Form 3860–10
(October 1979)
(formerly 3400–11)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey number: 4803
State: Arizona
Land District: Arizona

Of the Survey of the Mining Claim of *(name and address of Claimant)*

Filters International, Inc.
Box 2
Superior, AZ 85273

Known as the *(name of group, if any)*

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE LOCATED	DATE AMENDED
Lee Mill Site	1/11/80	
Penny Mill Site	1/11/80	
Cynthia & John Mill Site	1/11/80	

Mining district: Mineral Creek Dist. #610			County: Pinal	
Section: 4	Township: 2 South	Range: 12 East	Meridian: G. & S.R.M.	Survey under order dated: Feb. 20,1980
Survey commenced: Feb. 26, 1980	Survey completed: Mar. 15, 1980		Name of Mineral Surveyor: Harvey W. Smith, E.M.	

Form 9600-19
(May 1978)
(formerly 9180-21)

FEET

This survey was made with a Swiss Kern theodolite, Model DKM 1, No. 77769, having horizontal and vertical circles, 50 mm. in diam. The circles are graduated in degrees and 20-minute increments. An optical micrometer, adjustable to the vertical and horizontal circles, permits the reading of angles direct to ten-second accuracy and estimating to one-second accuracy. The instrument was in good condition at the time of the survey and all adjustments were in good order.

All azimuths in this record were determined by the method of horizontal-angles-right referred to the meridian determined by the following observation:

March 7, 1980, at Cor. No. 1 of the Lee Mill Site in latitude 33°17'28"N., and longitude 111°07'23"W.,elevation 2,710 ft. above sea level, and temperature 60°F., make a series of six altitude observations on the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from a reference point about 990 ft. westward S.W. to the sun.

Mean time of observation, 105th meridian standard time	= $3^h07^m40^s$p.m.
Declination of sun at mean time of observation	= 04°56'03.6"S.
Mean observed vertical angle to sun's center	= 33°21'37"
Mean horizontal angle from reference point to sun's center	= 336°18'20"S.W.
True bearing to reference point	= S.79°58'22"W.

The lines were measured with a Lufkin steel tape, 300 ft. in length, graduated every foot for 299 ft. and the remaining foot graduated to tenths and hundredths; the tape was compared to an Invar standard tape at the beginning of the survey and found to be correct. In addition to the steel tape, a K & E Autoranger infrared distance measuring unit was used to measure some of the lines. Its accuracy was checked against a line measured with the foregoing steel tape.

All lines and connections of this survey were run by direct methods.

The magnetic declination observed at each corner of the survey gave a uniform value of 14°E.

FEET	
	LEE MILL SITE
	At Cor. No. 1 of the Lee Mill Site.
	Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X L.1 U.S.M.S. 4803; from which
	The S. 1/4 sec. cor. of sec. 34, T. 1 S., R. 12 E., Gila & Salt River Mer. bears N.62°08'32"E., 1,374.17 ft. dist., monumented with an iron post, 1 in. diam., firmly set with a brass cap properly mkd.
	A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post.
	No local bearing objects or bearing trees available.
	Thence S.10°01'38"E.
127.	Powerline bears N.36°W. and S.36°E.
475.97	Point for witness Cor. No. 2.
	Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X W.C. L.2 U.S.M.S. 4803; from which
	A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post.
	No local bearing objects or bearing trees available.
630.	Center of road, 24 ft. wide, bears N.27°W. and S.27°E.
654.55	Intersect the North boundary of the railroad right of way.
660.00	Cor. No. 2.
	This cor. falls in the center of a road, described above, where a permanent monument cannot be established.
	Thence S.79°58'22"W.
15.	Center of unimproved dirt road, 12 ft. wide, bears N.56°W. and S.56°E.
83.16	Intersect the North boundary of the railroad right of way.
330.00	Cor. No. 3, identical with Cor. No. 3 of the Penny Mill Site of this survey.

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(May 1978)
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FEET	
	Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X L.3 P.3 U.S.M.S. 4803; from which A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post. No local bearing objects or bearing trees available. Thence N.10°01'38"W.
83.	East side of open steel framed building; 54 x 30 ft. in size; the long sides bear N.22°E.
635.	Center of dirt road, 24 ft. wide, bears N.30°W. and S.30°E.
660.00	Cor. No. 4, identical with Cor. No. 2 of the Penny Mill Site of this survey. This cor. falls in a road, described above, where a permanent monument cannot be established. Thence N.79°58'22"E.
22.92	Point for witness Cor. No. 4, identical with the witness cor. for Cor. No. 2 of the Penny Mill Site of this survey. Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X W.C. L.4 P.2 U.S.M.S. 4803; from which A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post. No local bearing objects or bearing trees available.
262.	Powerline bears N.36°W. and S.36°E.
330.00	Cor. No. 1, and place of beginning. The Lee Mill Site contains 5.00 acres.
	PENNY MILL SITE At Cor. No. 1 of the Penny Mill Site, identical with Cor. No. 1 of the Cynthia & John Mill Site of this survey.

FEET	
	Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X P.1 C.J.1 U.S.M.S. 4803; from which The S. 1/4 sec. cor. of sec. 34, bears N.67°54'19"E., 2,012.64 ft. dist., heretofore described. A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post. No local bearing objects or bearing trees available. Thence N.79°58'22"E.
325.	Center of dirt road, 24. ft. wide bears N.30°W. and S.30°E.
330.00	Cor. No. 2, identical with Cor. No. 4 of the Lee Mill Site of this survey. Thence S.10°01'38"E.
25.	Center of dirt road, 24. ft. wide, bears N.30°W. and S.30°E.
553.	North side of open steel framed building; 54 x 30 ft. in size; the long sides bear N.22°E.
660.00	Cor. No. 3, identical with Cor. No. 3 of the Lee Mill Site of this survey. Thence S.79°58'22"W.
330.00	Cor. No. 4, identical with Cor. No. 2 of the Cynthia & John Mill Site of this survey. This cor. falls in the center of an unimproved dirt road where a permanent monument cannot be established, 15. ft. wide, bears N.81°E. and S.81°W. Thence N.10°01'38"W.
65.10	Point for witness Cor. No. 4, identical with the witness cor. for Cor. No. 2 of the Cynthia & John Mill Site of this survey. Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X W.C. P.4 C.J.2 U.S.M.S. 4803; from which A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post. No local bearing objects or bearing trees available.

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FEET	
480.	Center of local drainage, 15 ft. true width, course S.23°W.
560.	Center of local drainage, 15 ft. true width, course S.37°E.
660.00	Cor. No. 1, and place of beginning.
	The Penny Mill Site contains 5.00 acres.
	CYNTHIA & JOHN MILL SITE
	Beginning at Cor. No. 1 of the Cynthia & John Mill Site, identical with Cor. No. 1 of the Penny Mill Site of this survey.
	Thence S.10°01'38"E.
100.	Center of local drainage, 15. ft. true width, course S.37°E.
180.	Center of local drainage, 15 ft. true width, course S.23°W.
594.90	Point for witness Cor. No. 2, identical with the witness cor. for Cor. No. 4 of the Penny Mill Site of this survey.
660.00	Cor. No. 2, identical with Cor. No. 4 of the Penny Mill Site of this survey, and center of umimproved dirt road, 15. ft. wide, bears N.81°E. and S.81°W.
	Thence S.79°58'22"W.
230.	Left bank of local drainge, 20. ft. true width, course S.33°W.
330.00	Cor. No. 3.
	Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X C.J.3 U.S.M.S. 4803; from which
	A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post.
	No local bearing objects or bearing trees available.
	Thence N.10°01'38"W.
40.	Left bank of local drainage, 40. ft. true width, course S.50°W.
660.00	Cor. No. 4.

(This form bound on left side)

FEET	
	Set an iron post, 30 ins. long, 3/4 in. diam., 18 ins. in the ground, in a concrete and rock base, with a brass cap firmly secured to the iron post, mkd. X C.J.4 U.S.M.S. 4803; from which A wood post, 2 x 2 ins. in size, 4 ft. above ground, sets adjacent to the iron post. No local bearing objects or bearing trees available. Thence N.79°58'22"E.
230.	Right bank of local drainage, 20 ft. true width, course S.65°E.
330.00	Cor. No. 1, and place of beginning. The Cynthia & John Mill Site contains 5.00 acres.

Mineral Survey No. 4803

AREAS	Acres
Total area Lee Mill Site ---------	5.000
Area in conflict with	
Right of way- Magma Railroad------	0.004
Total area Penny Mill Site -------	5.000
Total area Cynthia & John Mill Site	5.000

LOCATION

This survey is located in the NW 1/4 Sec. 4, T. 2 S., R. 12 E., G.&S.R.M.

The survey of the Lee, Penny and Cynthia & John Millsites is identical with the respective location as marked on the ground.

EXPENDITURES

None.

OTHER IMPROVEMENTS

A mill complex for the processing of perlite ores has been erected on the mill sites of this survey. Pertinent structures of the complex on these millsites are described as follows:

An irregular shaped mill building, steel and wood construction, the N.E. cor. of which bears N.61°W., 10. ft. from Cor. No. 3 of the Penny Mill Site, approximately 80 x 100 ft. in size; the long sides bear N.10°W.

Claimant herein.

A frame construction building with corrugated sheet steel covering, the NE cor. of which bears N.78°W., 137. ft. from Cor. No. 3 Penny Mill Site; 18 x 12 ft. in size; the long sides bears N.55°E.

Claimant herein.

	FEET		
		A frame construction building with corrugated sheet steel covering, the NE cor. of which bears N.58°W., 140. ft. from Cor. No. 3 Penny Mill Site; 20 x 10 ft. in size; the long sides bears N.12°E. Claimant herein. A frame construction building with corrugated sheet steel covering, the NE cor. of which bears N.61°W., 161. ft. from Cor. No. 3 Penny Mill Site; 9 x 9 ft. in size; the long sides bear N.15°E. Claimant herein. A frame construction building with corrugated sheet steel covering, the NE cor. of which bears N.31°W., 200. ft. from Cor. No. 3 Penny Mill Site; 54 x 30 ft. in size; the long sides bears N.15°E. Claimant herein. A mobile trailer home, the NE cor. of which bears North, 230. ft. from Cor. No. 3 Lee Mill Site; 50 x 30 ft. in size; the long sides bear N.12°E. Claimant herein. A frame construction building with corrugated sheet steel covering, the NE cor. of which bears N.11°E., 250. ft. from Cor. No. 3 Lee Mill Site; 32 x 12 ft. in size; the long sides bear N.75°W. Claimant herein. A frame construction building with corrugated sheet steel covering, the NE cor. of which bears N.80°W., 90. ft. from Cor. No. 3 Penny Mill Site; 22 x 10 ft. in size; the long sides bear N.10°E. Claimant herein. An open frame construction building, the NE cor. of which bears N.7°W., 104. ft. from Cor. No. 3 Lee Mill Site; 54 x 30 ft. in size; the long sides bear N.19°E. Claimant herein. A frame construction building with corrugated sheet steel covering, the NE cor. of which bears N.10°E., 200. ft. from Cor. No. 3 Lee Mill Site; 32 x 22 ft. in size; the long sides bear N.10°E. Claimant herein. An Ore hopper, steel construction, the S.W. cor. of which bears N.49°E., 155 ft. from Cor. No. 3 of the Lee Mill Site, 15 x 15 ft. in size; the sides bear N.80°E. and N.10°W. Claimant herein. Necessary conveyors to move ore through complex. Claimant herein.	

FEET

A powerline traverses the N.E. cor. area of the Lee Mill Site.
Claimant unknown.

An underground telephone cable traverses the Lee Mill Site.
Claimant unknown.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

None.

MEMORANDUM

None.

FIELD ASSISTANTS

Name	Capacity
Kent Miller	Assistant Instrument Man
Daniel Cummin	Chainman, Axeman

Form 3860-7
(November 1976)
(formerly 3400-8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor	Date
Harvey W. Smith, E.M.	May 21, 1980

I HEREBY CERTIFY That in pursuance of an order received from the Bureau of Land Management, at Phoenix, AZ, dated February 20, 19 80, I have carefully executed the survey of the claim of Filters International, Inc., known as the *(lode, placer, or mill site)* Lee, Penny and Cynthia & John MillSites, situated in Mineral Creek Dist. #610 Sec. 4, Township 2 South Range 12 East G. & S. R. Meridian, in the State of Arizona.

This survey, designated as number 4803, has been executed by me and under my direction and has been made in strict conformity with said order, the Manual of Instructions for the Survey of Public Lands of the United States, and in specific manner described in the foregoing field notes.

I FURTHER CERTIFY That the labor expended and improvements made upon and for the benefit of the *(lode or placer)* Mill Site location(s) embraced in the said mining claim by claimant(s) or its grantors are fully stated in my report. The character, extent, location, and itemized value are specified in full detail. No portion of, or interest in, said labor and improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Scottsdale, AZ
(Location)

Harvey W. Smith
(Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Office	Arizona State Office
Location	Phoenix, Arizona
Date	December 30, 1980

The foregoing field notes of mineral survey number 4803, in Section 4, [X] surveyed [ ] unsurveyed Township 2S., Range 12E, Gila and Salt River Meridian, in the State of Arizona, executed by Harvey W. Smith, Mineral Surveyor, under order dated February 20, 19 80, having been critically examined and the necessary corrections made prior to their certification by the surveyor, the field notes and the survey therein described are hereby approved.

Boyd S. Owens
Boyd S. Owens (Authorized Signature)

Chief, Br. of Cadastral Survey
(Title)

~~CERTIFICATE OF TRANSCRIPT~~

I HEREBY CERTIFY That the foregoing transcript of field notes of the ~~above~~-described mineral survey number is a true copy of the original field notes.

(Authorized Signature)

(Title)

Title 18, U.S.C. section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

GPO 838-009