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Form 4-683  
(January 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Mineral Survey number  
4703  
State  
Arizona  
Land District  
Arizona

FIELD NOTES

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

FPC Corporation  
Suite 1260 - 10 South LaSalle Street  
Chicago, Illinois 60603

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
High Point	5/12/42	11/5/71

Mining district <b>Pioneer</b>			County <b>Pinal</b>	
Section <b>16</b>	Township <b>2 S.</b>	Range <b>12 E.</b>	Meridian <b>G &amp; SR</b>	Survey under order dated <b>9/13/71 &amp; 11/16/71</b>
Survey commenced <b>9/16/71</b>		Survey completed <b>11/17/71</b>	Name of Mineral Surveyor <b>Harvey W. Smith</b>	

STATE OF TEXAS  
COUNTY OF [illegible]

19[illegible]

[illegible text]

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 10 seconds' 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 established by direct observation on the sun. At 3:45 p.m. on Sept. 16, 1971, at Cor. No. 4 of the High Point lode, latitude  $33^{\circ} 15' 19.06''$  N., longitude  $111^{\circ} 07' 53.94''$  W., turning from a reference point about 400 ft. southwesterly clockwise to the sun in a southwesterly direction.

True bearing of reference point: S.  $25^{\circ} 45' 15''$  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 a standard and found to be correct. 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  $13^{\circ}$  E.

## SURVEY NO. 4703

## High Point Lode

Beginning at Cor. No. 1 of the High Point lode.

Set an iron post,  $3/4$  in. diam., 24 ins. long, in a concrete and rock base, 12 ins. in the ground, with a brass cap firmly secured to the iron post, mkd. U.S.M.S. 4703 H.P. 1X; from which

The  $1/4$  cor. of secs. 9 and 16, T. 2 S., R. 12 E., G&SRM, bears N.  $3^{\circ} 57' 40''$  W., 1,944.62 ft. dist.; a stone, 8 ins. x 12 ins. in size, 12 ins. above ground, firmly set, marked and witnessed as described in the official record.

A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.

FEET		
	Thence S. 25° 45' 15" W.	
10.	Right bank Arnett creek, 30 ft. wide, course N. 60°W.	
126.71	Intersect line 2-3 Sur. No. 4704 (Unapproved) Hill Side lode, at a point from which Cor. No. 3 bears S. 88° 19' 15" W., 1,091.42 ft. dist.	
265.38	Lode line; discovery pt. bears N. 81° 17' 10" W., 1,402.27 ft. dist.	
565.38	Cor. No. 2  Set an iron post, 3/4 in. diam., 24 ins. long, in a concrete and rock base, 12 ins. in the ground, with a brass cap firmly secured to the iron post, mkd. U.S.M.S. 4703 H.P. 2X; from which  A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.	
	Thence N. 81° 16' 10" W.	
1412.15	Cor. No. 3  Set an iron post, 3/4 in. diam., 24 ins. long, in a concrete and rock base, 12 ins. in the ground, with a brass cap firmly secured to the iron post, mkd. U.S.M.S. 4703 H.P. 3X; from which  A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.	
	Thence N. 25° 45' 15" E.	
299.55	Lode line; discovery pt. bears S. 81° 17' 10" E., 10.0 ft. dist.	
345.32	Intersect the south end line of the Candy Rock lode (Unsurveyed) at a point from which the SE. cor. bears S. 79° 05' 35" E., 327.83 ft. dist.	
419.23	Cor. No. 4  Set an iron post, 3/4 in. diam., 24 ins. long, in a concrete and rock base, 12 ins. in the ground, with a brass cap firmly secured to the iron post, mkd. U.S.M.S. 4703 H.P. 4X; from which  Cor. No. 3 Sur. No. 4704 (Unapproved) Hill Side lode bears S. 53° 52' E., 388.04 ft. dist.  The SE. cor. of the Candy Rock lode (Unsurveyed) bears S. 66° 04' 15" E., 317.05 ft. dist.  A wood post, 4 x 4 ins. in size, 4 ft. above ground, sets adjacent to the iron post.	

	FEET	Thence S. 86° 45' 15" E.	
	263.44	Intersect line 3-4 Sur. No. 4704 (Unapproved) Hill Side lode identical with the east side line of the Candy Rock lode (Unsurveyed), at a point from which Cor. No. 3 bears S. 13° 15' 15" E., 219.76 ft. and the SE. cor. of the Candy Rock lode bears S. 13° 15' 15" E., 116.79 ft. dist.	
	1365.	Left bank Arnett creek, 30 ft. wide, course N. 60° W.	
	1461.68	Cor. No. 1, and place of beginning.	
SURVEY NO. 4703			
AREAS			
		Acres	
		Total area, High Point lode	15.261
		Area in conflict with	
		Sur. No. 4704 (Unapproved) Hill Side lode	4.307
		Candy Rock lode (Unsurveyed)	0.608
LOCATION			
This survey is located in the NW 1/4 and NE 1/4, sec. 16, T. 2 S., R. 12 E., G&SRM.			
The survey of the High Point lode is identical with its amended location as marked on the ground.			
EXPENDITURES			
The improvements and the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimants or their grantors are as follows:			
No. 1		The discovery cut of the High Point lode, the center of which being the discovery point, is on the lode line 10 ft. from a point on line 3-4, 299.55 ft. from Cor. No. 3; a pit, 7 x 10 ft. in size, 3 1/2 ft. deep.	
			Value: \$200.00
OTHER IMPROVEMENTS			
None			

FEET

OTHER CORNER DESCRIPTIONS  
AND SUPPLEMENTAL DATA

Sur. No. 4704 (Unapproved) Hill Side Lode: Cors. 2, 3 and 4 are iron posts, 3/4 in. diam., 12 ins. above ground, firmly set, with a brass cap, 2 ins. diam., properly marked. Line 2-3 was found to be S. 88° 19' 15" W., 1,456.10 ft. Line 3-4 was found to be N. 13° 15' 15" W., 571.74 ft.

Candy Rock lode (Unsurveyed): The SW., SE. and NE. cors. were found to be wood posts, 4" x 4" x 4'. The south end line was found to be N. 79° 05' 35" W. The East side line was found to be N. 13° 15' 15" W.

FIELD ASSISTANTS

<u>Name</u>	<u>Capacity</u>
George Erickson	Chainman
Kent Miller	Axeman



THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
5800 S. DICKINSON DRIVE  
CHICAGO, ILLINOIS 60637

NOTE

Received from the Department of Chemistry, University of Chicago, Chicago, Illinois 60637. This work was supported by the National Science Foundation, Grant No. CHE-78-10000. We are grateful to Dr. J. H. Goldstein for his helpful discussions during the course of this work.



Fig. 1. Plot of  $\log(1 - \alpha) / (1 - \alpha)$  versus  $\log(1 - \alpha)$ .

F E E T

Supplemental Expenditures and Improvements

The improvements and the value of the labor and improvements made since the survey upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors are as follows:

An interest in a common improvement described as follows:

An irregularly shaped pit, the southwest corner of which bears N.50°W., 50 ft. from Cor. No. 2, M.S. No. 4705 Candy Rock lode; 200 ft. wide, 60 ft. deep at the SW cor., running NE, 400 ft.

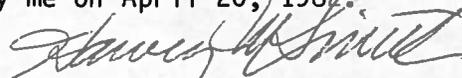
Value of pit,	\$100,000.00
Value of one-third interest,	33,333.33

This improvement is continually being expanded to mine high grade perlite on the High Point lode of this survey as well as M.S. No. 4704 Hill Side lode and M.S. No. 4705 Candy Rock lode, which are all contiguous lodes owned in common within the range of or benefit of said pit.

Five hundred dollars or over has been expended in this improvement in such a manner as tends to the development of each lode of this survey subsequent to its location and to the time since which common ownership and contiguity have prevailed; therefore an undivided one-third interest in its value is hereby credited to each of said lodes and a like interest apportioned to each of the other stated lodes of the common group.

Except as above stated, no portion of or interest in this improvement has been credited heretofore as patent expenditure to any lode claim.

These supplemental improvements were examined and located by me on April 26, 1982.

  
Harvey W. Smith  
Mineral Land Surveyor

The first part of the report is a general statement of the purpose and scope of the study. It is followed by a description of the methods used in the study, including the selection of subjects, the design of the experiment, and the procedures used for data collection and analysis. The results of the study are then presented in a series of tables and figures, and are discussed in the context of the existing literature on the subject. The report concludes with a summary of the findings and some suggestions for further research.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

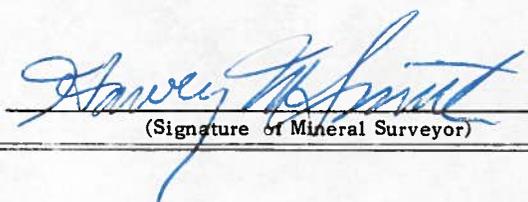
Name of Mineral Surveyor Harvey W. Smith	Date May 3, 1982
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I HEREBY CERTIFY That in pursuance of an <sup>supplemental</sup> order received from the Bureau of Land Management dated April 19, 1982, at <sup>supplemental</sup> Filters International, Inc., I have carefully executed the <sup>supplemental</sup> survey of the claim known as the (lode, placer, or mill site) High Point lode, situated in Sec. 16, Township 2 S., Range 12 E., Gila & Salt River Meridian, in the State of Arizona.

This survey, designated as number 4703, 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) High Point lode 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)

  
(Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Office	Arizona State Office
Location	Phoenix, Arizona
Date	June 23, 1982

The foregoing <sup>supplemental</sup> field notes of mineral survey number 4703, in Section 16 Range 12 E., Gila and Salt River Meridian, in the State of Arizona,  surveyed  unsurveyed Township 2 S., executed by Harvey W. Smith, Mineral Surveyor, under <sup>supplemental</sup> order dated April 19, 1982, 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.

  
James P. Kelley (Authorized Signature)

Chief, Branch of Cadastral Survey  
(Title)

CERTIFICATE OF TRANSCRIPT

I HEREBY CERTIFY That the foregoing transcript of field notes of the above-described mineral survey number 4703 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.

THE STATE OF TEXAS  
COUNTY OF [illegible]

[Faint, illegible text, possibly a deed or contract]

[Handwritten signature]

[Faint text, possibly a date or reference]

[Faint, illegible text, possibly a list or schedule]