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Item 3

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(See map files)  
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TONGAH MINING CO. OF NEVADA	
MINING AND EXPLORATION DEPARTMENTS	
REC'D AUG -5 1913	
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R e p o r t

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T H E K E Y S T O N E G R O U P

Hot Creek Range - Rattlesnake Canyon

N y e C o u n t y

N e v a d a

Examination-July 21/13  
Report: July 29/13.  
By W.H.Sirdevan.



## R e p o r t

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#### T H E   K E Y S T O N E   G R O U P

The Keystone Group is located in the Hot Creek Range of Mountains, in Rattlesnake Canyon, Nye County, Nevada. There is no organized mining district. There are fourteen full claims in the group, and these are situated so as to include all of Keystone Mountain. (See accompanying map). The property is about six miles southwest from the Hot Creek Ranch - which is 75 miles from Tonopah on the main auto road between Tonopah and Ely. The Hot Creek Consolidated Mine - upon which considerable development work has been done - adjoins the Keystone Group on the east.

#### Geology.

The ore occurs in fissure-filled, quartz veins in dolomitic limestone. The chief value is in the silver content - only a trace of gold being present. The veins vary in width from 1' to 4', strike northeast, and dip to the north at a steep angle. The gangue is hard, white quartz with some calcite, and the best grade of ore is stained by black and green specks of silver sulphide said to be Stromeyerite. The high grade ore is easily sorted from the nearly barren quartz, and it is stated that \$98,000 worth of this picked ore was shipped to Swansea, Wales, by the original locators about 1860 to 1870. Silver was about double its present value at that time, however, making it possible to ship ore that could not be so handled at the present time.

#### Development Work.

Very little development work has been done on the property. There are two shafts each about sixty feet deep on the vein, but



but there were no ladders or other means of getting to the bottom of them at the time this examination was made. The rest of the development work consists of shallow trenches across the veins, and all of the samples taken represent the value of the veins at the surface.

Sampling Results.

NO.	Width	A s s a y			Value	Total Value	Location
		Gold	Value	Silver			
1	1.5-2'	tr	-	16.00	\$8.80	\$8.80	On Comstock claim-Grab from 1 ton pile of ore-probably better grade than cut across the vein.
2	1'-3'	tr	-	23.90	\$13.20	\$13.20	On Monarch claim-Grab from ore pile-equivalent to best cut across the vein.
3	22"	tr	-	5.10	\$2.80	\$2.80	On Golding No.1 Claim-Cut across vein with geology pick-not large sample but representative- low grade.
4	15"	tr	-	16.00	\$8.80	\$8.80	On Mogul Claim-Grab from three dumps and representing about 100' along outcrop-shaft 60' deep here-Fair sample
5	--	tr	-	87.80	\$48.30	\$48.30	On Mogul Claim-Picked sample from best ore on dumps as in No.4. Claim over \$100.
6	3'	tr	-	1.20	\$ .66	\$ .66	On Sunnyside Claim-at junction of Noble Five vein-grab from dump-lower than vein full width.
7	40"	tr	-	.76	\$ .42	\$ .42	On Sunnyside Claim-cut across two 20" branches at point where No.6 was taken-looks lean
8	54"	tr	-	15.80	\$ 8.70	\$ 8.70	On Noble Five Claim-strongest vein showing-cut across vein-claim \$50-looks fair.



Property Ownership and Terms for Purchase.

The property is owned by seven people - among whom James Hillyer (who accompanied me on this examination) owns 26% or the largest interest, and is authorized to act for others. Following are the terms under which the property may be obtained:

Total Price \$80,000. Will give a working option for six months with \$10,000 due at the end of this period. Balance at six month intervals until the total price is paid.

Working Conditions.

Labor. Labor costs would be about the same as at Tonopah.

Power. Gasoline or coal must be used as fuel, electric power not being available.

Freight Rates. Hauling ore from Hot Creek to Tonopah costs \$20 per ton. Hauling supplies from Tonopah to the Mine would cost from \$20 to \$30 per ton. This high freight rate would increase the power cost very materially.

Water. The Hot Creek Consolidated had considerable water in their development work, and found it necessary to install an expensive pumping plant. There are several springs in the vicinity of the Keystone Group from which a supply of water for mill and domestic purposes could be developed.

Timber. There is considerable scrub pine timber on the claims, and on the surrounding hills. This will serve for use as fuel, and the large butts could probably be used for mine timbers.

Conclusions.

With the railroad over seventy miles distant from the property, and other conditions as above - the total working costs would be very high. Shipping ore must average from \$30.00 to \$40.00 per ton to pay expenses. It is doubtful if ore running less than \$15 per ton could be worked here even if the property were properly equipped. None of the average samples taken indicate ore of this grade



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The grade of ore may improve with depth, but the surface prospects are not sufficiently encouraging to recommend further consideration of the property by this company.