lithology and assay data).

good JAB

The underground maps contain such valuable data as the location and pitch of all of the rolls-anticlines and ore-related cross structures. Underground detailed mapping is also available, especially by Newmont, but also some detailed underground traverses by Ransome and others during the active mining prior to 1910. This is all useful to compile on one set of maps.

Agreed but will of necessity have to be performed with cash is available JAB

The compilation done by the Arizona Bureau of Mines, written by B.S. Butler and Eldred Wilson contains much valuble data that should also be plotted on the overlays. I have reduced one of their maps which is to a scale of 1 inch= 600 feet by one-half in the Contention Dike area and have plotted on the photo overlay of 1 inch= 300 feet the limits of the underground workings along the limits of the Contention Dike. Even though ore-grade mineralization at present prices may extend beyond underground mine workings as known prior to 1910, it serves as a surface guide to open-pit ore because the highest-grade ore was mined at that time.

Ransonable JAB

Also, aerial photographs must be printed from the 18 unpatented claim area to the southeast of the patented claims as part of our assessment obligation. That work must be planned and scheduled to comply with the filing date.

agreed - will review w/ Bill Hewlett on 8/8/79

Sincerely,

Richard F. Hewlett

Richard F. Hewlett

510

3-4

REVIEWED

AUG 2 1979

BY JB

TOMBSTONE DAILY PROGRESS REPORTS

Messrs. Briscoe, Schloss, & Dean

July 29, 1979

Al Watterson called yesterday looking for work in Tombstone. He is presently in Mina, Nevada, and would like very much to come back and work for me here at Tombstone. He wants to so much that he is willing to start at $300/month, which we can pay by terminating Kieth upon Al's arrival. Because Al has extensive experience in surveying, sampling, pad and pond construction, open-pit mining(and grade control), equipment maintanence, and general leaching, it will upgrade our staff with his presence and as Tom Schloss suggested, Keith Scroggins can be re-hired for general labor when we go into production. Al Waterson will be here this coming week-end, so Keith will work one more week. After discussing this with Tom Schloss, Al was notified that we would hire him and he is moving to Tombstone.

per week?

Canceled by 5/5/79 TC #7720 until interview by JAB

The dozer work was started early this moring and continued untill about 11:00 o'clock, when the dozer would not start, after loosing power. Additional diesel was added, but to no avail. Lem of Modern Equipment was not available untill 2:00 o'clock in the afternoon. He said he would get a mechanic as soon as possible. However, it was not running untill the following morning, when it was picked-up by the Company that has it rented for the next month or two on a sewer job in Benson.

Learned from the use of the International TD20E, which is slightly larger than a Cat 7, was as follows:

1. It would be large enough for our production needs-compared with their next larger dozer(TD25). The price comparison on a lease-purchase basis would be over $2,000 per month for the larger dozer.

2. The TD20E can rip the surface ore/waste very effectively-without the immediate need for blasting.

Compilation of data was continued.

Sincerely,

Richard F. Hewlett

Richard F. Hewlett

509

REVIEWED
AUG 3 1979
BY JMB

TOMBSTONE DAILY PROGRESS REPORTS

Messrs. Briscoe, Schloss, & Dean

July 30, 1979

Modern Equipment of Tucson picked-up their TD20E. Lem said that he would contact Tom Schloss concerning the equipment lease prices. Reported to Tom Schloss was the following:

TD25	$9,000	monthly	
TD20E	6,750	"	
FF 560	9,750	"	(front-end loader)
Truck	14,750	"	(new 50-ton)
Truck	10,365	"	(new 36-ton)
Truck	10,500	"	(used 50-ton).

Robert Cowan wants his full payment if he is going to leave his Cat6B dozer for our use-we owe him $3,000. A payment of $1,000 was to be made last week, but it was not made and Bob has carried us for a long time.

As per Tom Schloss's request, I contacted Tombstone Development and Bill Hight informed me that he was coming down to Tombstone with Frank Gallup on Wed.(Aug.1, 1979). It was not possible for me to discuss the delay of the August 1 payment, as he would elude to the payment as Tom's responsibility and would prefer to discuss that matter with Tom directly.

I had several visits with Tom Pitcher concerning getting into the '71 Minerals building on August 1. I discussed the matter with the President of the Gun Company on Sunday(July 29). He was willing for us to use the building untill they moved everything out, which he said would be very soon.

Work progressed on the crusher and shaker-screen.

The weekly budget for August follows.

Sincerely,

Richard F. Hewlett

Richard F. Hewlett

REVIEWED 3-2
AUG 8 1979
BY

TOMBSTONE DAILY PROGRESS REPORT

MESSRS. Briscoe, Lee, & Dean

July 31, 1979

Spent most of the day talking to Tom;waiting for return calls in case Tom needed something.

Tom called Bill Hight concerning the August 1 advanced minimum royalty payment.

James Briscoe informed me that Bill Hight and Frank Gallup are stopping at S.E.A.'s office to see Jim and the office facilities.

Tom said that the Perkin-Elmer 303 would be available in three weeks. The precision-detection limits are:

Gold : ± .25 PPM
Silver: ± .06 PPM
Copper: .09 PPM.

I am sorting and inventoring the TOMBSTONE DEVELOPMENT maps to go over with James Briscoe on Thursday. Sampling progress will be presented to Jim at that time(that is also the day that Hight and Gallup will be in Tombstone). I will need some time to show them what we have been doing and our progress and future plans. It would be helpful to be able to show them color photo's of their 18 unpatented claim area as we must be doing the assessment very soon. With 18 claims or $1,800 worth of work, the photo costs must be allocated, and the remaining work planned and implemented.

I called Al Watterson and informed him of the decision not to hire him at this time, but I told him to call James Briscoe for an interview.

Talked w/Al Watterson TC #7784 8/1/79 will interview sunday 8/5/79 JRB

Sincerely,

Richard F Hewlett

Richard F. Hewlett

REVIEWED
AUG 9 1979
By

TOMBSTONE

August Budget

Item	Week 1	Week 2	Week 3	Week 4
Salaries/ Wages:				
D. Escapule	$ 350	$ 350	$ 350	$ 350
E. Rice	300	300	300	300
R. Hewlett	500	500	500	500
K. Scroggins	300	300	300	300
O. Miller	300	300	300	300
Fuel:				
Chevron	338.06		300	
Diesel	150/50	50	50	50
Jeep Rental		300		
Typewriter		53		
C./L. Escapule Vacuum Pump	96.15			
Wallt Dunn	100.00			
Robert Cowan Dozer	3,000			
Back-hoe	750	50	50	50
Supplies:				
Sampling	25	25	25	25
Crushing	25	25	25	25
Drilling		250	250	250
Lab:				
Barrels	75			
Pumps	60			
Tubing	20			
Trays	80			
Storage Bottles				
Buret's				
Flasks				
Misc. Chem.	350	100	100	100
	$ 6,869.21	$2,603	$ 2,550	$ 2,250

LOT No 108
INDEPENDENCE MINE

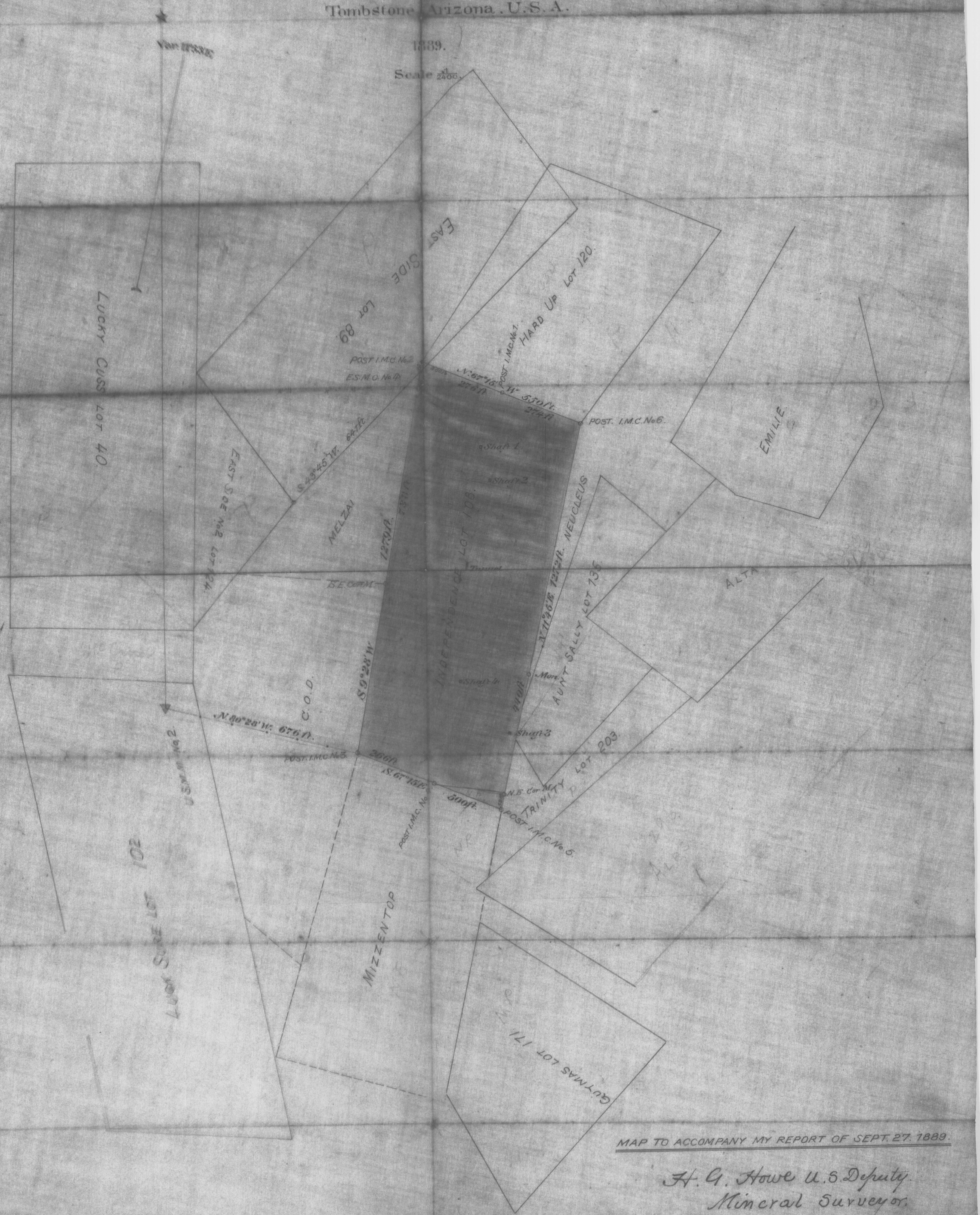
belonging to

R. Rinehart, A. Barron & J.H. Striedinger.

Tombstone, Arizona. U.S.A.

1889.

Scale $\frac{1}{2400}$.



MAP TO ACCOMPANY MY REPORT OF SEPT. 27. 1889.

H. G. Howe U.S. Deputy
Mineral Surveyor.
Tombstone. Arizona.

685