

Form 4-683
(January 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey number	4682
State	Arizona
Land District	Arizona

FIELD NOTES

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

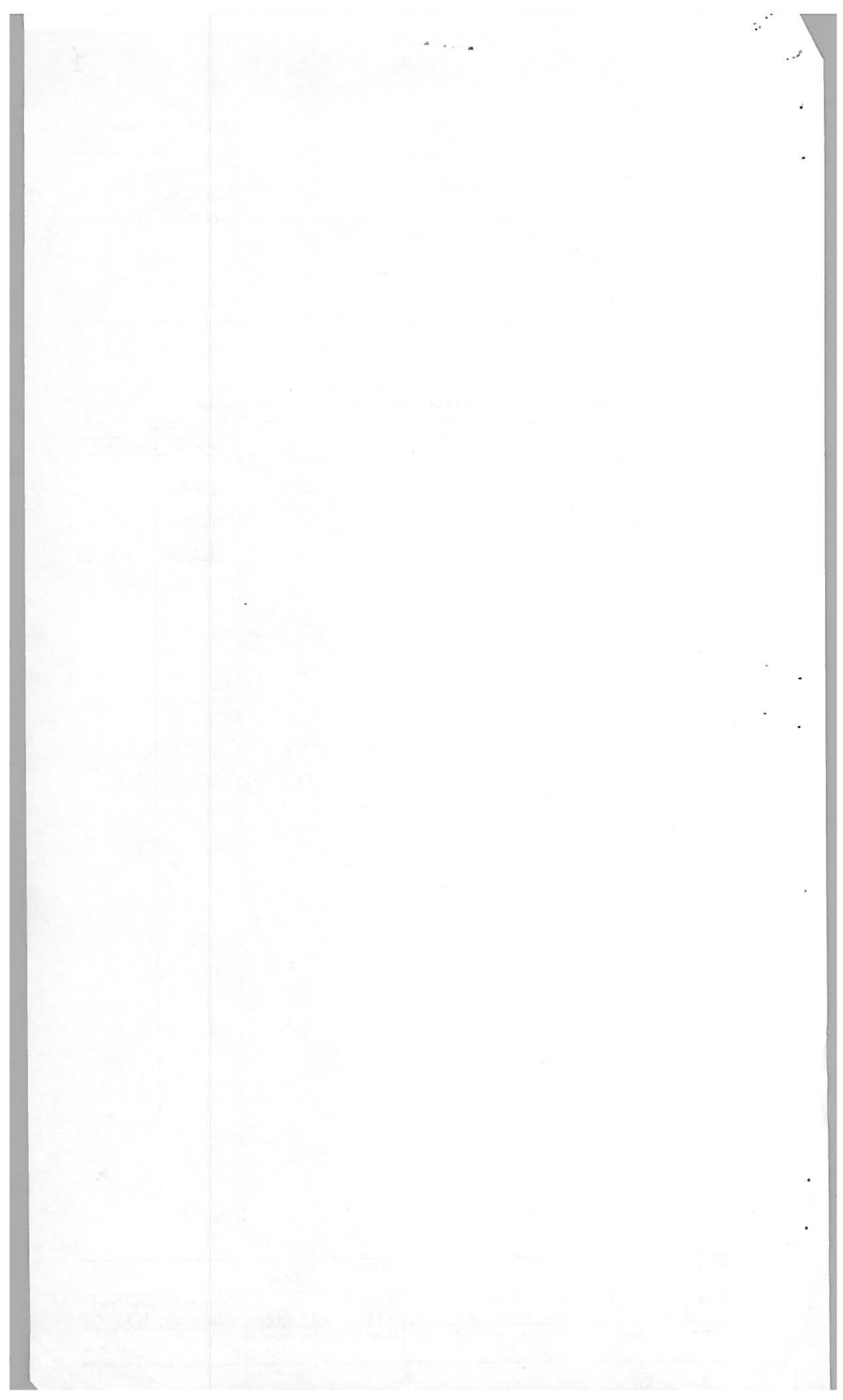
B S & K Mining Company
c/o Albert H. Mackenzie, Attorney-at-Law,
711 Arizona Title Building
Phoenix, Arizona 85004

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
Gap No. 1	6/24/68	
B S & K No. 15-X AMENDED	4/27/66	
Georgetown	6/26/54	7/17/70

Mining district		Silver Bell		County		Pima	
Section S	Township	Range	Meridian	Survey under order dated			
28 & 33	11 South	8 East	Gila & Salt River	July 30, 1970			
Survey commenced		Survey completed		Name of Mineral Surveyor			
Sept. 25, 1970		Dec. 15, 1970		Robert L. Frazer			



FEET

This survey was made with Wilde T-2 Theodolites Nos 55959 and 92997, reading to 1 second of arc.

Measurements were made with Cubic Electrotape units Nos 205 and 206, and with a Lufkin 200 ft. steel tape. All equipment was in good condition and adjustment.

All angular values are the mean of two sets of angles in direct and inverse position, turned clockwise from the distant foresight.

Electrotape measurements were made reciprocally, and values are the mean of measurement by both units.

Taped traverses were short, and checked by angles turned to control points at end of traverses. "Hanging" lines were angularly controlled by closing the horizon, and by two tape readings.

Electrotape measurements were made to at least one point on each end of each claim. Position of these points was checked by measuring the angle at the point being located, from the foresight station to some other control point. This result was compared to calculated bearing values for these lines.

On September 25, 1970, at latitude $32^{\circ} 26' 30''$ N., longitude $111^{\circ} 32' 30''$ W (from U.S.G.S. Quadrangle Map "Vaca Hills"), at the corner common to Sections 28, 29, 32, 33 of T-11-S, R-8-E, G. & S.R.B. & M., I observed Polaris at the average time of $8^{\text{h}}:25^{\text{m}}:07^{\text{s}}$ P.M. Angles in direct and inverse positions were turned clockwise from control point W-1, a $5/8$ in. steel rod with an aluminum cap affixed thereon and stamped "W-1"; to Polaris.

Ave. Angle - W-1 to star	
at 8-24-07 PM	$238^{\circ} 36' 44''$
Calc. position of Star	
(West of Meridian)	$+ 1^{\circ} 01' 47''$
Calc. angle,	
Meridian to W-1	$239^{\circ} 38' 31''$
	-180°
Calc. bearing	
Sec. Cor. to W-1	$S 59^{\circ} 38' 31'' E$

FEET

Pt. W-1 and the Sec. Cor. are control points for M.S. No. 4630 and M.S. No. 4630 Amended. The bearing of the line between these points, as calculated for the above-mentioned surveys is S 59° 39' 13" E, a variance of 0° 00' 42".

Due to the inter-relationship of this survey with Surveys No. 4630 and 4630 Amended, and that these points are also controlling for this survey, I used the bearing of S 59° 39' 13" E as the basis for this survey.

The position of final corners of the survey was checked in field by comparison of an angle turned at the corner between two control points and the difference in calculated bearings from the corner to the control points. No angular error larger than 0° 03' was found.

Roads and drainages are scaled from an aerial photograph enlarged to a scale of 1" = 200'. Scaling on the enlarged photo between identified points indicates a scale-error of less than 5%. Bearings thereof by protraction.

Magnetic bearings observed at cors. of survey show a mean Magnetic Declination of 12° 30" East.

GAP NO. 1 LODE

Originally located as BS&K No. 5 lode in Surv. No. 4630, this and other claims were subject to a court action by an adjoining locator. This action is identified as Civil Cause No. 98311, in Superior Court of Arizona, Pima County, dated August 22, 1968.

Pursuant to judgement in the afore-said action, the location point and discovery shaft for BS&K No. 5 lode, as surveyed under M.S. No. 4630, and M.S. No. 4630 Amended, was in invalid ground; specifically in NSB No. 19, a senior lode location.

Applicant, BS&K Mining Co., relocated the BS&K No. 5 lode as Gap No. 1 Lode, with the intent of identical boundaries. The Location Pt. and Discovery shaft were made in valid ground, about 200 ft. Westerly of the Easterly end line. (line 3-4 of BS&K No. 5 lode).

FEET	
	<p>Due to the dispersed porphyry-type of mineral occurrence common to the whole area, no finite vein or lode is visible on the surface, so no attempt was made to relocate or make discovery on the exact lode line as defined in BS&K No. 5. The Gap No. 1 Discovery shaft was constructed some 35 ft. Southerly thereof.</p> <p>The lode line of Gap No. 1 was set up as a line extending from the mid-point of line 3-4 of Gap No. 1 (line 1-2 BS&K No. 5 lode) through the center of the discovery cut, intersecting line 3-4 of BS&K No. 5 lode at a point 335.16 ft., S. 19°56'48" E., from Cor. No. 3, thus leaving excessive ground Northerly of the above-described lode line of Gap No. 1.</p> <p>Applicant elected to pull the Northeasterly Corner (No. 1) in to correct this excess, making line 4-1 parallel with the lode line. The Easterly end line was pulled 0.3 ft. Westerly and parallel to line 3-4 of BS&K No. 5 to reduce the Northerly line (4-1) of Gap No. 1 to the allowable statutory length.</p> <p>Due to the now uncommon boundaries of Gap No. 1 lode and the BS&K No. 5 lode of M.S. No. 4630 Amended, the claimant requested cancellation of the survey of the BS&K No. 5 lode, M.S. No. 4630 Amended, and relocated the claim as the Gap No. 1 lode.</p> <p>At cor No. 1, located as heretofore described, set a 5/8 in. diam. steel rod, 30 ins. long, with an aluminum cap affixed thereon, projecting approx. 15 ins. in a mound of stones, stamped USMS 4682 Gap 1-1; Cor. falls in wash, drains N. 35° W.; from which</p> <p>The 1/4 cor. common to Secs. 28 and 33, T. 11 S., R. 8 E., bears N. 45°01'07" W., 339.21 ft. dist. A 1 in. diam. pipe, projecting 10 ins. above ground, with G.L.O. brass cap affixed thereon, firmly set, and stamped as in the official record.</p> <p>Cor. No. 3, BS&K No. 5 lode, Surv. No. 4630 AMD., bears N. 19°27'25" E., 35.15 ft. dist.</p> <p>Cor. No. 1, BS&K 15-X AMD lode, of this survey, bears S. 0°37'58" E., 123.59 ft. dist.</p> <p>Cor. No. 3, New York lode, Surv. No. 4630 AMD., bears S. 53°11'03" W., 164.11 ft. dist.</p> <p>Cor. No. 3, BS&K No. 13 lode, Surv. No. 4630 AMD., bears S. 34°29'30" W., 381.59 ft. dist.</p> <p>The common Southerly Cor. of NSB Nos. 17 and 18, lode locations, bears S. 34°02'16" W., 377.99 ft. dist.</p> <p>Thence S. 19°56'48" E.</p>

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FEET		
115.94	Intersect line 1-2, BS&K No. 15-X AMD. lode of this survey.	
205.52	Intersect Southerly line of NSB No. 17, a lode location, at a point from which the Southwesterly cor. thereof bears S. 66°55'10" W., 306.20 ft. dist.	
300.00	The lode line, center of disc. shaft, bears S. 71°23'03" W., 197.50 ft. dist.	
500.0	Center of arroyo, 30 ft. wide, drains West.	
505.73	Intersect the Northerly line of NSB No. 12, a lode location, at a point from which the Northwesterly Cor. thereof, bears S. 66°48'30" W., 292.51 ft. dist.	
564.58	<p>Cor. No. 2</p> <p>Set a 5/8 in. diam. steel rod, 30 ins. long, with an aluminum cap affixed thereon, projecting approx. 15 ins., in a mound of stones. Stamped USMS 4682 GAP 1-2; from which</p> <p>Cor. No. 4, BS&K No. 5 lode, Surv. No. 4630 AMD., bears N. 70°01'52" E., 0.30 ft. dist., a steel bar as described in the record. This monument had to be disturbed, so was laid in the mound of stones around Cor. No. 2.</p> <p>Cor. No. 4, New York lode, Surv. No. 4630 AMD., bears S. 75°29'44" W., 488.92 ft. dist.</p> <p>Cor. No. 4, BS&K No. 15-X AMD. lode of this survey, bears S. 24°42'25" E., 121.66 ft. dist.</p> <p>The common Northerly cor. of NSB Nos. 11 and 12, lode locations, bears S. 78°17'37" W., 295.09 ft. dist.</p> <p style="text-align: center;">Thence S. 70°01'52" W.</p>	
0.62	Intersect line 4-1, BS&K No. 15-X AMD., lode of this survey.	
288.83	Intersect the common line of NSB Nos. 11 and 12, lode locations, at a point from which their common Northerly cor. bears N. 24°16'29" W., 42.53 ft. dist.	
290.0	Center of road bears N. 80° W., S. 80° E.	

FEET	
613.94	Intersect line 2-3, BS&K No. 4 lode, Surv. No. 4630 AMD. at a point from which Cor. No. 2 bears N 22° 56' 31" W, 321.07 ft. dist.
890.92	Intersect the Westerly line of NSB No. 11, a lode location, at a point from which the Northwesterly cor. thereof, bears N 23° 33' 26" W, 9.95 ft. dist.
1181.11	Intersect common line 4-1 of BS&K No. 4, 2-3 BS&K No. 3 lodes Surv. No. 4630 AMD., at a point from which the common Cor. No. 1, BS&K No. 4, Cor. No. 2, BS&K No. 3, bears N 22° 56' 31" W, 291.53 ft. dist.
1499.60	<p>Cor. No. 3</p> <p>Identical with Cor. No. 1 BS&K No. 5 lode Surv. No. 4630 AMD., a steel bar as described in the record. Replaced existing Mon. with a 5/8 in. diam. steel bar 30 in. long, with an aluminum cap affixed thereon, projecting approx. 15 in., in a mound of stones Stamped USMS 4682 GAP 1-3. Laid the BS&K No. 5 mon. in the mound of stones; from which</p> <p style="padding-left: 40px;">The cor. common to Secs. 28, 29, 32, 33, T.11S., R.8E., bears N 52° 21' 10" W, 2102.89 ft. dist. A 2 in. diam. pipe with GLO brass cap affixed, projecting 10 ins. above ground. Firmly set in a North-South fence line, and stamped as in the official record</p> <p>Cor. No. 2, BS&K No. 3 lode Surv. No. 4630 AMD., bears N 26° 12' 34" E, 420.46 ft. dist.</p> <p>The common Southerly cor. of NSB Nos. 19 and 20, lode locations, bears N 18° 58' 19" W, 277.77 ft. dist.</p> <p style="padding-left: 40px;">Thence N 19° 56' 48" W</p>
15.0	Center of road bears N 30° E, S 30° W
275.32	Intersect line 1-2, BS&K No. 3 lode, Surv. No. 4630 AMD., at a point from which Cor. No. 2 bears N 67° 02' 45" E, 303.67 ft. dist.
277.47	Intersect the Southerly line of NSB No. 20, a lode location, at a point from which the Southeasterly cor. thereof, bears N 66° 55' 03" E, 4.73 ft. dist.

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FEET		
300.00	The lode line. Center of disc. shaft bears N 71° 23' 03" E, 1302.50 ft. dist.	
360.0	Center of road bears N 60° E, S 60° W.	
363.52	Intersect the line common to NSB Nos. 19 and 20, lode locations, at a point from which their common Southerly cor. bears S 23° 05' 58" E, 85.92 ft. dist.	
450.0	Enter wash 20 ft. wide, drains N 20° W, from S 30° W.	
500.0	Leave wash 20 ft. wide, drains N 50° W, from S 20° E.	
600.00	<p>Cor. No. 4, identical with Cor. No. 2 of BS&K No. 5 lode, Surv. No. 4630 AMD., a steel bar as described in the record. Replaced with a 5/8 in. diam. steel bar, 30 in. long, with an aluminum cap affixed thereon, projecting approx. 15 in. in a mound of stones. Stamped USMS 4682 GAP 1-4. Laid BS&K No. 5 mon. in stone mound. Cor. falls in wash; from which</p> <p style="padding-left: 40px;">Cor. No. 1, New York lode, Surv. No. 4630 AMD., bears N 67° 26' 28" W, 353.89 ft. dist.</p> <p>The common Southerly cor. of NSB Nos. 18 and 19, lode locations, and cor. No. 4 BS&K No. 13 lode, Surv. No. 4630 AMD., a steel bar and aluminum cap, as described in the record; bears S 84° 17' 40" E, 661.92 ft. dist.</p> <p style="text-align: center;">Thence N 71° 23' 03" E</p>	
15.00	Set witness cor. a 5/8 in. diam. steel bar 30 in. long with aluminum cap affixed thereon, projecting approx. 15 in. in a mound of stones. Stamped USMS 4682 GAP 1-4 W.C. 15'.	
128.42	Intersect line 4-1, New York lode, Surv. No. 4630 AMD., at a point from which Cor. No. 4 bears S 78° 04' 10" E, 1041.59 ft. dist.	
190.0	Center of wash, 10 ft. wide, drains N 25° W.	

FEET	
583.05	Intersect line 4-1, BS&K No. 13 lode, Surv. No. 4630 AMD., which is common with the common side line of NSB Nos. 18 and 19, lode locations; at a point from which the common Southerly cor. of NSB Nos. 18 and 19, and Cor. No. 4, BS&K No. 13 lode, a steel bar, as described heretofore, bears S. 22° 50' 25" E., 273.36 ft. dist.
595.0	Center of road bears N. 45° W., S. 45° E.
970.0	Junction of washes, drains N. 37° W., from S. 37° E., and South.
1080.0	Center of road bears N. 20° W.
1178.13	Intersect line 2-3, BS&K No. 13 lode, Surv. No. 4630 AMD., at a point from which Cor. No. 3 bears S. 22° 47' 07" E., 229.68 ft. dist.
1183.11	Intersect common line of NSB Nos. 17 and 18, lode locations, at a point from which their Southerly cor. bears S. 22° 42' 26" E., 229.99 ft.
1257.25	Intersect line 2-3 New York lode, Surv. No. 4630 AMD. at a point from which Cor. No. 3 bears S. 78° 04' 10" E., 100.85 ft. dist.
1490.00	Set witness cor., a 5/8 in. diam. steel rod, 30 ins. long, with an aluminum cap affixed thereon, projecting approx. 15 ins., in a mound of stones. Stamped USMS 4682 GAP 1-1 W.C. 10'.
1500.00	Cor. No. 1 and place of beginning.

GEORGETOWN LODE	
<p>Prior to issuance of Survey Order hereto, in company with representatives of the following involved mining companies:</p>	
<p>BS&K Mining Co., Applicant herein; and of American Smelting & Refining Co., Claimant to the NSB Group of lode locations; I went over the Georgetown ground. We viewed and examined existing location mons. as follows:</p>	
<p>The Southwest cor.; the Southeast cor.; the East Center End, and the Northeast cor. All are 4 x 4 wood posts in varying states of preservation, standing in, or lying on mounds of stone.</p>	

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FEET

The Location Mon., a 4 x 4 post in a mound of stone. Small fragments of Location Notice found in a tobacco can.

The Location Shaft is blasted in rock, of dimension 6 ft. x 4 ft., and 8 ft. in depth. No evidence of the Northwesterly Cor. Mon. was found.

The above-mentioned representatives agreed in my presence as follows:

That the Easterly end line of the Georgetown lode is defined by the above-mentioned three Easterly mons.; The Southerly side line by the above-mentioned Southeasterly and Southwesterly mons.; the Westerly end line parallel to Easterly line, originating at the Southwesterly cor. monument.

I was authorized to make a survey of the existing cors. of Georgetown lode and others and to prepare a map defining boundaries as agreed upon so that amended location might be drawn up.

This work was accomplished prior to issuance of order for Survey No. 4682, under my Arizona Land Surveyor Certification No. 1144. The survey was based on American Smelting & Refining Co. survey control and bearings, which differ slightly with the bearings of this survey, hence the disparity of bearings herein with the Location Notice.

All points were re-surveyed under Order for Survey No. 4682. Diligent search failed to discover identifiable evidence of the Northwesterly cor., or West center end.

At Cor. No. 1 set a 5/8 in. diam. steel rod, 30 ins. long, with an aluminum cap affixed thereon, projecting approx. 15 ins., in a mound of stones. Stamped USMS 4682 GT 1; from which

The $\frac{1}{4}$ cor. common to Secs. 28 and 33, T. 11 S., R. 8 E., as previously described, bears N. 75° 05' 59" W., 350.44 ft. dist.

Cor. No. 1, BS&K No. 15-X AMD. lode, of this survey bears S. 19° 36' 38" W., 290.08 ft. dist.

The common Southerly cor. of NSB Nos. 16 and 17, lode locations, bears S. 37° 19' 27" E., 313.85 ft. dist.

FEET	
	Thence N 86° 22' 31" E
93.33	Intersect common line NSB Nos. 16 and 17, lode locations, at a point from which their common Southerly cor. bears S 20° 49' 16" E, 273.33 ft. dist.
733.85	Intersect common line NSB Nos. 15 and 16, lode locations, at a point from which their common Southerly cor. bears S 21° 14' 54" E, 59.78 ft. dist.
741.52	Intersect line 1-2 BS&K No. 15-X AMD. lode, of this survey.
800.0	Center of road bears N 55° W, S 35° E.
913.22	Intersect the Southerly line of NSB No. 15, a lode location, at a point from which the Southwesterly cor. thereof, bears S 66° 55' 03" W, 171.04 ft. dist.
1030.85	<p>Cor. No. 2, identical with loc. Mon., a decayed 4 x 4 post in a mound of stones. Set a 5/8 in. diam. steel bar 30 in. long with an aluminum cap affixed thereon, projecting approx. 15 in., in a mound of stones. Stamped USMS 4682 GT 2; from which</p> <p style="text-align: center;">The common Southerly cor. of NSB Nos. 15 and 16, lode locations, bears S 74° 49' 47" W, 284.66 ft. dist.</p> <p style="text-align: center;">Thence S 17° 57' 33" E</p>
216.17	The lode line, identical with a decayed 4 x 4 post. Center of disc. shaft bears S 86° 12' 09" W, 609.23 ft. dist.
261.72	Intersect the Northerly line of NSB No. 14, a lode location, at a point from which the Northwesterly cor. thereof, bears S 66° 58' 40" W, 220.84 ft. dist.
421.72	<p>Cor. No. 3.</p> <p>Set a 5/8 in. diam. steel rod 30 in. long, with an aluminum cap affixed thereon, projecting approx. 15 in. in a mound of stones. Stamped USMS 4682 GT 3; from which</p> <p style="text-align: center;">The corresponding loc. mon., a decayed 4 x 4 post in a mound of stones, bears N 86° 22' 31" E, 7.10 ft. dist.</p>

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FEET		
	<p>The common Northerly cor. of NSB Nos. 13 and 14, lode locations, bears N 75° 23' 27" W, 261.03 ft. dist.</p> <p>Thence S 86° 22' 31" W</p>	
90.0	Center of road bears N 15° W, S 15° E.	
218.89	<p>Intersect common line of NSB Nos. 13 and 14, lode locations, at a point from which their common Northerly cor. bears N 23° 11' 23" W, 86.68 ft. dist.</p>	
430.0	Center of road bears N 40° W, S 50° E.	
479.68	<p>Intersect Northerly line of NSB No. 13, a lode location, at a point from which the Northeasterly cor. thereof bears N 66° 57' 42" E, 245.73 ft. dist.</p>	
1030.85	<p>Cor. No. 4, identical with Loc. Mon., a 4 x 4 post in a mound of stones.</p> <p>Set a 5/8 in. diam. steel rod, 30 in. long with an aluminum cap affixed thereon, projecting approx. 15 in. in a mound of stones. Stamped USMS 4682 GT 4.</p> <p>Thence N 17° 57' 33" W</p>	
116.30	<p>Intersect Southerly line NSB No. 17, a lode location, at a point from which the Southeasterly cor. thereof, bears N 66° 55' 10" E, 104.49 ft. dist.</p>	
180.0	<p>Center of wash 30 ft. wide drains N 65° W, from S 25° E.</p>	
200.95	<p>Intersect line 1-2, BS&K No. 15-X AMD. lode, of this survey.</p>	
202.34	<p>The lode line. Disc. shaft bears N 86° 12' 09" E, 420.83 ft. dist.</p>	
421.72	<p>Cor. No. 1 and place of beginning.</p> <p>-----</p> <p>BS&K No. 15-X AMENDED LODE</p> <p>All location monuments were found. Those defining the Easterly end line agreed reasonably with the call of Location Notice. Those defining the Westerly end of the location were in excess. Claimant elected to pull the Westerly end line in to the described distance from the Discovery shaft, and to establish Cor. No. 1 so that statutory lateral dimensions from the lode line are not exceeded.</p>	

FEET	
	<p>At Cor. No. 1, located as above described, set a 5/8 in. diam. steel rod 30 in. long, with an aluminum cap affixed thereon, projecting approx. 15 in., in a mound of stones. Stamped USMS 4682 BSK 15 X AM 1: from which</p> <p style="padding-left: 40px;">The 1/4 cor. common to Secs. 28 and 33, as previously described, bears N 33° 35' 13" W, 436.19 ft. dist.</p> <p style="padding-left: 40px;">The corresponding loc. mon., a 4 x 4 post, bears N 55° 37' 49" W, 78.18 ft. dist.</p> <p>Cor. No. 4, Georgetown lode, of this survey bears S 60° 38' 24" E, 260.90 ft. dist.</p> <p>The common Southerly cor. of NSB Nos. 16 and 17, lode locations, bears N 85° 17' 40" E, 288.62 ft. dist.</p> <p style="padding-left: 40px;">Thence N 69° 04' 40" E</p>
40.88	Intersect line 1-2, Gap No. 1 lode, of this survey.
150.0	Center of wash 30 ft. wide drains N 60° W.
177.11	Intersect line 4-1, Georgetown lode, of this survey.
277.28	Intersect common line of NSB Nos. 16 and 17, lode locations, at a point from which their common Southerly cor. bears S 20° 49' 16" E, 80.60 ft. dist.
889.19	Intersect common line of NSB Nos. 15 and 16, lode locations, at a point from which their common Southerly cor. bears S 21° 14' 54" E, 57.50 ft. dist.
896.49	Intersect line 1-2, Georgetown lode, of this survey.
930.0	Center of road bears N 55° W, S 55° E.
1483.00	Intersect the Easterly line of NSB No. 15, a lode location, at a point from which the Southeasterly cor. thereof bears S 21° 02' 57" E, 35.11 ft. dist.
1483.02	<p>Cor. No. 2, identical with loc. mon., a 4 x 4 post.</p> <p>Set a 5/8 in. diam. steel bar 30 in. long, with an aluminum cap affixed thereon, projecting approx. 15 in. in a mound of stones. Stamped USMS 4682 BSK15XAM2; from which</p>

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	<p>The Southeasterly cor. of NSB No. 15, a lode location, bears S 21° 01' 24" E, 35.11 ft. dist.</p> <p>Cor. 2 Georgetown lode, of this survey, bears S 53° 34' 50" W, 321.98 ft. dist.</p> <p>Thence S 25° 04' 55" E</p>
278.69	<p>The lode line. The disc. shaft bears S 68° 12' 01" W, 1436.55 ft. dist.</p> <p>The corresponding loc. mon., a 4 x 4 post in a mound of stones, bears N 68° 12' 01" E, 9.10 ft. dist.</p>
335.52	<p>Intersect Northerly line of NSB No. 14, a lode location, at a point from which the Northwesterly cor. thereof bears S 66° 58' 40" W, 569.22 ft. dist.</p>
546.58	<p>Cor. No. 3, identical with loc. mon., a 4 x 4 post.</p> <p>Set a 5/8 in. diam. steel bar 30 in. long with an aluminum cap affixed thereon, projecting approx. 15 in. in a mound of stones. Stamped USMS 4682 BSK15XAM3; from which</p> <p>Cor. No. 3 Georgetown lode of this survey, bears S 75° 06' 14" W, 378.48 ft. dist.</p> <p>The common Northerly cor. of NSB Nos. 13 and 14, lode locations, bears S 87° 03' 51" W, 614.16 ft. dist.</p> <p>Thence S 68° 07' 05" W</p>
470.0	<p>Center of road bears N 15° W, S 45° W.</p>
576.33	<p>Intersect common line of NSB Nos. 13 and 14, lode locations, at a point from which their common Northerly cor. bears N 23° 11' 23" W, 199.46 ft. dist.</p>
680.0	<p>Center of road bears N 20° W, S 20° E.</p>
1100.0	<p>Center of wash 20' wide drains N 85° W.</p>
1173.34	<p>Intersect common line of NSB Nos. 12 and 13, lode locations, at a point from which their Northerly common cor. bears N 23° 35' 47" W, 187.42 ft. dist.</p>
1400.0	<p>Center of road bears N 85° W, S 85° E</p>

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1481.42	<p>Cor. No. 4</p> <p>Set a 5/8 in. steel bar, 30 ins. long, with an aluminum cap affixed thereto, projecting approx. 15 ins., in a mound of stones. Stamped USMS 4682 BSK 15 X AM 4; from which</p> <p style="padding-left: 40px;">The corresponding loc. mon., a 4 x 4 post, bears S. 68° 07' 05" W., 45.70 ft. dist.</p> <p>Cor. No. 2 Gap No. 1 lode of this survey, bears N. 24° 42' 25" W., 121.66 ft. dist.</p> <p>Cor. No. 4 Georgetown lode of this survey, bears N. 2° 11' 03" W., 389.94 ft. dist.</p> <p>The common Northerly cor. of NSB Nos. 12 and 13, lode locations, bears N. 36° 20' 45" E., 355.79 ft. dist.</p> <p style="padding-left: 40px;">Thence N. 25° 04' 55" W.</p>																				
25.0	Center of road bears S. 80° W., N. 80° E.																				
121.72	Intersect line 2-3 Gap No. 1 lode of this survey.																				
180.47	Intersect Northerly line of NSB No. 12, a lode location, at a point from which the North-easterly cor. thereof bears N. 66° 48' 30" E., 312.63 ft. dist.																				
185.0	Center of wash, 25 ft. wide, drains West.																				
270.01	The lode line. Disc. shaft bears N. 68° 12' 01" E., 45.00 ft. dist.																				
480.42	Intersect Southerly line of NSB No. 17, a lode location, at a point from which the South-east cor. thereof bears N. 66° 55' 10" E., 270.73 ft. dist.																				
571.46	Cor. No. 1 and place of beginning																				

	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>AREAS</u></th> <th style="text-align: right;"><u>Acres</u></th> </tr> </thead> <tbody> <tr> <td>Total Area, Georgetown</td> <td style="text-align: right;">9.669</td> </tr> <tr> <td>Area in conflict with:</td> <td></td> </tr> <tr> <td>BS&K No. 15-X AMD. lode, of this survey</td> <td style="text-align: right;">7.849</td> </tr> <tr> <td>NSB No. 13, lode location</td> <td style="text-align: right;">0.244</td> </tr> <tr> <td>NSB No. 13, exclusive of its conflict with BS&K No. 15-X AMD. lode</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td>NSB No. 14, lode location</td> <td style="text-align: right;">0.609</td> </tr> <tr> <td>NSB No. 14, exclusive of its conflict with BS&K No. 15-X AMD. lode</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td>NSB No. 15, lode location</td> <td style="text-align: right;">0.117</td> </tr> <tr> <td>NSB No. 15, exclusive of its conflict with BS&K No. 15-X AMD. lode</td> <td style="text-align: right;">0.000</td> </tr> </tbody> </table>	<u>AREAS</u>	<u>Acres</u>	Total Area, Georgetown	9.669	Area in conflict with:		BS&K No. 15-X AMD. lode, of this survey	7.849	NSB No. 13, lode location	0.244	NSB No. 13, exclusive of its conflict with BS&K No. 15-X AMD. lode	0.000	NSB No. 14, lode location	0.609	NSB No. 14, exclusive of its conflict with BS&K No. 15-X AMD. lode	0.000	NSB No. 15, lode location	0.117	NSB No. 15, exclusive of its conflict with BS&K No. 15-X AMD. lode	0.000
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NSB No. 15, exclusive of its conflict with BS&K No. 15-X AMD. lode	0.000																				

FEET	<u>AREAS</u>	<u>Acres</u>
	NSB No. 16, lode location	2.340
	NSB No. 16, exclusive of its conflict with BS&K No. 15-X AMD. lode	1.370
	NSB No. 17, lode location	0.645
	NSB No. 17, exclusive of its conflict with BS&K No. 15-X AMD. lode	0.451
	Total Area, BS&K No. 15-X AMD. lode	18.982
	Area in conflict with:	
	Gap No. 1 lode, of this survey	0.214
	Georgetown lode, of this survey	7.849
	NSB No. 12, lode location	1.310
	NSB No. 12, exclusive of its conflict with Gap No. 1 lode	1.305
	NSB No. 13, lode location	2.653
	NSB No. 13, exclusive of its conflict with Georgetown lode	2.409
	NSB No. 14, lode location	2.697
	NSB No. 14, exclusive of its conflict with Georgetown lode	2.088
	NSB No. 15, lode location	0.631
	NSB No. 15, exclusive of its conflict with Georgetown lode	0.514
	NSB No. 16, lode location	0.970
	NSB No. 16, exclusive of its conflict with Georgetown lode	0.000
	NSB No. 17, lode location	0.539
	NSB No. 17, exclusive of its conflict with:	
	(1) Georgetown lode	0.346
	(2) Gap No. 1 lode of this survey	0.463
	(3) Georgetown & Gap No. 1 lodes	0.269
	Total Area, Gap No. 1	20.046
	Area in conflict with:	
	Sur. No. 4630 AMD., New York lode	7.523
	Sur. No. 4630 AMD., BS&K No. 3 lode	2.023
	Sur. No. 4630 AMD., BS&K No. 4 lode	3.983
	Sur. No. 4630 AMD., BS&K No. 4 exclusive of its conflict with:	
	(1) NSB No. 11, lode location	3.872
	(2) Sur. No. 4630 AMD., New York lode	3.383
	(3) NSB No. 11, and New York	3.272
	BS&K No. 15-X AMD. lode, of this survey	0.214
	BS&K No. 15-X AMD., exclusive of its conflict with:	
	(1) NSB No. 12, lode location	0.209
	(2) NSB No. 17, lode location	0.138
	(3) NSB Nos. 12 & 17, lode locations	0.133
	NSB No. 11, lode location	0.362
	NSB No. 11, exclusive of its conflict with Sur. No. 4630 AMD., BS&K No. 4 lode	0.251
	NSB No. 12, lode location	0.338
	NSB No. 12, exclusive of its conflict with BS&K No. 15-X AMD. lode of this survey	0.333
	NSB No. 17, lode location	1.556
	NSB No. 17, exclusive of its conflict with:	
	(1) Sur. No. 4630 AMD., New York lode	1.046
	(2) BS&K 15-X AMD. lode, of this survey	1.479

	FEET		Acres
		<u>AREAS</u>	
		(3) New York lode and BS&K 15-X AMD.	0.969
		Sur. No. 4630 AMD., BS&K No. 13 lode	3.426
		Sur. No. 4630 AMD., BS&K No. 13 exclusive of its conflict with NSB No. 18, lode location	0.000
		NSB No. 18, lode location	3.456
		NSB No. 18 exclusive of its conflict with:	
		(1) Sur. No. 4630 AMD., New York lode	0.000
		(2) Sur. No. 4630 AMD., BS&K No. 13	0.030
		(3) New York & BS&K No. 13	0.000
		NSB No. 19, lode location	4.029
		NSB No. 19, exclusive of its conflict with Sur. No. 4630 AMD., New York lode	2.566
		NSB No. 20, lode location	0.005
		<u>LOCATION</u>	
		This survey is located in the SE $\frac{1}{4}$ of Sec. 28, and the NW $\frac{1}{4}$ and NE $\frac{1}{4}$ of Sec. 33, Township 8 South, Range 11 East, Gila & Salt River Base and Meridian.	
		The survey of lodes herein are identical with, or wholly within the respective locations as marked on the ground or described in location notices. The relationship of lodes of this survey to corners of respective locations are as described herein.	
		<u>EXPENDITURES</u>	
		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 Claimant or its grantors are as follows:	
No. 1		The discovery shaft of Gap No. 1 lode, the center of which being the discovery point, is on the lode line, 197.50 ft. from a point on line 1-2, 300.00 ft. from Cor. No. 1; 6 ft. x 8 ft. in dimension, 7 ft. deep, blasted in rock; which bears N. 56° 12' 32" W., 333.82 ft. dist. from Cor. No. 2. Value - \$200.00	
No. 2		The discovery monument of Gap No. 1 lode bears N. 54° 50' 44" W., 331.93 ft. dist. from Cor. No. 2, a 4 x 4 wood post in a mound of stone. Value - None	
No. 3		A 5/8 in. diam. percussion drill hole, the center of which bears N. 64° 43' 29" W., 382.32 ft. dist., from Cor. No. 2, 180 ft. deep, at \$6.75 per ft. Value - \$1215.00	

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FEET		
No. 1	<p>The discovery shaft of the Georgetown lode, the center of which is on the lode line, 420.83 ft. from a point on line 4-1, 219.38 ft. from Cor. No. 1; 6 ft. x 4 ft. in dimension, 8 ft. deep, blasted in rock; which bears S. 69° 41' 57" E., 521.12 ft. dist. from Cor. No. 1.</p> <p>Value - \$200.00</p>	
No. 2	<p>The location monument of Georgetown lode, a 4 x 4 post, bears S. 70° 44' 49" E., 518.41 ft. dist., from Cor. No. 1.</p> <p>Value - None</p>	
No. 1	<p>The discovery shaft of BS&K No. 15 X AMD., the center of which is on the lode line, 45.00 ft. from line 4-1; at a point 301.45 ft. dist. from Cor. No. 1. A 6-1/2" drill hole, 150 ft. deep.</p> <p>Value - As Described below</p>	
No. 2	<p>The discovery monument of BS&K No. 15-X AMD., bears S. 35° 14' 22" E., 272.30 ft. dist., from Cor. No. 1. A 4 x 4 wood post in a mound of stone.</p> <p>Value - None</p>	
	<p>An interest in a common improvement described as follows:</p>	
	<p>A drill hole, the center of which bears S. 33° 29' 16" E., 307.33 ft. from Cor. No. 1 of BS&K No. 15-X AMD., and which is the discovery shaft thereof. 6-1/2 in. diam., 150 ft. deep.</p>	
	<p>Value of 150 ft. at \$6.75 per ft. =</p>	
		\$ 1,012.50
	<p>Value of 1/2 Interest</p>	506.25
	<p>This improvement is for the development of the Georgetown and BS&K No. 15-X AMD. lode of this survey, which are contiguous lodes owned in common within the range of benefit of said improvement.</p>	
	<p>Five hundred dollars or over has been expended in this improvement in such a manner as tends to the development of the aforesaid two lodes of this survey subsequent to their location and to the time since common ownership and contiguity have prevailed; therefore, an undivided one-half interest is hereby credited to each claim.</p>	
	<p>Except as above stated, no portion or interest in this improvement has been credited heretofore as patent expenditure to any lode claim.</p>	
	OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA	
	<p>Sur. No. 4630 AMD., BS&K Nos. 13, 3, 4 and 5 lodes, and New York lode: All cors. are 5/8 in. diam. steel rods with aluminum caps affixed,</p>	

FEET	
	<p>firmly set and properly marked. All lines checked are correct as approved. Lode locations, NSB Nos. 11 thru 20: All location cors. are 4 x 4 wood posts in mounds of stone, generally in good condition. Location notices found in many locations, all describe 600 ft. by 1500 ft. lode claims. Ties in even hundreds of feet and $\frac{1}{2}$ quadrant bearings (i.e. South or Southwest etc) from the cors. common to secs. 28, 29, 32, 33, or secs. 27, 28, 33, 34, Township 11 South, Range 8 East, G&SR M., Arizona. Discovery shafts are blasted in rock or earth to rock; locations comport reasonably with location descriptions. Discovery shafts are in the Southerly end of NSB Nos. 11 thru 14, generally $\pm 100'$ from south end line. Those in NSB Nos. 15 thru 20 are in the Northerly end, generally ± 100 ft. from North end line.</p>

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FEET

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Robert L. Frazer	Date May 17, 1971
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I HEREBY CERTIFY That in pursuance of an order received from the Division of Engineering, Bureau of Land Management, at Phoenix, Arizona, dated July 30, 1970, I have carefully executed the survey of the claim S of BS&K Mining Co. c/o Albert H. Mackenzie, Atty., 711 Arizona Title Bldg., Phoenix, Arizona 85004, known as the (lode, placer, or mill-site) Gap No. 1, Georgetown, BS&K No.15-X Amended lodes situated in Sections 28 and 33, Township 11S, Range 8E, Gila and Salt River Meridian, in the State of Arizona.

This survey, designated as number 4682, 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) 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.

P. O. Box 1711, Tucson, Arizona 85702



(Location)

(Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT

Office Arizona State Office
Location Phoenix, Arizona
Date October 14, 1971

The foregoing field notes of mineral survey number 4682, in Sections 28 and 33, Range 8 E., Gila & Salt River Meridian, in the State of Arizona, surveyed unsurveyed Township 11 S., executed by Robert L. Frazer, Mineral Surveyor, under order dated July 30, 1970, 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.



Acting State Director

(Authorized Signature)

(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.

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Division of Engineering
 State University of New York
 at Buffalo
 Buffalo, New York

Dear Sir:

I have the honor to acknowledge the receipt of your letter of the 10th inst. regarding the matter mentioned therein.

The matter mentioned in your letter is being given the consideration it merits.

I am, Sir, very respectfully,
 Yours truly,
 [Signature]

Very truly yours,
 [Signature]

Very truly yours,
 [Signature]



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ARIZONA STATE OFFICE

9605 (942)
M.S. 4682

NOTICE OF CANCELLATION OF MINERAL SURVEY

The Georgetown, BS&K No. 15-X AMENDED and Gap No. 1 lodes, Mineral Survey No. 4682, located in sections 28 and 33, Township 11 South, Range 8 East, Gila and Salt River Meridian, Arizona, are hereby canceled.


These lodes were relinquished by ASARCO Incorporated in a memo dated March 23, 1992.

This cancellation was necessitated to facilitate a proposed land exchange with ASARCO Incorporated and to clear the record.

The Mineral Survey Plat should be noted as follows:

"Georgetown, BS&K No. 15-X AMENDED and Gap No. 1 lodes, M.S. 4682 were canceled March 23, 1992, by memo 9605 (942) M.S. 4682 which is now a part of the original field notes."

March 23, 1992
Date



Chief Cadastral Surveyor of Arizona

1914

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
CHICAGO, ILL.

REPORT OF THE CHEMISTS

The following report was prepared by the chemists of the Department of Chemistry, University of Chicago, in response to a request from the Board of Trustees of the University of Chicago, dated June 10, 1914.

The report is based on the work done during the year 1913-1914.

The work of the chemists of the Department of Chemistry, University of Chicago, during the year 1913-1914, has been devoted to the study of the properties of the various elements and compounds of the periodic system.

The work has been carried out in the following order:

1. The study of the properties of the various elements and compounds of the periodic system.

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