

**Goldstrike, Utah Project
Antimony Ridge
Report on Metallurgical Test Work
February 2025**

Prepared for:

**Pilot Goldstrike, Inc.
1301 Railroad Street, Suite 110
Elko, Nevada 89801**

Prepared by:



**Kappes, Cassidy & Associates
7950 Security Circle
Reno, Nevada 89506**

Project No. 9059 C

Report I.D.: KCA0240044_GSU05_01

File: 9059

TABLE OF CONTENTS

<u>Section</u>	<u>Location</u>
1.0	Summary of Metallurgical Test Work 1-1
1.1	Sample Receipt and Preparation 1-1
1.2	Head Analyses 1-2
1.3	Gravity Test Work 1-2
1.4	Flotation Test Work 1-5
1.5	Discussion 1-10
1.6	Further Test Work..... Error! Bookmark not defined.
2.0	Sample Receipt and Preparation 2-1
2.1	Sample Receipt 2-1
2.2	Sample Preparation 2-4
3.0	Head Analyses 3-1
3.1	Head Analyses for Gold and Silver 3-1
3.2	Head Analyses for Carbon and Sulfur 3-2
3.3	Head Analyses for Mercury and Copper 3-2
3.4	Head Analyses for Multi-elements 3-2
3.5	Cyanide Soluble Analyses 3-5
4.0	Gravity Test Work 4-1
5.0	Flotation Test Work 5-1
5.1	Oxide Rougher Flotation Test Work..... 5-1
	5.1.1 Oxide Rougher Flotation with Copper Sulfate Pentahydrate Activator 5-1
	5.1.2 Oxide Rougher Flotation with Manganese..... 5-1
5.2	Sulfide Rougher Flotation Test Work..... 5-2
	5.2.1 Sulfide Rougher Flotation 5-2
	5.2.2 Sulfur Roast and Sulfide Rougher Flotation 5-2
5.3	Sulfur and Oxide Staged Rougher Flotation..... 5-2
6.0	Assaying Procedures 6-1
6.1	Heads and Tails..... 6-1

TABLE OF CONTENTS

Section	Location
6.2 Solution Assays.....	6-1
6.3 Multi-Element and Whole Rock Assays.....	6-1
6.4 Carbon and Sulfur Assays.....	6-1

LIST OF TABLES

Table	Location
1-1 Description of Received Material	1-2
1-2 Summary of Head Analyses – Gold, Silver and Antimony	1-2
1-3 Summary of Gravity Test Work	1-4
1-4 Summary of Flotation Test Work – Gold	1-6
1-5 Summary of Flotation Test Work – Silver.....	1-7
1-6 Summary of Flotation Test Work – Antimony	1-8
1-7 Summary of Flotation Test Work – Reagent Additions	1-9
2-1 Description of Received Material	2-1
3-1 Head Analyses – Gold and Silver	3-1
3-2 Head Analyses – Carbon and Sulfur.....	3-2
3-3 Head Analyses – Mercury and Copper	3-2
3-4 Head Analyses – Multi-element Analyses	3-3
3-5 Head Analyses – Lithium Metaborate Fusion – Whole Rock Analyses.....	3-4
3-6 Head Analyses – Cyanide Shake Tests.....	3-6
4-1 Summary of Gravity Test Work	4-2
4-2 Gravity Test Work – Head versus Tail Multi-Element Analyses	4-3
4-3 KCA Sample No. 97728 B KCA Test No. 97730 Gravity Test Work – Target 80% passing 0.212 millimeters.....	4-4
4-4 KCA Sample No. 97729 B KCA Test No. 97731 Gravity Test Work – Target 80% passing 0.212 millimeters.....	4-4
5-1 Summary of Flotation Test Work – Gold	5-3
5-2 Summary of Flotation Test Work – Silver.....	5-4
5-3 Summary of Flotation Test Work – Antimony	5-5
5-4 BS-1 KCA Sample No. 97728 B Flotation Test Work – Heads versus Tails Multi-Element Analyses	5-6
5-5 BS-2 KCA Sample Np. 97729 B Flotation Test Work – Heads versus Tails Multi-Element Analyses	5-7
5-6 Summary of Flotation Test Work – Reagent Additions	5-8
5-7 BS-1 KCA Sample No. 97728 B KCA Test No. 97734 Oxide Rougher Flotation Test	5-9

LIST OF TABLES

Table	Location
5-8 BS-1 KCA Sample No. 97728 B KCA Test No. 97740 Oxide Rougher Flotation Test	5-10
5-9 BS-1 KCA Sample No. 97728 B KCA Test No. 97743 Oxide Rougher Flotation Test	5-11
5-10 BS-1 KCA Sample No. 97728 B KCA Test No. 97738 Sulfide Rougher Flotation Test	5-12
5-11 BS-1 KCA Sample No. 97728 B KCA Test No. 97736 Sulfur Roast + Sulfide Rougher Flotation Test.....	5-13
5-12 BS-1 KCA Sample No. 97728 B KCA Test No. 97745 Sulfide and Oxide Staged Rougher Flotation Test.....	5-14
5-13 BS-2 KCA Sample No. 97729 B KCA Test No. 97735 Oxide Rougher Flotation Test	5-15
5-14 BS-2 KCA Sample No. 97729 B KCA Test No. 97742 Oxide Rougher Flotation Test	5-16
5-15 BS-2 KCA Sample No. 97729 B KCA Test No. 97741 Oxide Rougher Flotation Test	5-17
5-16 BS-2 KCA Sample No. 97729 B KCA Test No. 97744 Oxide Rougher Flotation Test	5-18
5-17 BS-2 KCA Sample No. 97729 B KCA Test No. 97739 Sulfide Rougher Flotation Test	5-19
5-18 BS-2 KCA Sample No. 97729 B KCA Test No. 97737 Sulfur Roast + Sulfide Rougher Flotation Test.....	5-20
5-19 BS-2 KCA Sample No. 97729 B KCA Test No. 97746 Sulfide Rougher Flotation Test	5-21
5-20 Sulfide and Oxide Staged Rougher Flotation Test	5-21

LIST OF FIGURES

Figure		Location
2-1	BS-1 KCA Sample No. 97728 A Photograph of Received Material	2-2
2-2	BS-2 KCA Sample No. 97728 A Photograph of Received Material	2-3
2-3	BS-1 KCA Sample No. 97728 Sample Preparation.....	2-5
2-4	BS-2 KCA Sample No. 97729 Sample Preparation.....	2-7



Kappes, Cassiday & Associates

*7950 Security Circle Reno, Nevada 89506
Telephone: (775) 972-7575 FAX: (775) 972-4567*

06 February 2025

Goldstrike, Utah Project Antimony Ridge Report on Metallurgical Test Work

1.0 Summary of Metallurgical Test Work

On 17 December 2024, the laboratory facility of Kappes, Cassiday and Associates (KCA) in Reno, Nevada received two (2) 5 gallon buckets of crushed rocks from the Goldstrike, Utah Project in Central Utah. The material received represented two (2) individual samples.

All preparation, assaying and metallurgical studies were performed utilizing accepted industry standard procedures.

1.1 Sample Receipt and Preparation

Upon receipt, the individual buckets of rocks were inventoried and weighed. The material for each separate sample was then photographed and assigned a unique sample number (KCA Sample Nos. 97728 A and 97729 A).

Sample preparation was conducted on each individual sample to provide material for head analyses, gravity and flotation test work.

A description of the material received is presented in Table 1-1.

The sample preparation procedures completed on the material received are described in detail in Section 2.

**Table 1-1.
Goldstrike, Utah Project
Description of Received Material**

KCA Sample No.	Client I.D.	Rec'd Weight, kg
97728 A	BS-1	20.23
97729 A	BS-2	20.16

1.2 Head Analyses

A portion of the head material for each individual sample was stage crushed to 80% passing 1.70 millimeters. From the blended 80% passing 1.70 millimeter material, a portion was split out and ring and puck pulverized, individually, to a target grind size of 80% passing 0.075 millimeters.

The pulverized head material was analyzed for gold and silver by standard fire assay and wet chemistry methods. The head material was also assayed semi-quantitatively for an additional series of elements and for whole rock constituents. In addition to these semi-quantitative analyses, head material was assayed by quantitative methods for carbon, sulfur and mercury. Cyanide shake testing was also conducted on a portion of the pulverized head material.

A summary of the results of the head analyses for gold, silver and antimony are presented in Table 1-2.

The detailed results of the head analysis for the material received are presented in Section 3.

**Table 1-2.
Goldstrike, Utah Project
Summary of Head Analyses – Gold, Silver and Antimony**

KCA Sample No.	Description	Average Assay, gms Au/MT	Average Assay, gms Ag/MT	Average Assay, % Sb
97728 B	BS-1	0.180	0.26	5.28
97729 B	BS-2	0.740	0.26	5.31

1.3 Gravity Test Work

Gravity testing was conducted on portions of the BS-1 and BS-2 material (KCA Sample Nos. 97728 B and 97729 B). For each test, a 1,000 gram portion of minus 1.70 millimeter material was milled to a target 80% passing 0.212 millimeter and utilized for gravity concentration test work.

A Knelson concentrator was utilized to generate an initial gravity concentrate and final tails. The initial concentrate was then hand-panned to generate the final gravity concentrate and hand-pan tailings (gravity middlings).

A summary of the results of the gravity test work is presented in Table 1-3.

The detailed results of the gravity test work are presented in Section 4.

**Table 1-3.
Goldstrike, Utah Project
Summary of Gravity Test Work**

KCA Sample No.	KCA Test No.	Description	p80 Size, mm	Avg. Head Assay, gms Au/MT	Calc. Head, gms Au/MT	Hand-pan Concentrate Results			Middling Concentrate Results			Cum. Au Wt, %
						Wt., %	Con, gms Au/MT	Au Wt., %	Wt., %	Con, gms Au/MT	Au Wt., %	
97728 B	97730	BS-1	0.212	0.180	0.185	0.1	1.591	0.7	7.1	0.151	5.8	6.5
97729 B	97731	BS-2	0.212	0.740	0.806	0.1	2.397	0.2	6.8	0.723	6.1	6.2

KCA Sample No.	KCA Test No.	Description	p80 Size, mm	Avg. Head Assay, gms Ag/MT	Calc. Head, gms Ag/MT	Hand-pan Concentrate Results			Middling Concentrate Results			Cum. Ag Wt, %
						Wt., %	Con, gms Ag/MT	Ag Wt., %	Wt., %	Con, gms Ag/MT	Ag Wt., %	
97728 B	97730	BS-1	0.212	0.26	0.26	0.1	1.82	0.6	7.1	0.26	7.1	7.7
97729 B	97731	BS-2	0.212	0.26	0.26	0.1	2.19	0.5	6.8	0.26	6.7	7.2

KCA Sample No.	KCA Test No.	Description	p80 Size, mm	Avg. Head Assay, % Sb	Calc. Head, % Sb	Hand-pan Concentrate Results			Middling Concentrate Results			Cum. Sb Wt, %
						Wt., %	Con, % Sb	Sb Wt., %	Wt., %	Con, % Sb	Sb Wt., %	
97728 B	97730	BS-1	0.212	5.28	4.09	0.1	36.75	0.8	7.1	13.28	23.1	23.9
97729 B	97731	BS-2	0.212	5.31	2.80	0.1	46.32	0.9	6.8	8.27	20.0	20.9

1.4 Flotation Test Work

Flotation testing was conducted on portions of the BS-1 and BS-2 material (KCA Sample Nos. 97728 B and 97729 B). For each test, a 1,000 gram portion of 100% passing 1.70 millimeter material was milled to a target 80% passing 0.045 millimeters. The milled material was then utilized for an oxide flotation, sulfide flotation or sulfide and oxide staged flotation test.

Oxide flotations utilized reagents target oxidized minerals, sulfide flotations utilized reagents targeting sulfidized minerals and the sulfide and oxide staged flotation test utilized reagents targeting sulfides in one stage and oxides in the next.

The gold, silver and antimony results are summarized in Tables 1-4 through 1-6. The reagent additions are presented in Table 1-7.

The detailed results of the flotation test work are presented in Section 5 of this report.

Table 1-4.
Goldstrike, Utah Project
Summary of Flotation Test Work – Gold

KCA Sample No.	KCA Test No.	Description	Test Type	Activator	Target p80 Size, mm	Head Assays, gms Au/MT	Con. Wt., %	Cumulative Gold Results		
								Calc. Head, gms/MT	Con., gms/MT	Au Wt., %
97728 B	97734	BS-1	Oxide RO	CuSO4*5H2O	0.045	0.180	26.8	0.213	0.228	28.7
97728 B	97740	BS-1	Oxide RO	MnSO4*H2O	0.045	0.180	8.6	0.149	0.154	9.0
97728 B	97743	BS-1	Oxide RO	MnSO4*H2O	0.045	0.180	38.9	0.192	0.237	48.0
97728 B	97738	BS-1	Sulfide RO	Pb(NO3)2	0.045	0.180	3.3	0.210	0.732	11.4
97728 B	97736	BS-1	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	0.180	33.6	0.247	0.243	33.1
97728 B	97745	BS-1	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	0.180	15.7	0.231	0.227	15.5
97729 B	97735	BS-2	Oxide RO	CuSO4*5H2O	0.045	0.740	16.2	0.824	0.874	17.2
97729 B	97742	BS-2	Oxide RO Low pH	MnSO4*H2O	0.045	0.740	8.0	0.674	0.559	6.6
97729 B	97741	BS-2	Oxide RO High pH	MnSO4*H2O	0.045	0.740	27.4	0.601	0.514	23.4
97729 B	97744	BS-2	Oxide RO	MnSO4*H2O	0.045	0.740	26.7	0.778	0.823	28.2
97729 B	97739	BS-2	Sulfide RO	Pb(NO3)2	0.045	0.740	2.9	0.902	1.822	5.8
97729 B	97737	BS-2	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	0.740	19.3	0.852	0.888	20.1
97729 B	97746	BS-2	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	0.740	8.2	0.884	0.804	7.5

**Table 1-5.
Goldstrike, Utah Project
Summary of Flotation Test Work – Silver**

KCA Sample No.	KCA Test No.	Description	Test Type	Activator	Target p80 Size, mm	Head Assays, gms Ag/MT	Con. Wt., %	Cumulative Silver Results		
								Calc. Head, gms/MT	Con., gms/MT	Ag Wt., %
97728 B	97734	BS-1	Oxide RO	CuSO4*5H2O	0.045	0.26	26.8	0.26	0.26	26.8
97728 B	97740	BS-1	Oxide RO	MnSO4*H2O	0.045	0.26	8.6	0.26	0.26	8.6
97728 B	97743	BS-1	Oxide RO	MnSO4*H2O	0.045	0.26	38.9	0.26	0.26	38.9
97728 B	97738	BS-1	Sulfide RO	Pb(NO3)2	0.045	0.26	3.3	0.35	3.00	28.3
97728 B	97736	BS-1	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	0.26	33.6	0.32	0.44	46.3
97728 B	97745	BS-1	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	0.26	15.7	0.27	0.32	19.0
97729 B	97735	BS-2	Oxide RO	CuSO4*5H2O	0.045	0.26	16.2	0.26	0.26	16.2
97729 B	97742	BS-2	Oxide RO Low pH	MnSO4*H2O	0.045	0.26	8.0	0.26	0.26	8.0
97729 B	97741	BS-2	Oxide RO High pH	MnSO4*H2O	0.045	0.26	27.4	0.26	0.26	27.4
97729 B	97744	BS-2	Oxide RO	MnSO4*H2O	0.045	0.26	26.7	0.26	0.26	26.7
97729 B	97739	BS-2	Sulfide RO	Pb(NO3)2	0.045	0.26	2.9	0.29	1.41	14.0
97729 B	97737	BS-2	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	0.26	19.3	0.29	0.44	28.9
97729 B	97746	BS-2	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	0.26	8.2	0.26	0.33	10.3

Table 1-6.
Goldstrike, Utah Project
Summary of Flotation Test Work – Antimony

KCA Sample No.	KCA Test No.	Description	Test Type	Activator	Target p80 Size, mm	Head Assays, % Sb	Con. Wt., %	Cumulative Antimony Results		
								Calc. Head, % Sb	Con., % Sb	Sb Wt., %
97728 B	97734	BS-1	Oxide RO	CuSO4*5H2O	0.045	5.28	26.8	4.36	5.26	32.4
97728 B	97740	BS-1	Oxide RO	MnSO4*H2O	0.045	5.28	8.6	3.72	3.59	8.3
97728 B	97743	BS-1	Oxide RO	MnSO4*H2O	0.045	5.28	38.9	3.16	3.17	39.0
97728 B	97738	BS-1	Sulfide RO	Pb(NO3)2	0.045	5.28	3.3	4.89	29.40	19.7
97728 B	97736	BS-1	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	5.28	33.6	9.44	21.47	76.4
97728 B	97745	BS-1	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	5.28	15.7	5.99	8.61	22.5
97729 B	97735	BS-2	Oxide RO	CuSO4*5H2O	0.045	5.31	16.2	3.00	4.26	23.0
97729 B	97742	BS-2	Oxide RO Low pH	MnSO4*H2O	0.045	5.31	8.0	2.60	2.76	8.5
97729 B	97741	BS-2	Oxide RO High pH	MnSO4*H2O	0.045	5.31	27.4	2.31	1.65	19.6
97729 B	97744	BS-2	Oxide RO	MnSO4*H2O	0.045	5.31	26.7	2.39	2.78	30.9
97729 B	97739	BS-2	Sulfide RO	Pb(NO3)2	0.045	5.31	2.9	3.37	23.13	19.8
97729 B	97737	BS-2	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	5.31	19.3	5.15	13.64	51.1
97729 B	97746	BS-2	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	5.31	8.2	3.51	6.18	14.4

**Table 1-7.
Goldstrike, Utah Project
Summary of Flotation Test Work – Reagent Additions**

KCA Sample No.	KCA Test No.	Description	Test Type	Target p80 Size, mm	Reagents, gms/MT											
					Na ₂ SiO ₃	CuSO ₄ *5H ₂ O	C ₁₈ H ₃₄ O ₂	Na ₂ CO ₃	MnSO ₄ *H ₂ O	Cyquest 3223	Aero 6493	Aero OX 100	Pb(NO ₃) ₂	SIBX	Pine Oil	
97728 B	97734	BS-1	Oxide RO Flot	0.045	497	497	401	--	--	--	--	--	--	--	--	--
97728 B	97740	BS-1	Oxide RO Flot	0.045	--	--	333	122677	213156	209	1.2	168	--	--	--	--
97728 B	97743	BS-1	Oxide RO Flot	0.045	--	--	220	--	1529	251	2.9	203	--	--	--	--
97728 B	97738	BS-1	Sulfide RO Flot.	0.045	--	--	--	--	--	--	--	--	993	124	64	--
97728 B	97736	BS-1	Sulfur Roast + Sulfide RO Flot.	0.045	--	--	--	--	--	--	--	--	997	125	64	--
97728 B	97745	BS-1	Sulfide + Oxide RO	0.045	1494	498	120	--	--	--	--	--	199	50	64	--
97729 B	97735	BS-2	Oxide RO Flot	0.045	491	491	396	--	--	--	--	--	--	--	--	--
97729 B	97742	BS-2	Oxide RO Flot	0.045	--	--	302	92358	214762	210	1.2	170	--	--	--	--
97729 B	97741	BS-2	Oxide RO Flot	0.045	--	--	309	188810	198016	194	1.1	157	--	--	--	--
97729 B	97744	BS-2	Oxide RO Flot	0.045	--	--	180	--	1529	251	2.9	152	--	--	--	--
97729 B	97739	BS-2	Sulfide RO Flot.	0.045	--	--	--	--	--	--	--	--	986	123	64	--
97729 B	97737	BS-2	Sulfur Roast + Sulfide RO Flot.	0.045	--	--	--	--	--	--	--	--	985	123	64	--
97729 B	97746	BS-2	Sulfide + Oxide RO	0.045	1476	492	119	--	--	--	--	--	197	49	64	--

Reagent scheme

Na₂SiO₃ Sodium silicate

CuSO₄*5H₂O Copper sulfate

C₁₈H₃₄O₂ Oleic acid

Pb(NO₃)₂ Lead nitrate

SIBX Sodium Isobutyl Xanthate

Pine Oil Pine Oil

Na₂CO₃ Soda ash

MnSO₄*H₂O Manganese Sulfate Monohydrate

Cyquest 3223 Antiprecipitant Synthetic dispersant

Aero 6493 Alkyl hydroxamate

Aero OX 100 Hydroxamate with solvents

1.5 Discussion

For the BS-1 material (KCA Sample No. 97728 B) the gravity antimony extraction was 23.9%. The oxide flotations antimony extractions ranged from 8.3% to 39.0%, with the highest extraction observed with manganese sulfate monohydrate as an activator. The sulfide flotations antimony extraction was 19.7%. The sulfide flotation on the sulfur roasted material antimony extraction was 76.4%. The sulfide and oxide staged flotation antimony overall extraction was 22.5%, with 8.5% extracted in the sulfide flotation stage and 14.0% extracted in the oxide flotation stage.

For the BS-2 material (KCA Sample No. 97729 B) the gravity antimony extraction was 20.9%. The oxide flotations antimony extractions ranged from 8.5% to 30.9%, with the highest extraction observed with manganese sulfate monohydrate as an activator. The sulfide flotations antimony extraction was 19.8%. The sulfide flotation on the sulfur roasted material antimony extraction was 51.1%. The sulfide and oxide staged flotation antimony overall extraction was 14.4%, with 3.7% extracted in the sulfide flotation stage and 10.7% extracted in the oxide flotation stage.

From this preliminary test work, an overall antimony extraction of between 51% and 76% could be achieved utilizing gravity and cleaner flotation. Based upon the preliminary gravity and rougher flotation tests completed to date, the concentrate grade would be around 48% antimony.

1.6 Further Test Work

For further test work, KCA would recommend:

- Mineralogical study to determine the relative amounts of antimony oxide (Cervantite?) to antimony sulfide (Stibnite?).
- Gravity concentration at a finer grind size than 0.212 mm (0.106 mm).
- Gravity with flotation on gravity tailings tests (after regrinding).
- Optimization of flotation at 0.106 mm and 0.075 mm.
- Optimization of oxide flotations with CuSO₄ as an activator.

2.0 Sample Receipt and Preparation

On 17 December 2024, the laboratory facility of KCA in Reno, Nevada received two (2) 5 gallon buckets of crushed rocks from the Goldstrike, Utah Project in Central Utah. The material received represented two (2) individual samples.

Sample preparation was conducted on each individual sample to provide material for head analyses, gravity and flotation test work.

2.1 Sample Receipt

Upon receipt, the individual samples were inventoried and weighed. The material for each separate sample was then photographed and assigned a unique sample number (KCA Sample Nos. 97728 A and 97729 A).

A description of the material received is presented in Table 2-1. Photographs of the material received are presented in Figures 2-1 and 2-2.

**Table 2-1.
Goldstrike, Utah Project
Description of Received Material**

KCA Sample No.	Client I.D.	Rec'd Weight, kg
97728 A	BS-1	20.23
97729 A	BS-2	20.16

**Figure 2-1.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728 A
Photograph of Received Material**



Note: The label in the photographs was printed on a 75 millimeter by 125 millimeter index card.

**Figure 2-2.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97728 A
Photograph of Received Material**



Note: The label in the photographs was printed on a 75 millimeter by 125 millimeter index card.



2.2 Sample Preparation

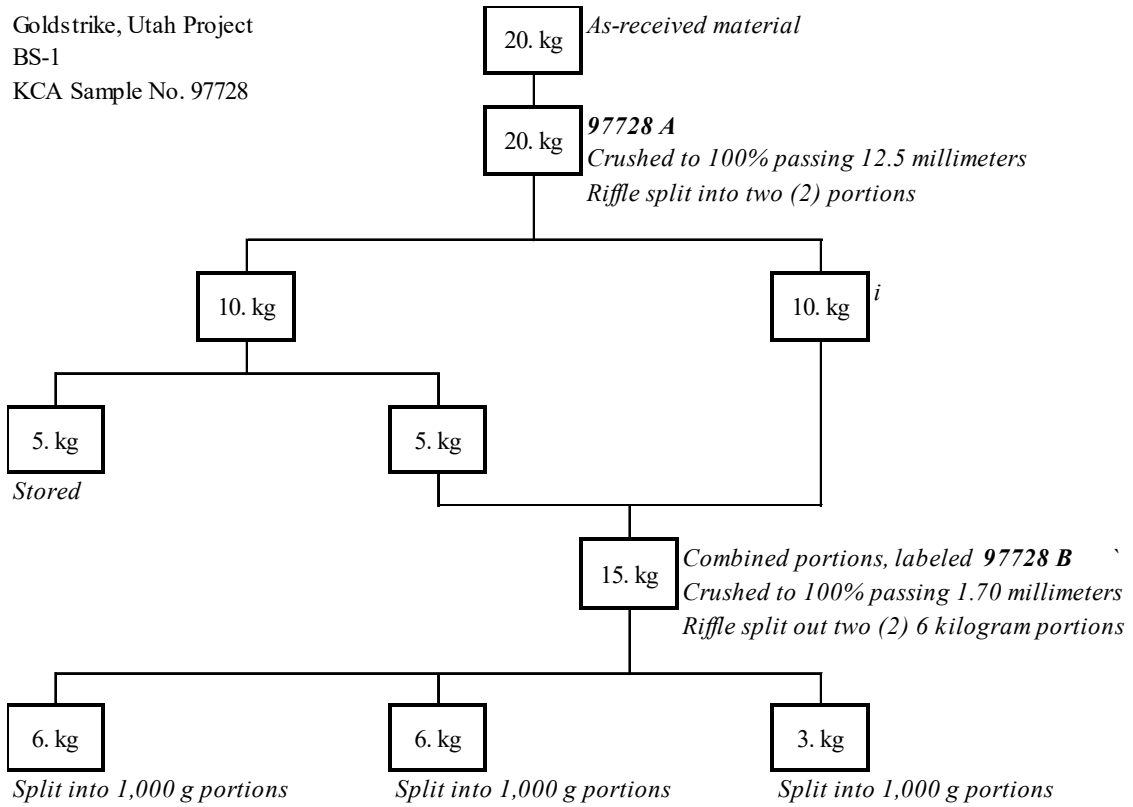
The BS-1 sample (KCA Sample No. 97728 A) was prepared as follows:

1. The as-received material was crushed to 100% passing 12.5 millimeters. The crushed material was then riffle split into two (2) portions.
2. A portion was labeled *i* and set aside
3. The remaining portion was riffle split into two (2) portions.
4. A portion was stored.
5. The remaining portion from Step 3 was combined with the portion labeled *i* from Step 2. The combined material was crushed to 100% passing 1.70 millimeters and assigned a unique sample number (KCA Sample No. 97728 B).
6. From the minus 1.70 millimeter material, two (2) 6 kilogram portions were split out and rotary split into 1 kilogram portions.
7. A 1 kilogram portion was pulverized and utilized for head analyses. Three (3) portions were utilized for gravity and flotation test work. The remaining portions were stored.

A flowsheet depicting the sample preparation is presented in Figure 2-3.

Figure 2-3.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728
Sample Preparation

Goldstrike, Utah Project
 BS-1
 KCA Sample No. 97728



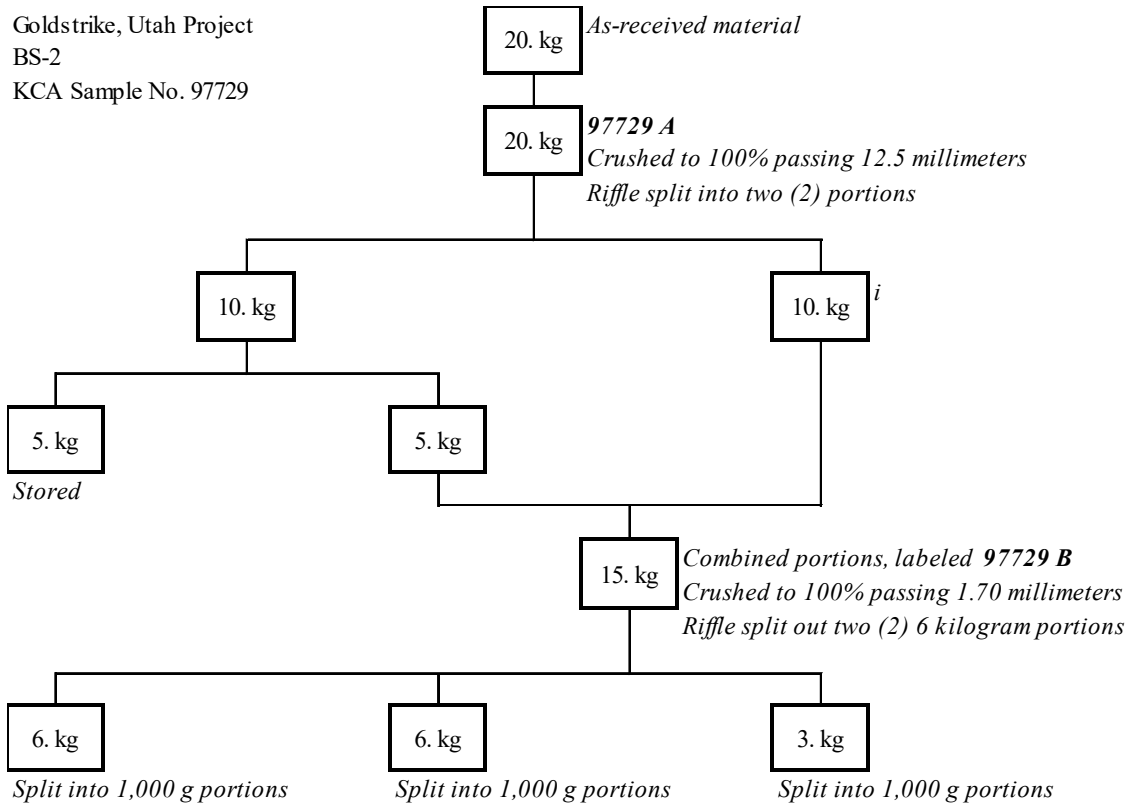
The BS-2 sample (KCA Sample No. 97729 A) was prepared as follows:

1. The as-received material was crushed to 100% passing 12.5 millimeters. The crushed material was then riffle split into two (2) portions.
2. A portion was labeled *i* and set aside.
3. The remaining portion was riffle split into two (2) portions.
4. A portion was stored.
5. The remaining portion from Step 3 was combined with the portion labeled *i* from Step 2. The combined material was crushed to 100% passing 1.70 millimeters and assigned a unique sample number (KCA Sample No. 97729 B).
6. From the minus 1.70 millimeter material, two (2) 6 kilogram portions were split out and rotary split into 1 kilogram portions.
7. A 1 kilogram portion was pulverized and utilized for head analyses. Three (3) portions were utilized for gravity and flotation test work. The remaining portions were stored.

A flowsheet depicting the sample preparation is presented in Figure 2-4.

Figure 2-4.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97729
Sample Preparation

Goldstrike, Utah Project
 BS-2
 KCA Sample No. 97729



3.0 Head Analyses

Portions of the head material were ring and puck pulverized and analyzed for gold and silver by standard fire assay and wet chemistry methods. Head material was also assayed semi-quantitatively for an additional series of elements and for whole rock constituents. In addition to these semi-quantitative analyses, head material was assayed by quantitative methods for carbon, sulfur and mercury. Cyanide shake testing was also conducted on a portion of the pulverized head material.

3.1 Head Analyses for Gold and Silver

Head analyses for gold and silver were conducted on the sample material. A portion of the head material was crushed to 100% passing 1.70 millimeters. From the blended minus 1.70 millimeter material, triplicate 200 gram splits were ring and puck pulverized to a target size of 80% passing 0.075 millimeters. Gold content was determined using standard fire assay methods with flame atomic absorption spectrophotometric (FAAS) finish. Silver content was determined using wet chemistry methods (4-acid digestion) with FAAS finish.

The results of the head analyses for gold and silver are presented in Table 3-1.

Table 3-1.
Goldstrike, Utah Project
Head Analyses – Gold and Silver

KCA Sample No.	Description	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Assay 3, gms Au/MT	Average Assay, gms Au/MT
97728 B	BS-1	0.175	0.185	0.190	0.180
97729 B	BS-2	0.763	0.717	0.759	0.740

KCA Sample No.	Description	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Assay 3, gms Ag/MT	Average Assay, gms Ag/MT
97728 B	BS-1	0.26	0.26	0.26	0.26
97729 B	BS-2	0.26	0.26	0.26	0.26

Note: The detection limit for silver with 4-Acid finish is 0.51 gms/MT.

3.2 Head Analyses for Carbon and Sulfur

Head analyses for carbon and sulfur were conducted utilizing a LECO CS 230 unit. In addition to total carbon and sulfur analyses, speciation for organic and inorganic carbon and speciation for sulfide and sulfate sulfur were conducted.

The results of the carbon and sulfur analyses are presented in Table 3-2.

Table 3-2.
Goldstrike, Utah Project
Head Analyses – Carbon and Sulfur

KCA Sample No.	Description	Total Carbon, %	Organic Carbon, %	Inorganic Carbon, %	Total Sulfur, %	Sulfide Sulfur, %	Sulfate Sulfur, %
97728 B	BS-1	0.26	0.14	0.12	0.30	0.30	<0.01
97729 B	BS-2	0.24	0.13	0.11	0.22	0.17	0.05

3.3 Head Analyses for Mercury and Copper

Head analyses for mercury were conducted utilizing cold vapor/atomic absorption methods. Total copper analyses were conducted utilizing inductively coupled argon plasma – optical emission spectrophotometer (ICAP-OES) as well as by FAAS methods.

The results of the mercury and copper analyses are presented in Table 3-3.

Table 3-3.
Goldstrike, Utah Project
Head Analyses – Mercury and Copper

KCA Sample No.	Description	Total Mercury, mg/kg	Total Copper, mg/kg	Cyanide Soluble Copper, mg/kg	Cyanide Soluble Copper, %
97728 B	BS-1	9.46	41	7.60	19%
97729 B	BS-2	9.19	41	7.60	19%

3.4 Head Analyses for Multi-elements

Semi-quantitative analyses were conducted by means of an ICAP-OES for a series of individual elements and whole rock constituents (lithium metaborate fusion/ICAP).

The results of the multi-element analysis are presented in Table 3-4. The results of the whole rock analyses are presented in Table 3-5.

Table 3-4.
Goldstrike, Utah Project
Head Analyses – Multi-element Analyses

Constituent	Unit	BS-1	BS-2
		KCA Sample No. 97728 B	KCA Sample No. 97729 B
Al	%	0.97	0.85
As	mg/kg	109	117
Ba	mg/kg	280	204
Bi	mg/kg	<2	<2
C _(total)	%	0.26	0.24
C _(organic)	%	0.14	0.13
C _(inorganic)	%	0.12	0.11
Ca	%	2.05	1.18
Cd	mg/kg	<1	<1
Co	mg/kg	1	2
Cr	mg/kg	128	154
Cu _(total)	mg/kg	41	41
Cu _(cyanide soluble)	mg/kg	7.60	7.60
Fe	%	0.76	0.67
Hg	mg/kg	9.46	9.19
K	%	0.23	0.18
Mg	%	0.06	0.05
Mn	mg/kg	107	80
Mo	mg/kg	30	45
Na	%	0.10	0.09
Ni	mg/kg	<5	7
Pb	mg/kg	12	13
S _(total)	%	0.30	0.22
S _(sulfide)	%	0.30	0.17
S _(sulfate)	%	<0.01	0.05
Sb	%	5.28	5.31
Se	mg/kg	<5	<5
Sr	mg/kg	102	62
Te	mg/kg	7	6
Ti	%	0.02	0.03
V	mg/kg	12	9
W	mg/kg	<10	<10
Zn	mg/kg	88	72

Table 3-5.
Goldstrike, Utah Project
Head Analyses – Lithium Metaborate Fusion – Whole Rock Analyses

Constituent	Unit	BS-1		BS-2	
		KCA Sample No.		KCA Sample No.	
SiO ₂	%	84.21		96.70	
Si	%		39.37		45.21
Al ₂ O ₃	%	1.70		1.58	
Al	%		0.90		0.84
Fe ₂ O ₃	%	1.05		0.95	
Fe	%		0.73		0.66
CaO	%	3.35		1.68	
Ca	%		2.39		1.20
MgO	%	0.09		0.06	
Mg	%		0.05		0.04
Na ₂ O	%	0.30		0.08	
Na	%		0.22		0.06
K ₂ O	%	0.27		0.21	
K	%		0.22		0.17
TiO ₂	%	0.07		0.06	
Ti	%		0.04		0.04
MnO	%	0.02		0.01	
Mn	%		0.02		0.01
SrO	%	0.01		0.01	
Sr	%		0.01		0.01
BaO	%	0.03		0.02	
Ba	%		0.03		0.02
Cr ₂ O ₃	%	0.04		0.04	
Cr	%		0.03		0.03
P ₂ O ₅	%	0.03		0.02	
P	%		0.01		0.01
LOI _{1090°C}	%	3.71		2.30	
SUM	%	94.88		103.72	

Note: The SUM is the total of the oxide constituents and the loss on ignition.

3.5 Cyanide Soluble Analyses

Cyanide shake tests were conducted utilizing portions of the pulverized head material. These tests provided preliminary indications of cyanide soluble metal extractions from pulverized material.

The cyanide shake tests were conducted as follows:

1. A 15 gram portion of the pulverized material was placed into a 50 milliliter centrifuge tube with a screw cap.
2. A volume equivalent to 30 milliliters of 5 gram per liter sodium cyanide (gpL NaCN) solution at ambient temperature was then added.
3. The pulp and cyanide solution were mixed well by shaking.
4. The slurry was then agitated on a table action shaker for a 24 hour leach test at room temperature.
5. The slurry was then centrifuged and the resulting clear solution was analyzed for pH and gold, silver and copper utilizing FAAS methods.
6. If the pH of the solution was less than pH 9.0 the test was re-run with the addition of 0.1 grams of hydrated lime (Ca(OH)₂).
7. The residue was discarded.

The results of individual cyanide shake tests are presented in Table 3-6.

Table 3-6.
Goldstrike, Utah Project
Head Analyses – Cyanide Shake Tests

KCA Sample No.	Description	Head Assay, gms Au/MT	Head Assay, gms Ag/MT	Leach Results								
				Final pH	Au, mg/L	Ag, mg/L	Cu, mg/L	Extraction, gms Au/MT	Extraction, gms Ag/MT	Extraction, mg Cu/kg	Est. Ext., Au, %	Est. Ext., Ag, %
97728 B	BS-1	0.175	0.26	9.9	0.08	0.02	3.80	0.160	0.04	7.60	92%	16%
97729 B	BS-2	0.763	0.26	9.6	0.35	0.02	3.80	0.700	0.04	7.60	92%	16%

4.0 Gravity Test Work

Gravity testing was conducted on portions of the BS-1 and BS-2 material (KCA Sample Nos. 97728 B and 97729 B). For each test, a 1,000 gram portion of 100% passing 1.70 millimeter material was milled to a target 80% passing 0.212 millimeters. Gravity concentration was then conducted on the milled material utilizing a Knelson concentrator. The Knelson gravity concentrate was then hand-panned to produce the final gravity concentrate and hand-pan tailings (gravity middlings).

The final gravity concentrates and middlings were dried (60°C), weighed, and analyzed for gold, silver and antimony. The Knelson gravity tails were dried (60°C), weighed and analyzed for gold, silver, antimony and an additional series of elements.

A summary of the results of the gravity test work is presented in Table 4-1. A comparison of the head multi-element analyses and the tail multi-element analyses is presented in Table 4-2. The detailed results are presented in Tables 4-3 and 4-4.

Table 4-1.
Goldstrike, Utah Project
Summary of Gravity Test Work

KCA Sample No.	KCA Test No.	Description	p80 Size, mm	Avg. Head Assay, gms Au/MT	Calc. Head, gms Au/MT	Hand-pan Concentrate Results			Middling Concentrate Results			Cum. Au Wt, %
						Wt., %	Con, gms Au/MT	Au Wt., %	Wt., %	Con, gms Au/MT	Au Wt., %	
97728 B	97730	BS-1	0.212	0.180	0.185	0.1	1.591	0.7	7.1	0.151	5.8	6.5
97729 B	97731	BS-2	0.212	0.740	0.806	0.1	2.397	0.2	6.8	0.723	6.1	6.2

KCA Sample No.	KCA Test No.	Description	p80 Size, mm	Avg. Head Assay, gms Ag/MT	Calc. Head, gms Ag/MT	Hand-pan Concentrate Results			Middling Concentrate Results			Cum. Ag Wt, %
						Wt., %	Con, gms Ag/MT	Ag Wt., %	Wt., %	Con, gms Ag/MT	Ag Wt., %	
97728 B	97730	BS-1	0.212	0.26	0.26	0.1	1.82	0.6	7.1	0.26	7.1	7.7
97729 B	97731	BS-2	0.212	0.26	0.26	0.1	2.19	0.5	6.8	0.26	6.7	7.2

KCA Sample No.	KCA Test No.	Description	p80 Size, mm	Avg. Head Assay, % Sb	Calc. Head, % Sb	Hand-pan Concentrate Results			Middling Concentrate Results			Cum. Sb Wt, %
						Wt., %	Con, % Sb	Sb Wt., %	Wt., %	Con, % Sb	Sb Wt., %	
97728 B	97730	BS-1	0.212	5.28	4.09	0.1	36.75	0.8	7.1	13.28	23.1	23.9
97729 B	97731	BS-2	0.212	5.31	2.80	0.1	46.32	0.9	6.8	8.27	20.0	20.9

Table 4-2.
Goldstrike, Utah Project
Gravity Test Work – Head versus Tail Multi-Element Analyses

Constituent	Unit	BS-1		BS-2	
		Head Assays 97728 B	Tail Assays 97730 C	Head Assays 97729 B	Tail Assays 97731 C
Al	%	0.97	0.77	0.85	0.81
As	mg/kg	109	63	117	113
Ba	mg/kg	280	182.5	204	163
Bi	mg/kg	<2	<2	<2	<2
Ca	%	2.05	1.66	1.18	1.09
Cd	mg/kg	<1	1	<1	0.75
Co	mg/kg	1	<1	2	0.75
Cr	mg/kg	128	108	154	94
Cu _(total)	mg/kg	41	43	41	37
Fe	%	0.76	0.62	0.67	0.715
Hg	mg/kg	9.46	7.36	9.19	8.94
K	%	0.23	0.155	0.18	0.14
Mg	%	0.06	0.05	0.05	0.05
Mn	mg/kg	107	87	80	67
Mo	mg/kg	30	4	45	22
Na	%	0.10	0.11	0.09	0.10
Ni	mg/kg	<5	23	7	16
Pb	mg/kg	12	<10	13	<10
Sb	%	5.28	2.825	5.31	1.925
Se	mg/kg	<5	<5	<5	<5
Sr	mg/kg	102	79	62	48
Te	mg/kg	7	10	6	7
Ti	%	0.02	<0.01	0.03	0.0125
V	mg/kg	12	8	9	8
W	mg/kg	<10	<10	<10	<10
Zn	mg/kg	88	86	72	61

Table 4-3.
Goldstrike, Utah Project
KCA Sample No. 97728 B
KCA Test No. 97730
Gravity Test Work – Target 80% passing 0.212 millimeters

KCA Sample No.	KCA Test No.	Description	Product	Wt., grams	Wt. %	Assay, gms Au/MT	Wt. % Au	Assay, gms Ag/MT	Wt. % Ag	Assay, % Sb	Wt. % Sb
97728 B	97730	BS-1	Concentrate	0.85	0.1	1.591	0.7	1.82	0.6	36.75	0.9
			Middlings	70.80	7.1	0.151	5.8	0.26	7.1	12.20	24.7
			Tails	923.30	92.8	0.186	93.5	0.26	92.3	2.83	74.5
Calculated Hd.				994.95	100.0	0.185	100.0	0.26	100.0	3.52	100.0
Assayed Hd.						0.185		0.26		5.28	

Table 4-4.
Goldstrike, Utah Project
KCA Sample No. 97729 B
KCA Test No. 97731
Gravity Test Work – Target 80% passing 0.212 millimeters

KCA Sample No.	KCA Test No.	Description	Product	Wt., grams	Wt. %	Assay, gms Au/MT	Wt. % Au	Assay, gms Ag/MT	Wt. % Ag	Assay, % Sb	Wt. % Sb
97728 B	97731	BS-2	Concentrate	0.53	0.1	2.397	0.2	2.19	0.5	46.32	0.9
			Middlings	67.50	6.8	0.723	6.1	0.26	6.7	8.27	20.0
			Tails	929.10	93.2	0.811	93.8	0.26	92.8	2.38	79.1
Calculated Hd.				997.13	100.0	0.806	100.0	0.26	100.0	2.80	100.0
Assayed Hd.						0.740		0.26		5.31	

5.0 Flotation Test Work

Flotation testing was conducted on portions of the BS-1 and BS-2 material (KCA Sample Nos. 97728 B and 97729 B). For each test, a 1,000 gram portion of 100% passing 1.70 millimeter material was milled to a target 80% passing 0.045 millimeters. The milled material was then utilized for an oxide flotation, sulfide flotation or sulfide and oxide staged flotation test.

A Denver D-12 laboratory flotation machine with an agitation speed of 1,200 to 1,400 rotations per minute was utilized for the flotation tests. The size of the flotation cell was determined by the target pulp density. The concentrates were collected during testing by means of an L-shaped scraper. Reno municipal water was utilized for milling and makeup water during the flotation test work. Compressed air was utilized to maintain the airflow during testing at a flow rate of 3 to 15 liters per minute.

The flotation concentrates were dried (60°C), weighed and assayed for gold, silver and antimony. The flotation tails were filtered, dried (60°C), weighed and assayed for gold, silver, antimony and an additional series of elements.

A summary of the gold, silver and antimony results of the flotation test work are presented in Tables 5-1 through 5-3. A comparison of the head multi-element analyses and the flotation tailings multi-element analyses is presented in Tables 5-4 through 5-5. The reagent additions are presented in Table 5-6. The detailed results are presented in Tables 5-7 through 5-19.

5.1 Oxide Rougher Flotation Test Work

Scoping tests were conducted utilizing reagents and conditions targeting the oxidized minerals.

5.1.1 Oxide Rougher Flotation with Copper Sulfate Pentahydrate Activator

The milled slurry was brought to 22% solids by weight before conditioning.

The milled material was conditioned consecutively with 40% Na₂SiO₃ (waterglass) for 5 minutes, then CuSO₄·5H₂O (copper sulfate pentahydrate) for 5 minutes, and then C₁₈H₃₄O₂ (oleic acid) for 2 minutes. A single concentrate was collected over a 5.5 or 6 minute addition of air.

5.1.2 Oxide Rougher Flotation with Manganese

The pH of the milled material was adjusted with Na₂CO₃ (soda ash) throughout conditioning. Conditioning was consecutively conducted with MnSO₄·H₂O (manganese sulfate monohydrate) for 5 minutes, then Cyquest 3223 Antiprecipitant (a synthetic dispersant) for 6 minutes, then Aero 6493 (alkyl hydroxamate) for 3 minutes, then Aero OX 100 (hydroxamate with solvents) for 4 minutes, and then C₁₈H₃₄O₂ (oleic acid) for 2

minutes. After conditioning, the slurry was brought to 21-23% solids. A single concentrate was then collected over a 10 minute addition of air.

5.2 Sulfide Rougher Flotation Test Work

Scoping tests were conducted utilizing reagents and conditions targeting the sulfidized minerals.

5.2.1 Sulfide Rougher Flotation

The milled slurry was brought to 22% solids by weight before conditioning.

The milled material was conditioned consecutively with $\text{Pb}(\text{NO}_3)_2$ (lead (II) nitrate) for 5 minutes, then SIBX (sodium isobutyl xanthate) for 3 minutes, and then pine oil for 7 minutes. The concentrate was collected over a 7 or 8 minute addition of air.

5.2.2 Sulfur Roast and Sulfide Rougher Flotation

Prior to flotation, the sample was pretreated by roasting to sulfidize some of the minerals.

The milled slurry was dried at 60°C. The dried material was then mixed with a 1:1 ratio of elemental sulfur to antimony. The mixed material was then loaded into a quartz rotary tube in 350 gram or less batches and roasted at 450°C for 30 minutes. The roasted material was then removed from the quartz rotary tube, weighed and placed into a stainless steel flotation cell, with the size of the cell determined by the target pulp density. The slurry was brought to 22% solids.

The milled material was conditioned consecutively with $\text{Pb}(\text{NO}_3)_2$ (lead (II) nitrate) for 5 minutes, then SIBX (sodium isobutyl xanthate) for 3 minutes, and then pine oil for 7 minutes. A single concentrate was collected over a 7 or 8 minute addition of air.

5.3 Sulfur and Oxide Staged Rougher Flotation

The material was milled with $\text{Pb}(\text{NO}_3)_2$ (lead (II) nitrate) and SIBX (sodium isobutyl xanthate). The milled material was then conditioned consecutively with SIBX for 3 minutes and then pine oil for 5 minutes. After conditioning, the slurry was brought to 22% solids. A single concentrate was collected over a 3 or 5 minute addition of air. The material was then conditioned consecutively with Na_2SiO_3 (waterglass) for 2 minutes, then $\text{Cu}(\text{SO}_4) \cdot 5\text{H}_2\text{O}$ (copper sulfate pentahydrate) for 6 minutes, and then $\text{C}_{18}\text{H}_{34}\text{O}_2$ (oleic acid) for 2 minutes. A single concentrate was collected over a 4 or 5 minute addition of air.

**Table 5-1.
Goldstrike, Utah Project
Summary of Flotation Test Work – Gold**

KCA Sample No.	KCA Test No.	Description	Test Type	Activator	Target p80 Size, mm	Head Assays, gms Au/MT	Con. Wt., %	Cumulative Gold Results		
								Calc. Head, gms/MT	Con., gms/MT	Au Wt., %
97728 B	97734	BS-1	Oxide RO	CuSO4*5H2O	0.045	0.180	26.8	0.213	0.228	28.7
97728 B	97740	BS-1	Oxide RO	MnSO4*H2O	0.045	0.180	8.6	0.149	0.154	9.0
97728 B	97743	BS-1	Oxide RO	MnSO4*H2O	0.045	0.180	38.9	0.192	0.237	48.0
97728 B	97738	BS-1	Sulfide RO	Pb(NO3)2	0.045	0.180	3.3	0.210	0.732	11.4
97728 B	97736	BS-1	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	0.180	33.6	0.247	0.243	33.1
97728 B	97745	BS-1	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	0.180	15.7	0.231	0.227	15.5
97729 B	97735	BS-2	Oxide RO	CuSO4*5H2O	0.045	0.740	16.2	0.824	0.874	17.2
97729 B	97742	BS-2	Oxide RO Low pH	MnSO4*H2O	0.045	0.740	8.0	0.674	0.559	6.6
97729 B	97741	BS-2	Oxide RO High pH	MnSO4*H2O	0.045	0.740	27.4	0.601	0.514	23.4
97729 B	97744	BS-2	Oxide RO	MnSO4*H2O	0.045	0.740	26.7	0.778	0.823	28.2
97729 B	97739	BS-2	Sulfide RO	Pb(NO3)2	0.045	0.740	2.9	0.902	1.822	5.8
97729 B	97737	BS-2	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	0.740	19.3	0.852	0.888	20.1
97729 B	97746	BS-2	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	0.740	8.2	0.884	0.804	7.5

Table 5-2.
Goldstrike, Utah Project
Summary of Flotation Test Work – Silver

KCA Sample No.	KCA Test No.	Description	Test Type	Activator	Target p80 Size, mm	Head Assays, gms Ag/MT	Con. Wt., %	Cumulative Silver Results		
								Calc. Head, gms/MT	Con., gms/MT	Ag Wt., %
97728 B	97734	BS-1	Oxide RO	CuSO4*5H2O	0.045	0.26	26.8	0.26	0.26	26.8
97728 B	97740	BS-1	Oxide RO	MnSO4*H2O	0.045	0.26	8.6	0.26	0.26	8.6
97728 B	97743	BS-1	Oxide RO	MnSO4*H2O	0.045	0.26	38.9	0.26	0.26	38.9
97728 B	97738	BS-1	Sulfide RO	Pb(NO3)2	0.045	0.26	3.3	0.35	3.00	28.3
97728 B	97736	BS-1	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	0.26	33.6	0.32	0.44	46.3
97728 B	97745	BS-1	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	0.26	15.7	0.27	0.32	19.0
97729 B	97735	BS-2	Oxide RO	CuSO4*5H2O	0.045	0.26	16.2	0.26	0.26	16.2
97729 B	97742	BS-2	Oxide RO Low pH	MnSO4*H2O	0.045	0.26	8.0	0.26	0.26	8.0
97729 B	97741	BS-2	Oxide RO High pH	MnSO4*H2O	0.045	0.26	27.4	0.26	0.26	27.4
97729 B	97744	BS-2	Oxide RO	MnSO4*H2O	0.045	0.26	26.7	0.26	0.26	26.7
97729 B	97739	BS-2	Sulfide RO	Pb(NO3)2	0.045	0.26	2.9	0.29	1.41	14.0
97729 B	97737	BS-2	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	0.26	19.3	0.29	0.44	28.9
97729 B	97746	BS-2	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	0.26	8.2	0.26	0.33	10.3

**Table 5-3.
Goldstrike, Utah Project
Summary of Flotation Test Work – Antimony**

KCA Sample No.	KCA Test No.	Description	Test Type	Activator	Target p80 Size, mm	Head Assays, % Sb	Con. Wt., %	Cumulative Antimony Results		
								Calc. Head, % Sb	Con., % Sb	Sb Wt., %
97728 B	97734	BS-1	Oxide RO	CuSO4*5H2O	0.045	5.28	26.8	4.36	5.26	32.4
97728 B	97740	BS-1	Oxide RO	MnSO4*H2O	0.045	5.28	8.6	3.72	3.59	8.3
97728 B	97743	BS-1	Oxide RO	MnSO4*H2O	0.045	5.28	38.9	3.16	3.17	39.0
97728 B	97738	BS-1	Sulfide RO	Pb(NO3)2	0.045	5.28	3.3	4.89	29.40	19.7
97728 B	97736	BS-1	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	5.28	33.6	9.44	21.47	76.4
97728 B	97745	BS-1	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	5.28	15.7	5.99	8.61	22.5
97729 B	97735	BS-2	Oxide RO	CuSO4*5H2O	0.045	5.31	16.2	3.00	4.26	23.0
97729 B	97742	BS-2	Oxide RO Low pH	MnSO4*H2O	0.045	5.31	8.0	2.60	2.76	8.5
97729 B	97741	BS-2	Oxide RO High pH	MnSO4*H2O	0.045	5.31	27.4	2.31	1.65	19.6
97729 B	97744	BS-2	Oxide RO	MnSO4*H2O	0.045	5.31	26.7	2.39	2.78	30.9
97729 B	97739	BS-2	Sulfide RO	Pb(NO3)2	0.045	5.31	2.9	3.37	23.13	19.8
97729 B	97737	BS-2	Sulfur Roast + Sulfide RO	Pb(NO3)2	0.045	5.31	19.3	5.15	13.64	51.1
97729 B	97746	BS-2	Sulfide + Oxide RO	Pb(NO3)2 + CuSO4*5H2O	0.045	5.31	8.2	3.51	6.18	14.4

Table 5-4.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728 B
Flotation Test Work – Heads versus Tails Multi-Element Analyses

Constituent	Unit	Head Assays 97728 B	Tail Assays 97734 B	Tail Assays 97740 B	Tail Assays 97743 B	Tail Assays 97738 B	Tail Assays 97736 B	Tail Assays 97745 B
			CuSO4 Activator O'ide Flot.	MnSO4*H2O Activator O'ide Flot	MnSO4*H2O Activator O'ide Flot	S'ide Flot.	S Roast + S'ide Flot	S'ide + O'ide Staged Flot
Al	%	0.97	0.86	0.73	0.87	0.88	1.07	0.93
As	mg/kg	109	72	82	74	92	81	99
Ba	mg/kg	280	172	229	202	248	179	146
Bi	mg/kg	<2	<2	<2	<2	<2	<2	<2
Ca	%	2.05	1.42	1.86	1.06	2.04	0.98	1.44
Cd	mg/kg	<1	2	<1	<1	1	1	1
Co	mg/kg	1	2	2	2	<1	<1	6
Cr	mg/kg	128	165	112	174	193	224	512
Cu _(total)	mg/kg	41	178	76	72	66	65	163
Fe	%	0.76	1.22	1.21	1.20	1.32	1.49	1.17
Hg	mg/kg	9.46	7.97	32.45	11.88	13.32	2.61	6.37
K	%	0.23	0.17	0.22	0.17	0.26	0.29	0.16
Mg	%	0.06	0.06	0.06	0.06	0.07	0.07	0.07
Mn	mg/kg	107	154	56550	477	206	189	164
Mo	mg/kg	30	3	34	<1	38	20	4
Na	%	0.10	0.12	0.44	0.06	0.13	0.11	0.05
Ni	mg/kg	<5	64	32	78	61	82	225
Pb	mg/kg	12	<10	15	<10	481	546	23
Se	mg/kg	<5	<5	19	6	<5	<5	11
Sr	mg/kg	102	86	96	87	105	40	88
Te	mg/kg	7	11	8	17	<2	<2	<2
Ti	%	0.02	<0.01	0.02	<0.01	0.02	0.04	<0.01
V	mg/kg	12	9	9	5	13	14	7
W	mg/kg	<10	<10	<10	<10	<10	<10	<10
Zn	mg/kg	88	100	104	98	104	60	84

Note: Manganese in high concentrations can interfere with mercury analyses.

Table 5-5.
Goldstrike, Utah Project
BS-2
KCA Sample Np. 97729 B
Flotation Test Work – Heads versus Tails Multi-Element Analyses

Constituent	Unit	Head Assays 97729 B	Tail Assays 97735 B	Tail Assays 97742 B	Tail Assays 97741 B	Tail Assays 97744 B	Tail Assays 97739 B	Tail Assays 97737 B	Tail Assays 97746 B
			CuSO4 Activator O'ide Flot.	MnSO4*H2O Activator O'ide Flot	MnSO4*H2O Activator O'ide Flot	MnSO4*H2O Activator O'ide Flot	S'ide Flot.	S Roast + S'ide Flot	S'ide + O'ide Staged Flot
Al	%	0.85	0.80	0.71	0.67	0.84	0.83	0.86	0.81
As	mg/kg	117	118	135	131	120	152	137	169
Ba	mg/kg	204	155	194	166	157	202	168	142
Bi	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2
Ca	%	1.18	0.85	1.09	1.08	0.78	1.19	0.78	0.93
Cd	mg/kg	<1	2	<1	<1	<1	1	2	<1
Co	mg/kg	2	2	4	3	6	<1	<1	3.50
Cr	mg/kg	154	117	188	148	477	143	152	290
Cu _(total)	mg/kg	41	185	61	63	69	51	63	151
Fe	%	0.67	1.43	1.26	1.17	1.16	1.30	1.44	1.34
Hg	mg/kg	9.19	8.76	33.30	34.85	11.52	12.96	1.46	10.03
K	%	0.18	0.15	0.17	0.17	0.13	0.20	0.21	0.11
Mg	%	0.05	0.04	0.05	0.04	0.05	0.05	0.05	0.05
Mn	mg/kg	80	159	48250	50950	444	128	148	135
Mo	mg/kg	45	20	42	36	9	46	24	15
Na	%	0.09	0.10	0.38	0.63	0.04	0.11	0.10	0.03
Ni	mg/kg	7	41	63	52	223	39	48	131
Pb	mg/kg	13	<10	11	10	<10	475	532	49
Se	mg/kg	<5	<5	11	11	5	<5	<5	12
Sr	mg/kg	62	51	59	56	56	59	33	53
Te	mg/kg	6	10	11	12	15	<2	<2	<2
Ti	%	0.03	<0.01	0.03	0.03	<0.01	0.03	0.03	<0.01
V	mg/kg	9	8	6	5	7	9	9	7
W	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Zn	mg/kg	72	67	78	69	60	58	49	50

Note: Manganese in high concentrations can interfere with mercury analyses.

Table 5-6.
Goldstrike, Utah Project
Summary of Flotation Test Work – Reagent Additions

KCA Sample No.	KCA Test No.	Description	Test Type	Target p80 Size, mm	Reagents, gms/MT										
					Na2SiO3	CuSO4*5H2O	C18H34O2	Na2CO3	MnSO4*H2O	Cyquest 3223	Aero 6493	Aero OX 100	Pb(NO3)2	SIBX	Pine Oil
97728 B	97734	BS-1	Oxide RO Flot	0.045	497	497	401	--	--	--	--	--	--	--	--
97728 B	97740	BS-1	Oxide RO Flot	0.045	--	--	333	122677	213156	209	1.2	168	--	--	--
97728 B	97743	BS-1	Oxide RO Flot	0.045	--	--	220	--	1529	251	2.9	203	--	--	--
97728 B	97738	BS-1	Sulfide RO Flot.	0.045	--	--	--	--	--	--	--	--	993	124	64
97728 B	97736	BS-1	Sulfur Roast + Sulfide RO Flot.	0.045	--	--	--	--	--	--	--	--	997	125	64
97728 B	97745	BS-1	Sulfide + Oxide RO	0.045	1494	498	120	--	--	--	--	--	199	50	64
97729 B	97735	BS-2	Oxide RO Flot	0.045	491	491	396	--	--	--	--	--	--	--	--
97729 B	97742	BS-2	Oxide RO Flot	0.045	--	--	302	92358	214762	210	1.2	170	--	--	--
97729 B	97741	BS-2	Oxide RO Flot	0.045	--	--	309	188810	198016	194	1.1	157	--	--	--
97729 B	97744	BS-2	Oxide RO Flot	0.045	--	--	180	--	1529	251	2.9	152	--	--	--
97729 B	97739	BS-2	Sulfide RO Flot.	0.045	--	--	--	--	--	--	--	--	986	123	64
97729 B	97737	BS-2	Sulfur Roast + Sulfide RO Flot.	0.045	--	--	--	--	--	--	--	--	985	123	64
97729 B	97746	BS-2	Sulfide + Oxide RO	0.045	1476	492	119	--	--	--	--	--	197	49	64

**Table 5-7.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728 B
KCA Test No. 97734
Oxide Rougher Flotation Test**

KCA Test No:	97734	Milling % Solids:	50	Test Date:	2-Jan-25
Objective:	Oxide RO Flot	Rougher Flotation % Solids:	22	Technician:	PRR
Sample No:	97728 B			Type:	Denver
Test Water:	Reno Tap			Cell _{tare} :	1,482 grams
Mill Type:	Rod mild steel			Cell + Slurry:	6,101 grams
Solids:	1,000 grams				
Solution:	1,000 grams				
Speed:	50 rpm				
Cycle:	1			Agitator:	1,300 rpm
New Feed:	1,000 grams	Target Grind, 80% passing 0.045 millimeters			

Stage	KCA Sample No.	Reagents (gms/MT)						Time (minutes)			Eh, mv (SHE)	Pulp pH
		Na2SiO3		CuSO4*5H2O		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t					
Grind	97728 B	0.000	0	0.000	0	0.000	0	98			-007	7.9
Con 1	97734 A	0.500	497	0.500	497	0.403	401		12	6.0	+068	7.6
Total		0.500	497	0.500	497	0.403	401	98	12	6.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97734 A	269.60	26.8	0.228	0.26	5.26	28.7	26.8	32.4	6	7	141
Tail	B	736.28	73.2	0.207	0.26	4.03	71.3	73.2	67.6	15	19	295
Head (calc)		1005.88	100.0	0.213	0.26	4.36	100.0	100.0	100.0	21	26	436
Head (direct)	97728 B			0.180	0.26	5.28						

**Table 5-8.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728 B
KCA Test No. 97740
Oxide Rougher Flotation Test**

KCA Test No: 97740
 Objective: Oxide RO Flot
 Sample No: 97728 B
 Test Water: Reno Tap
 Mill Type: Rod mild steel
 Solids: 1,000 grams
 Solution: 1,000 grams
 Speed: 50 rpm
 Cycle: 1
 New Feed: 1,000 grams

Milling % Solids: 50
 Rougher Flotation % Solids: 21

Test Date: 23-Jan-25
 Technician: PRR
 Type: Denver
 Cell_{area}: 1,482 grams
 Cell + Slurry: 6,141 grams

Target Grind Size, 80% Passing 0.045 millimeters

Agitator: 1,300 rpm

Stage	KCA Sample No.	Reagents (gms/MT)												Time (minutes)			Eh, mv (SHE)	Pulp pH
		Na2CO3		MnSO4*H2O		Cyquest 3223		Aero 6493		Aero OX 100		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t					
Grind	97728 B	0.000	0	0.000	0	0.000	0	0.000	0.0	0.000	0	0.000	0	98			+031	7.9
Con 1	97740 A	148.55	122,677	258.11	213,156	0.253	209	0.001	1.2	0.204	168	0.403	333		24	10.0	+122	6.7
Total		148.55	122,677	258.11	213,156	0.253	209	0.001	1.2	0.204	168	0.403	333	98	24	10.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97740 A	104.54	8.6	0.154	0.26	3.59	9.0	8.6	8.3	1	2	31
Tail	97740 B	1106.36	91.4	0.148	0.26	3.73	91.0	91.4	91.7	14	23	341
Head (calc)		1210.90	100.0	0.149	0.26	3.72	100.0	100.0	100.0	15	26	372
Head (direct)	97728 B			0.180	0.26	5.28						

**Table 5-9.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728 B
KCA Test No. 97743
Oxide Rougher Flotation Test**

KCA Test No:	97743	Milling % Solids:	50	Test Date:	31-Jan-25
Objective:	Oxide RO Flot	Rougher Flotation % Solids:	23	Technician:	PRR
Sample No:	97728 B			Type:	Denver
Test Water:	Reno Tap			Cell _{line} :	1,482 grams
Mill Type:	Rod mild steel			Cell + Slurry:	5,921 grams
Solids:	1,000 grams				
Solution:	1,000 grams				
Speed:	50 rpm				
Cycle:	1			Agitator:	1,300 rpm
New Feed:	1,000 grams	Target Grind Size, 80% Passing 0.045 millimeters			

Stage	KCA Sample No.	Reagents (gms/MT)										Time (minutes)			Eh, mv (SHE)	Pulp pH
		MnSO4*H2O		Cyquest 3223		Aero 6493		Aero OX 100		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t					
Grind	97728 B	0.000	0	0.000	0	0.000	0.0	0.000	0	0.000	0	98			+110	7.9
Con 1	97743 A	1.54	1,529	0.253	251	0.003	2.9	0.204	203	0.222	220		24	10.5	+107	7.5
Total		1.54	1,529	0.253	251	0.003	2.9	0.204	203	0.222	220	98	24	10.5		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97743 A	391.47	38.9	0.237	0.26	3.17	48.0	38.9	39.0	9	10	123
Tail	97743 B	615.61	61.1	0.163	0.26	3.15	52.0	61.1	61.0	10	16	193
Head (calc)		1007.08	100.0	0.192	0.26	3.16	100.0	100.0	100.0	19	26	316
Head (direct)	97728 B			0.180	0.26	5.28						

**Table 5-10.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728 B
KCA Test No. 97738
Sulfide Rougher Flotation Test**

KCA Test No:	97738	Milling % Solids:	50	Test Date:	6-Jan-25
Objective:	Side RO Flot	Rougher Flotation % Solids:	22	Technician:	PRR
Sample No:	97728 B			Type:	Denver
Test Water:	Reno Tap			Cell _{tare} :	1,482 grams
Mill Type:	Rod mild steel			Cell + Slurry:	6,000 grams
Solids:	1,000 grams				
Solution:	1,000 grams				
Speed:	50 rpm				
Cycle:	1			Agitator:	1,300 rpm
New Feed:	1,000 grams	Target Grind, 80% passing 0.045 millimeters			

Stage	KCA Sample No.	Reagents (gms/MT)						Time (minutes)			Eh, mv (SHE)	Pulp pH
		Pb(NO3)2		SIBX		Pine Oil		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t					
Grind	97728 B	0.000	0	0.000	0	0.000	0	98			-003	7.9
Con 1	97738 A	1.000	993	0.125	124	0.065	64		18	8.0	+094	7.8
Total		1.000	993	0.125	124	0.065	64	98	18	8.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97738 A	32.95	3.3	0.732	3.00	29.40	11.4	28.3	19.7	2	10	96
Tail	B	973.85	96.7	0.192	0.26	4.06	88.6	71.7	80.3	19	25	393
Head (calc)		1006.80	100.0	0.210	0.35	4.89	100.0	100.0	100.0	21	35	489
Head (direct)	97728 B			0.180	0.26	5.28						

**Table 5-11.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728 B
KCA Test No. 97736
Sulfur Roast + Sulfide Rougher Flotation Test**

KCA Test No:	97736	Milling % Solids:	50	Test Date:	9-Jan-25
Objective:	S Roast + Side RO Flot	Rougher Flotation % Solids:	22	Technician:	PRR
Sample No:	97728 B			Type:	Denver
Test Water:	Reno Tap			Cell _{tare} :	1,482 grams
Mill Type:	Rod mild steel			Cell + Slurry:	6,034 grams
Solids:	1,000 grams				
Solution:	1,000 grams				
Speed:	50 rpm				
Cycle:	1			Agitator:	1,200 rpm
New Feed:	1,000 grams	Target Grind, 80% passing 0.045 millimeters			

Stage	KCA Sample No.	Reagents (gms/MT)						Time (minutes)			Eh, mv (SHE)	Pulp pH
		Pb(NO3)2		SIBX		Pine Oil		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t					
Grind	97728 B	0.000	0	0.000	0	0.000	0	98			+079	8.1
Con 1	97736 A	1.000	997	0.125	125	0.065	64		18	10.0	+199	7.4
Total		1.000	997	0.125	125	0.065	64	98	18	10.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97736 A	337.00	33.6	0.243	0.44	21.47	33.1	46.3	76.4	8	15	722
Tail	B	665.61	66.4	0.249	0.26	3.35	66.9	53.7	23.6	17	17	222
Head (calc)		1002.61	100.0	0.247	0.32	9.44	100.0	100.0	100.0	25	32	944
Head (direct)	97728 B			0.180	0.26	5.28						

Table 5-12.
Goldstrike, Utah Project
BS-1
KCA Sample No. 97728 B
KCA Test No. 97745
Sulfide and Oxide Staged Rougher Flotation Test

KCA Test No: 97745
 Objective: Side + O'ide Stage RO Flot
 Sample No: 97728 B
 Test Water: Reno Tap
 Mill Type: Rod mild steel
 Solids: 1,000 grams
 Solution: 1,000 grams
 Speed: 50 rpm
 Cycle: 1
 New Feed: 1,000 grams

Milling % Solids: 50
 Rougher Flotation % Solids: 22

Test Date: 3-Feb-25
 Technician: PRR
 Type: Denver
 Cell_{area}: 1,482 grams
 Cell + Slurry: 6,120 grams

Target Grind, 80% passing 0.045 millimeters

Agitator: 1,200 rpm

Stage	KCA Sample No.	Reagents (gms/MT)												Time (minutes)			Eh, mv (SHE)	Pulp pH
		Pb(NO3)2		SIBX		Pine Oil		Na2SiO3		CuSO4*5H2O		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t					
Grind	97728 B	0.200	199	0.025	25	0.000	0	0.000	0	0.000	0	0.000	0	98			+263	7.8
Con 1	97745 A	0.000	0	0.025	25	0.065	64	0.000	0	0.000	0	0.000	0		8	5.0	+179	7.8
Con 2	97745 B	0.000	0	0.000	0	0.000	0	1.500	1,494	0.500	498	0.121	120		10	3.0	+239	7.6
Total		0.200	199	0.050	50	0.065	64	1.500	1,494	0.500	498	0.121	120	98	18	8.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97745 A	20.02	2.0	0.377	0.79	25.67	3.3	5.9	8.5	1	2	51
Con 2	97745 B	137.55	13.7	0.206	0.26	6.13	12.2	13.2	14.0	3	4	84
Rougher (calc)		157.57	15.7	0.227	0.32	8.61	15.5	19.0	22.5	4	5	135
Tail	97745 C	846.74	84.3	0.231	0.26	5.51	84.5	81.0	77.5	20	22	464
Head (calc)		1004.31	100.0	0.231	0.27	5.99	100.0	100.0	100.0	23	27	599
Head (direct)	97728 B			0.180	0.26	5.28						

**Table 5-13.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97729 B
KCA Test No. 97735
Oxide Rougher Flotation Test**

KCA Test No:	97735	Milling % Solids:	50	Test Date:	2-Jan-25
Objective:	Oxide RO Flot	Rougher Flotation % Solids:	22	Technician:	PRR
Sample No:	97729 B			Type:	Denver
Test Water:	Reno Tap			Cell _{tare} :	1,482 grams
Mill Type:	Rod mild steel			Cell + Slurry:	6,103 grams
Solids:	1,000 grams				
Solution:	1,000 grams				
Speed:	50 rpm				
Cycle:	1			Agitator:	1,300 rpm
New Feed:	1,000 grams	Target Grind, 80% passing 0.045 millimeters			

Stage	KCA Sample No.	Reagents (gms/MT)						Time (minutes)			Eh, mv (SHE)	Pulp pH
		Na2SiO3		CuSO4*5H2O		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t					
Grind	97729 B	0.000	0	0.000	0	0.000	0	109			-002	7.9
Con 1	97735 A	0.500	491	0.500	491	0.403	396		12	5.5	+069	7.8
Total		0.500	491	0.500	491	0.403	396	109	12	5.5		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97735 A	164.60	16.2	0.874	0.26	4.26	17.2	16.2	23.0	14	4	69
Tail	B	852.90	83.8	0.814	0.26	2.76	82.8	83.8	77.0	68	22	231
Head (calc)		1017.50	100.0	0.824	0.26	3.00	100.0	100.0	100.0	82	26	300
Head (direct)	97729 B			0.740	0.26	5.31						

**Table 5-14.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97729 B
KCA Test No. 97742
Oxide Rougher Flotation Test**

KCA Test No: 97742
Objective: Oxide RO Flot
Sample No: 97729 B
Test Water: Reno Tap
Mill Type: Rod mild steel
Solids: 1,000 grams
Solution: 1,000 grams
Speed: 50 rpm
Cycle: 1
New Feed: 1,000 grams

Milling % Solids: 50
Rougher Flotation % Solids: 23

Test Date: 26-Jan-25
Technician: PRR
Type: Denver
Cell_{area}: 1,482 grams
Cell + Slurry: 5,888 grams

Target Grind Size, 80% Passing 0.045 millimeters

Agitator: 1,300 rpm

Stage	KCA Sample No.	Reagents (gms/MT)												Time (minutes)			Eh, mv (SHE)	Pulp pH
		Na2CO3		MnSO4*H2O		Cyquest 3223		Aero 6493		Aero OX 100		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t					
Grind	97729 B	0.000	0	0.000	0	0.000	0	0.000	0.0	0.000	0	0.000	0	109			+015	8.0
Con 1	97742 A	111.000	92,358	258.110	214,762	0.253	210	0.001	1.2	0.204	170	0.363	302		24	9.0	+131	6.9
Total		111.000	92,358	258.110	214,762	0.253	210	0.001	1.2	0.204	170	0.363	302	109	24	9.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97742 A	95.65	8.0	0.559	0.26	2.76	6.6	8.0	8.5	4	2	22
Tail	97742 B	1106.19	92.0	0.684	0.26	2.59	93.4	92.0	91.5	63	24	238
Head (calc)		1201.84	100.0	0.674	0.26	2.60	100.0	100.0	100.0	67	26	260
Head (direct)	97729 B			0.740	0.26	5.31						

**Table 5-15.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97729 B
KCA Test No. 97741
Oxide Rougher Flotation Test**

KCA Test No: 97741
Objective: Oxide RO Flot
Sample No: 97729 B
Test Water: Reno Tap
Mill Type: Rod mild steel
Solids: 1,000 grams
Solution: 1,000 grams
Speed: 50 rpm
Cycle: 1
New Feed: 1,000 grams

Milling % Solids: 50
Rougher Flotation % Solids: 22

Test Date: 23-Jan-25
Technician: PRR
Type: Denver
Cell_{area}: 1,482 grams
Cell + Slurry: 5,962 grams

Target Grind Size, 80% Passing 0.045 millimeters

Agitator: 1,300 rpm

Stage	KCA Sample No.	Reagents (gms/MT)												Time (minutes)			Eh, mv (SHE)	Pulp pH
		Na2CO3		MnSO4*H2O		Cyquest 3223		Aero 6493		Aero OX 100		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t					
Grind	97729 B	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	109			-020	8.1
Con 1	97741 A	246.110	188,810	258.110	198,016	0.253	194	0.001	1	0.204	157	0.403	309		20	5.0	+005	10.5
Total		246.110	188,810	258.110	198,016	0.253	194	0.001	1	0.204	157	0.403	309	109	20	5.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97741 A	357.02	27.4	0.514	0.26	1.65	23.4	27.4	19.6	14	7	45
Tail	97741 B	946.46	72.6	0.634	0.26	2.56	76.6	72.6	80.4	46	19	186
Head (calc)		1303.48	100.0	0.601	0.26	2.31	100.0	100.0	100.0	60	26	231
Head (direct)	97729 B			0.740	0.26	5.31						

**Table 5-16.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97729 B
KCA Test No. 97744
Oxide Rougher Flotation Test**

KCA Test No:	97744	Milling % Solids:	50	Test Date:	31-Jan-25
Objective:	Oxide RO Flot	Rougher Flotation % Solids:	22	Technician:	PRR
Sample No:	97729 B			Type:	Denver
Test Water:	Reno Tap			Cell _{line} :	1,482 grams
Mill Type:	Rod mild steel			Cell + Slurry:	6,124 grams
Solids:	1,000 grams				
Solution:	1,000 grams				
Speed:	50 rpm				
Cycle:	1			Agitator:	1,300 rpm
New Feed:	1,000 grams	Target Grind Size, 80% Passing 0.045 millimeters			

Stage	KCA Sample No.	Reagents (gms/MT)										Time (minutes)			Eh, mv (SHE)	Pulp pH
		MnSO4*H2O		Cyquest 3223		Aero 6493		Aero OX 100		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t					
Grind	97729 B	0.000	0	0.000	0	0.000	0.0	0.000	0	0.000	0	109			+060	7.9
Con 1	97744 A	1.540	1,529	0.253	251	0.003	2.9	0.153	152	0.182	180		24	9.0	+462	7.3
Total		1.540	1,529	0.253	251	0.003	2.9	0.153	152	0.182	180	109	24	9.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97744 A	268.37	26.7	0.823	0.26	2.78	28.2	26.7	30.9	22	7	74
Tail	97744 B	738.55	73.3	0.761	0.26	2.26	71.8	73.3	69.1	56	19	165
Head (calc)		1006.92	100.0	0.778	0.26	2.39	100.0	100.0	100.0	78	26	239
Head (direct)	97729 B			0.740	0.26	5.31						

**Table 5-17.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97729 B
KCA Test No. 97739
Sulfide Rougher Flotation Test**

KCA Test No:	97739	Milling % Solids:	50	Test Date:	6-Jan-25
Objective:	Side RO Flot	Rougher Flotation % Solids:	22	Technician:	PRR
Sample No:	97729 B			Type:	Denver
Test Water:	Reno Tap			Cell _{tare} :	1,482 grams
Mill Type:	Rod mild steel			Cell + Slurry:	6,009 grams
Solids:	1,000 grams				
Solution:	1,000 grams				
Speed:	50 rpm				
Cycle:	1			Agitator:	1,300 rpm
New Feed:	1,000 grams	Target Grind, 80% passing 0.045 millimeters			

Stage	KCA Sample No.	Reagents (gms/MT)						Time (minutes)			Eh, mv (SHE)	Pulp pH
		Pb(NO3)2		SIBX		Pine Oil		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t					
Grind	97729 B	0.000	0	0.000	0	0.000	0	109			-015	8.0
Con 1	97739 A	1.000	986	0.125	123	0.065	64		18	7.0	+099	7.8
Total		1.000	986	0.125	123	0.065	64	109	18	7.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97739 A	29.23	2.9	1.822	1.41	23.13	5.8	14.0	19.8	5	4	67
Tail	B	985.47	97.1	0.874	0.26	2.79	94.2	86.0	80.2	85	25	270
Head (calc)		1014.70	100.0	0.902	0.29	3.37	100.0	100.0	100.0	90	29	337
Head (direct)	97729 B			0.740	0.26	5.31						

**Table 5-18.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97729 B
KCA Test No. 97737
Sulfur Roast + Sulfide Rougher Flotation Test**

KCA Test No:	97737	Milling % Solids:	50	Test Date:	8-Jan-25
Objective:	S Roast + Side RO Flot	Rougher Flotation % Solids:	22	Technician:	PRR
Sample No:	97729 B			Type:	Denver
Test Water:	Reno Tap			Cell _{tare} :	1,482 grams
Mill Type:	Rod mild steel			Cell + Slurry:	6,010 grams
Solids:	1,000 grams				
Solution:	1,000 grams				
Speed:	50 rpm				
Cycle:	1			Agitator:	1,200 rpm
New Feed:	1,000 grams	Target Grind, 80% passing 0.045 millimeters			

Stage	KCA Sample No.	Reagents (gms/MT)						Time (minutes)			Eh, mv (SHE)	Pulp pH
		Pb(NO3)2		SIBX		Pine Oil		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t					
Grind	97729 B	0.000	0	0.000	0	0.000	0	109			+070	8.5
Con 1	97737 A	1.000	985	0.125	123	0.065	64		18	8.0	+179	8.0
Total		1.000	985	0.125	123	0.065	64	109	18	8.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97737 A	195.62	19.3	0.888	0.44	13.64	20.1	28.9	51.1	17	8	263
Tail	B	819.99	80.7	0.843	0.26	3.12	79.9	71.1	48.9	68	21	252
Head (calc)		1015.61	100.0	0.852	0.29	5.15	100.0	100.0	100.0	85	29	515
Head (direct)	97729 B			0.740	0.26	5.31						

Table 5-19.
Goldstrike, Utah Project
BS-2
KCA Sample No. 97729 B
KCA Test No. 97746
Sulfide Rougher Flotation Test
Sulfide and Oxide Staged Rougher Flotation Test

KCA Test No: 97746	Milling % Solids: 50	Test Date: 3-Feb-25
Objective: Side + O'ide Stage RO Flot	Rougher Flotation % Solids: 22	Technician: PRR
Sample No: 97729 B		Type: Denver
Test Water: Reno Tap		Cell _{me} : 1,482 grams
Mill Type: Rod mild steel		Cell + Slurry: 6,043 grams
Solids: 1,000 grams		
Solution: 1,000 grams		
Speed: 50 rpm		
Cycle: 1		
New Feed: 1,000 grams	Target Grind, 80% passing 0.045 millimeters	Agitator: 1,200 rpm

Stage	KCA Sample No.	Reagents (gms/MT)												Time (minutes)			Eh, mv (SHE)	Pulp pH
		Pb(NO3)2		SIBX		Pine Oil		Na2SiO3		CuSO4*5H2O		C18H34O2		Grind	Condition	Froth		
		gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t	gm	g/t					
Grind	97729 B	0.200	197	0.025	25	0.000	0	0.000	0	0.000	0	0.000	0	109			+122	7.9
Con 1	97746 A	0.000	0	0.025	25	0.065	64	0.000	0	0.000	0	0.000	0		8	3.0	+072	8.0
Con 2	97746 B	0.000	0	0.000	0	0.000	0	1.500	1,476	0.500	492	0.121	119		10	4.0	+183	7.8
Total		0.200	197	0.050	49	0.065	64	1.500	1,476	0.500	492	0.121	119	109	18	7.0		

Product	KCA Sample No.	Weight		Assays, gms/MT or %			% Distribution			Metal Units		
		g	%	Au	Ag	Sb	Au	Ag	Sb	Au	Ag	Sb
Con 1	97746 A	8.22	0.8	--	0.99	16.22	--	3.1	3.7	--	1	13
Con 2	97746 B	75.14	7.4	0.891	0.26	5.08	7.5	7.2	10.7	7	2	38
Rougher (calc)		83.36	8.2	0.804	0.33	6.18	7.5	10.3	14.4	7	3	51
Tail	97746 C	933.01	91.8	0.891	0.26	3.27	92.5	89.7	85.6	82	24	300
Head (calc)		1016.37	100.0	0.884	0.26	3.51	100.0	100.0	100.0	88	26	351
Head (direct)	97729 B			0.740	0.26	5.31						

Note: The parting cup shattered during annealing. No gold assay is available for Con 1.

6.0 Assaying Procedures

6.1 Heads and Tails

Head assays for gold were run as one assay ton (1AT) or 50 gram fire assays by standard fire assay methods with gravimetric or flame atomic absorption spectrophotometric (FAAS) finish. Head assays for silver were run as one assay ton (1AT) or 50 gram fire assays by standard fire assay methods with gravimetric finish or through a four (4) acid digestion of a 0.25 to 0.50 gram sample with FAAS finish.

Tail assays for gold were run as one assay ton (1AT) or 50 gram fire assays by standard fire assay methods with gravimetric or flame atomic absorption spectrophotometric (FAAS) finish. Tail assays for silver were run as one assay ton (1AT) or 50 gram fire assays by standard fire assay methods with gravimetric finish or through a four (4) acid digestion of a 0.25 to 0.50 gram sample with FAAS finish.

6.2 Solution Assays

Solution assays were made by FAAS methods using certified gold and silver standards.

6.3 Multi-Element and Whole Rock Assays

Material for a multi-element analysis was digested using a four (4) acid digestion. This digestion provided a total digestion. The resulting solution was then assayed semi-quantitatively by means of a Perkin-Elmer 2000 DV ICAP-OES. The whole rock analysis was conducted using a lithium metaborate fusion followed by ICAP-OES analysis. Certified standards were utilized for both types of analyses.

6.4 Carbon and Sulfur Assays

Carbon and sulfur analyses are conducted utilizing a LECO® CS 230 carbon/sulfur with an induction furnace (approximately 1,350°C) and infrared (IR) detectors. The LECO® method consists of burning the carbon and sulfur to SO₂ and CO₂, respectively, and analyzing the off-gas in a sequential IR detector system.

The method employed by KCA to determine organic carbon is to roast a sample of the material at 510°C followed by an analysis of the roasted residue in the LECO® to determine carbon present as inorganic carbon (organic carbon having been burned off). The difference between the total carbon and the carbon present as inorganic carbon is then calculated as the organic carbon.

The method employed by KCA to determine hydrochloric acid insoluble organic carbon is to pretreat a sample of the material with hydrochloric acid followed by an analysis of the residue in the LECO® to determine carbon present as organic carbon (inorganic carbon having reacted with the acid). The difference between the total carbon and the carbon present as HCl insoluble organic carbon is then calculated as the inorganic carbon.

The method employed by KCA to determine sulfate sulfur is to roast a sample of the material at 650°C followed by an analysis of the roasted residue in the LECO® to determine sulfur present as sulfate sulfur (sulfides have been burned off). The difference between the total sulfur and the sulfur present as sulfate sulfur is then calculated as the sulfide sulfur.