

Form 4-683
(January 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey number	4651
State	Arizona
Land District	Phoenix

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

Duval Corporation
c/o Boyle, Bilby, Thompson & Shoenhair, Attorneys at Law,
9th Floor Valley National Bldg.
Tucson, Arizona 85701

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
DSP MILL SITE NO. 7	3-18-63	6-18-63 8-23-66

Mining district		County	
Wallapai		Mohave	
Section	Township	Range	Meridian
4	20 N.	18 W.	Gila & Salt River
Survey commenced		Survey completed	
Dec. 30, 1966		12/30/66	
			Name of Mineral Surveyor
			Robert LENON

F E E T

This survey was made with a Bausch & Lomb Precise Transit, No. 9259, with horizontal limb $5\frac{1}{2}$ ins. diam., having two single opposite verniers, and full vertical circle $4\frac{1}{4}$ ins. diam., having two double opposite verniers, all verniers reading to one minute of arc. The eyepiece is equipped with a colored glass set in the dust shutter, for making direct observations on the sun. The instrument was in good condition at the time of the survey, all adjustments were in good order.

All azimuths in this record were determined by the method of double horizontal angles referred to the meridian determined by the following observations:

December 30, 1966, at the true point for the closing cor. of secs. 4 and 5, T. 20 N., R. 18 W., G. & S. R. M., Mohave County, Arizona, in latitude $35^{\circ}09'30''$ N., and longitude $114^{\circ}10'$ W., I made a series of four altitude observations (in two sets of two each) upon the sun for azimuth, at approximately equal time-intervals, two each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angles clockwise from the witness closing cor. of secs. 3 and 4, T. 20 N., R. 18 W., one mile easterly, SW to the sun:

	(1st set)	(2nd set)
Mean time of observation, 105th meridian standard time:	2^h42^m P.M.	2^h44^m P.M.
Declination of sun at mean time of observation:	$23^{\circ}09'30''$ S.	
Mean observed vertical angles to sun's center:	$24^{\circ}47'$	$24^{\circ}32'$
Mean horizontal angles from ref- erence point to sun's center:	$121^{\circ}06'$	$121^{\circ}38'$
True bearing to reference point:	S. $89^{\circ}48'15''$ E.	

The lines were measured with a Lufkin steel tape, 200 ft. in length, graduated every foot, with the end feet graduated to tenths and hundredths, and a Lufkin steel tape, 100 ft. in length, graduated every foot, with the end feet graduated to tenths. Both tapes were compared with a Chicago standard steel tape at the time of beginning the survey, and found correct.

The magnetic declination observed at each corner of the survey gave a uniform value of $15^{\circ}00'$ E.

SURVEY No. 4651

DSP MILL SITE NO. 7

Feet

At cor. No. 1 of the DSP MILL SITE NO. 7

Set an iron pin, $\frac{5}{8}$ ins. diam., 30 ins. long, 28 ins. in the ground, with stone mound alongside, with aluminum cap mkd. X-DSP-MS7-1-4651; from which

The true point for the closing cor. of secs. 4 and 5, T. 20 N., R. 18 W. bears N. $80^{\circ}56'$ W., 500.55 ft. distant,

A cor. of the location bears North, 0.4 ft. dist.

Thence N. $89^{\circ}52'$ E.

FEET	
136.	Overhead power line, on wooden poles, bears N. 3° W., and S. 3° E.
165.	Buried water line, 12 ins. diam., bears North and South.
330.0	Cor. No. 2. Set an iron pin, 5/8ths ins. diam., 30 ins. long, 28 ins. in the ground, with stone mound alongside, with aluminum cap mkd. X-DSP-MS7-2-4651; from which A cor. of the location bears N. 15° E., 1.2 ft. dist. Thence S. 0°08' E.
660.0	Cor. No. 3. Set an iron pin, 5/8ths ins. diam., 30 ins. long, 28 ins. in the ground, with stone mound alongside, with aluminum cap mkd. X-DSP-MS7-3-4651; from which A cor. of the location bears S. 41° E., 1.0 ft. dist. Thence S. 89°52' W.
330.0	Cor. No. 4. Set an iron pin, 5/8ths ins. diam., 30 ins. long, 28 ins. in the ground, with stone mound alongside, with aluminum cap mkd. X-DSP-MS7-4-4641; from which A cor. of the location bears South, 1.4 ft. dist. Thence N. 0°08' W.
660.0	Cor. No. 1, and place of beginning. The DSP MILL SITE NO. 7 contains 5.00 acres.
SURVEY No. 4651	
AREAS	
Total Area, DSP MILL SITE NO. 7	Acres 5.000
LOCATION	
This survey is located in Lot 4, Sec. 4, T. 20 N., R. 18 W., G. & S. R. M., Mohave County, Arizona.	
The survey of the DSP MILL SITE NO. 7 lies wholly within the second amended location as marked on the ground; the 4 Cors. differing from the corners of the location to the extent previously shown.	

FEET

EXPENDITURES

The improvements and the value of the labor and improvements, made upon the said mill site by the claimant or its grantors are as follows:

No. 1

A drilled well, the center of which bears S. 33°36'E., 300 ft. from Cor. No. 1, cased to a depth of 1500 ft. with a collar diameter of 20 ins.

Value: \$20,000.

OTHER IMPROVEMENTS

A control house, made of sheet-metal, 8 x 8 ft. in size, with the sides on cardinal directions, the NW cor. of which bears S. 31°06' E., 292 ft. from Cor. No. 1.

Claimant herein.

A fenced yard enclosing the transformer, well, and pump, comprised of a fence of cyclone construction, 7 ft. in height, the SW cor. of which being identical with the NE cor. of the above-described control house and the courses of which proceeding as follows:

East, 30 ft.; North, 55 ft.; West, 42 ft.; South 13 ft.; East, 12 ft.; and South, 42 ft. to the place of beginning.

Claimant herein.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

The true point for the closing cor. of secs. 4 and 5, was recovered by measuring South, 100.0 ft. from its reference point, a brass-capped pipe, 1½ ins. diam., firmly set, standing 12 ins. above the surface of the ground and mkd.: X-T20N-R18W-5-4-RP100 and setting a wooden stake at the true point for the closing corner.

The standard ¼ sec. of sec. 33 and the standard ¼ sec. cor. of sec. 34 were not found. The witness closing cor. of secs. 3 and 4, monumented by a malpais stone, firmly set and properly mkd., was found and the solar observations taken toward same.

Correcting the said solar meridian to the true point for the standard sec. cor. of secs. 3 and 4 by the record values of N. 0°02' W., 47 links, the bearing of the Township line was found to be N. 89°51'30" E., instead of East and West, as approved.

FIELD ASSISTANTS

Hoyd Patty
James Steele

Chairman
Flagman

FEET	DESCRIPTION	
11.300	<p>The improvements and the value of the improvements, made upon the site with the following improvements and as follows:</p> <p>A drilled well, the center of which bears S. 30° E. 1500 ft. with a collar diameter of 20 ins. Value: \$20,000.</p>	To I
11.300	<p>OTHER IMPROVEMENTS</p> <p>A control house, made of sheet-metal, nine, with the sides on existing structure, the lot of which bears S. 21° 00' E., 502 ft. from corner No. 1. Claimant herein.</p> <p>A fence yard enclosing the driveway, well, and part of a fence of square construction, 7 ft. high, the SW cor. of which being identical with the SW cor. of the above-described control house and the corner of which proceeding as follows:</p> <p>East, 30 ft.; North, 25 ft.; West, 15 ft.; South, 15 ft.; East, 15 ft.; and South, 25 ft. to the place of beginning. Claimant herein.</p>	
11.300	<p>OTHER CORNER IMPROVEMENTS AND SURVEY DATA</p> <p>The true point for the closing cor. of sec. 4 and 5, was recovered by re-surveying from the 1897-98 reference point, a three-capped pipe, 12 in. diameter, standing in the above the surface of the ground and this: N-18°-21'30"-E-1100 ft. setting a wooden stake at the true point for the closing corner. The standard 1/2 sec. of sec. 4 and 5 was standard 1/2 sec. of sec. 4 were not found. The closing cor. of sec. 3 and 4, recovered by a magnetic stone, finally set and properly marked, was found and the corner established therefrom.</p> <p>Correcting the said corner reading to the true point for the standard sec. cor. of sec. 3 and 4, the record value of N. 18° 21' 30" E., 1100 ft. bearing of the Township line was found to be N. 18° 21' 30" E., 1100 ft. as approved.</p>	
11.300	<p>Claimant Morgan</p>	<p>1100 Party John Steele</p>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Robert LENON	Date Aug. 5th, 1967
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I HEREBY CERTIFY That in pursuance of an order received from the Bureau of Land Management, at Phoenix, Arizona, dated **October 10, 1966**, 1966, I have carefully executed the survey of the claim of **Duval Corporation** known as the (lode, placer, or mill site) **DSP MILL SITE NO. 7** situated in the **Wallapai Mining District, in Sec. 4** Township **20 N.**, Range **18 W.**, **Gila and Salt River** Meridian, in the State of **Arizona**.

This survey, designated as number **4651**, 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 the specific manner described in the foregoing field notes.


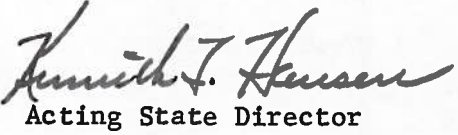
I FURTHER CERTIFY That the labor expended and improvements made upon and for the benefit of the (lode or placer) _____ location(s) embraced in the said mining claim by claimant(s) or _____ grantors are fully stated in my report. The character, extent, location, and itemized value are specified in full 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.

Patagonia, Arizona (Location)  (Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management
Office
Arizona State Office
Location
Phoenix, Arizona
Date
December 11, 1967

The foregoing field notes of mineral survey number **4651**, in **Section 4**, Township **20 N.**, Range **18 W.**, **Gila and Salt River** Meridian, in the State of **Arizona**, executed by **Robert Lenon**, Mineral Surveyor, under order dated **October 10**, 19 **66**, 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.

 (Authorized Signature) **Kenneth F. Hansen**
 (Title) **Acting State Director**

CERTIFICATE OF TRANSCRIPT

I 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.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
CHICAGO, ILLINOIS

July 10, 1957

July 10, 1957

James M. Smith

Department of Chemistry

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Department of Chemistry
University of Chicago
Chicago, Illinois

RE: [Illegible]

Dr. J. M. Smith
Department of Chemistry
University of Chicago
Chicago, Illinois

Dear Sir:

[Illegible]

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