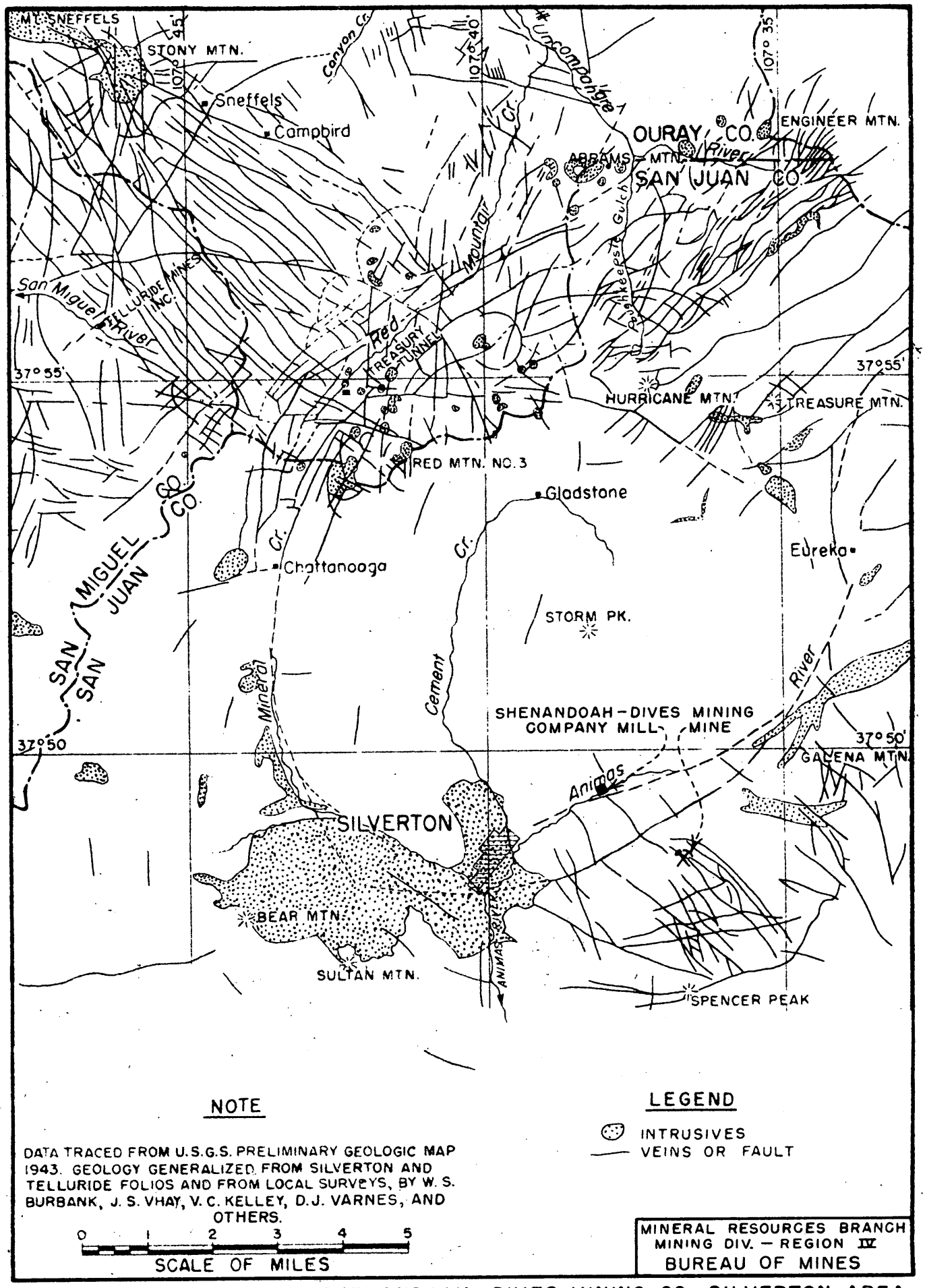

FIGURE 3 - GEOLOGIC MAP, SHENANDOAH - DIVES MINING CO., SILVERTON AREA, SAN JUAN COUNTY, COLO. (DMEA 2991)

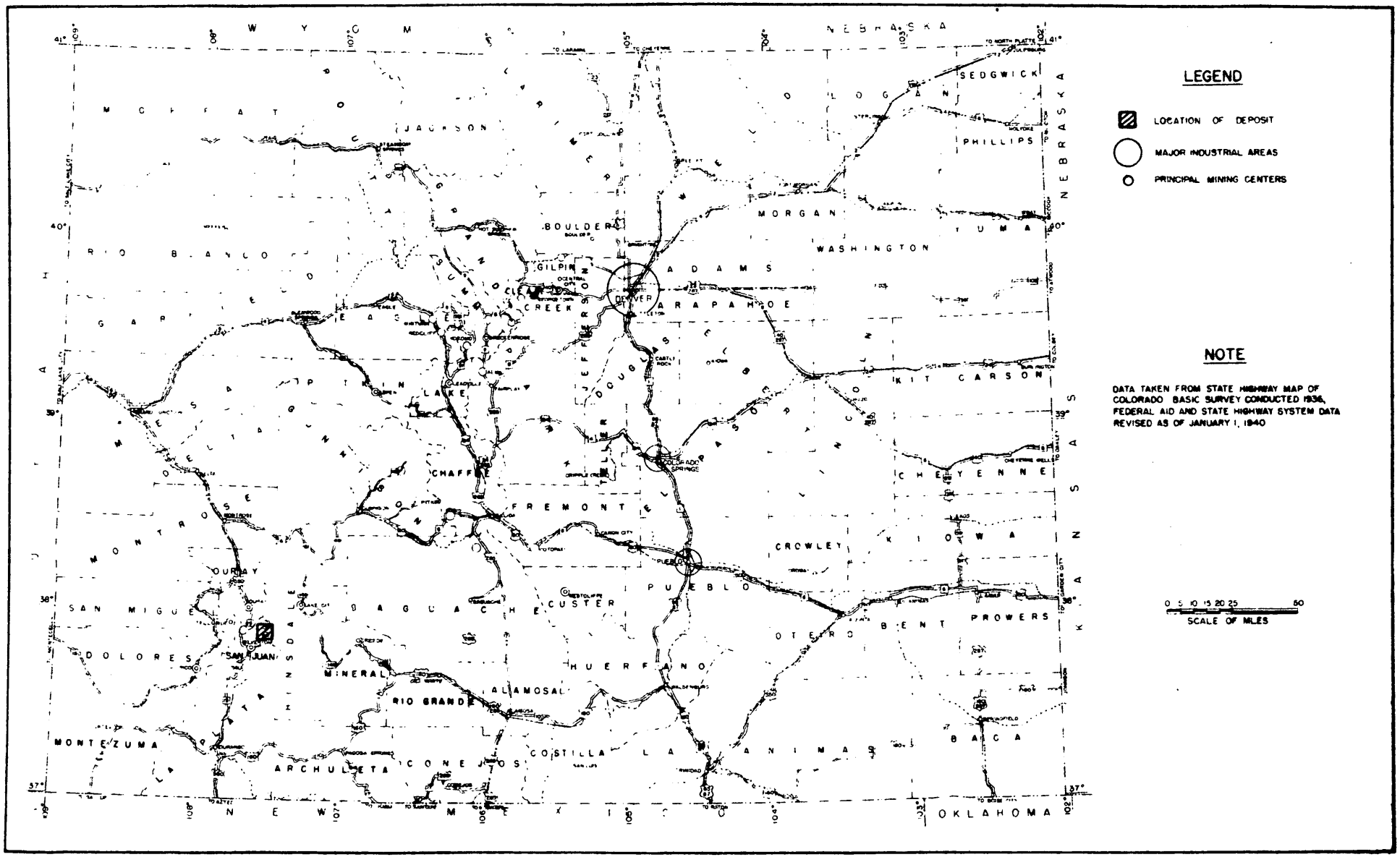

FIGURE 1. - LOCATION MAP, SHENANDOAH-DIVES MINING COMPANY, SAN JUAN COUNTY, COLO. (DMEA 2991).

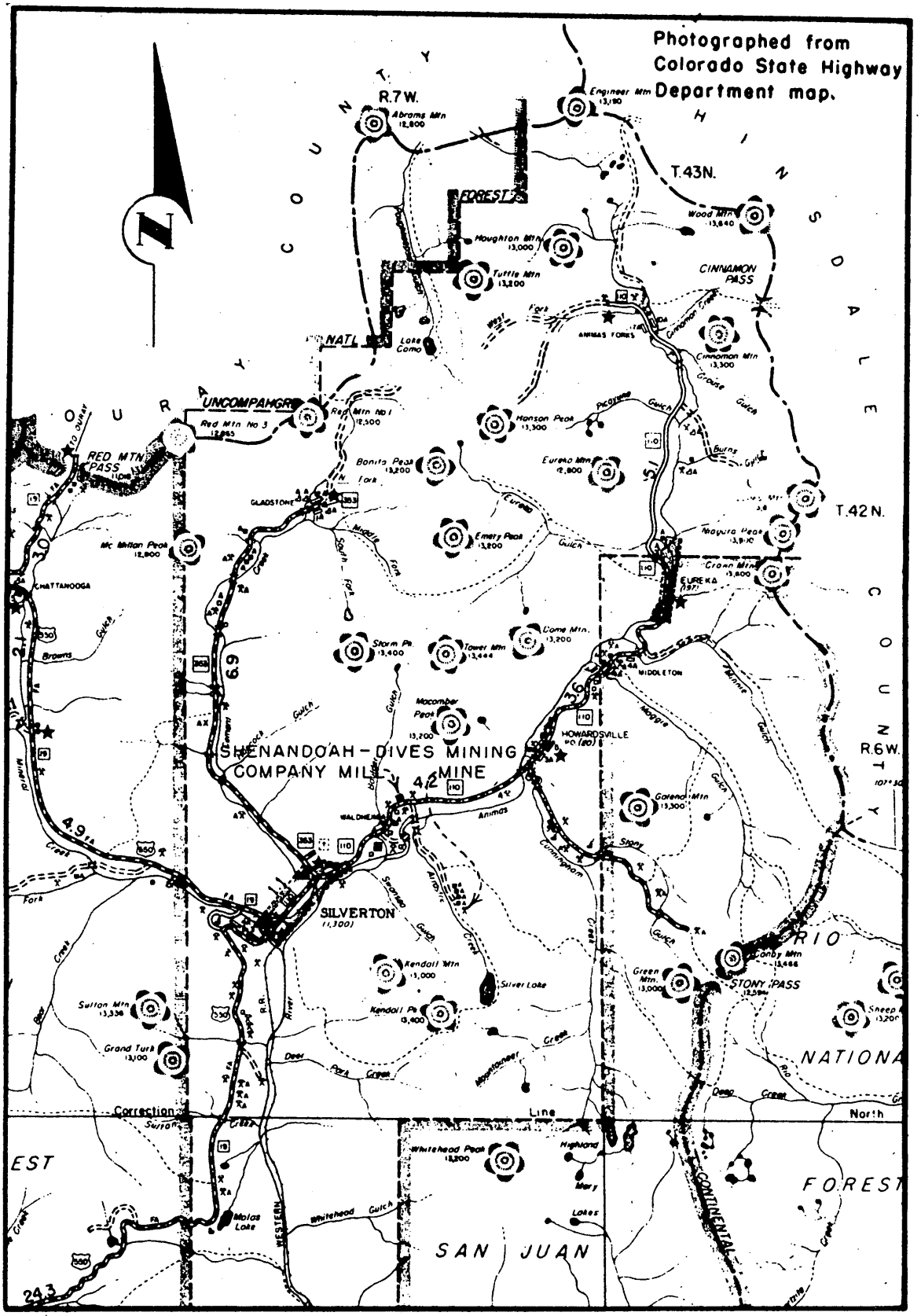

FIGURE 2 - LOCATION MAP, SHENANDOAH-DIVES MINING CO., MINE AND MILL, SILVERTON AREA, SAN JUAN COUNTY, COLO. (DMEA 2991)

rise almost vertically directly behind the mine buildings. The numerous vein outcrops are found in Silver Lake Basin, a higher valley to the south, and on the 13,000-foot peaks and ridges south of the mine.

Most of the miners live in Silverton and ride the tram back and forth to work. A boardinghouse-bunkhouse is maintained at the mine. With the aid of the tram, all-year operations are maintained, even during the most severe winters.

Electric power is obtained locally from the Western Colorado Power Company. Most mine supplies are obtained locally at Silverton or at Durango, Colo., 55 miles south of Silverton. Mine and mill equipment is available at Denver, Colo. Freight service is maintained by trucks and during the summer and part of the winter by the narrow-gauge line of the Denver and Rio Grande Western Railroad.

HISTORY AND PRODUCTION

The history of the mines of Silver Lake Basin is a story of early attempts to operate small mines on single claims in a rugged, mountain area where long and severe winters isolate the miners much of the year. Prospecting began in 1870 and most claims were located by 1876. In 1887 Edward G. Steiber consolidated a large group of claims along nearly 4 miles of the Silver Lake vein and over a mile along the Titusville - Buckeye or Letter "G" vein. He also covered portions of the Royal, Professor Steinner, and Whale - Rochester veins. This grouping was known as the Silver Lake Mines. They developed the

Silver Lake, Melville, New York, and Letter "G" veins through the Unity tunnel level, which is approximately 475 feet above the Shenandoah-Dives Mining Company's main level. The Letter "G" vein was explored and developed between 1904 and 1906, and no work was done after that time. Silver Lake Mines continued operating until 1918 or 1919. The property was later acquired by the American Smelting and Refining Company.

The property owned by the Shenandoah-Dives Mining Company represents a consolidation of the Shenandoah-Dives, North Star, and Mayflower holdings, which was effected in 1925. The company began operations shortly thereafter and in 1928 and 1929 utilized the old Iowa mill in Arrastre Basin for milling the ore. In 1930 the new mill was erected in the Animas Valley, and the ore was hauled by tram from the mine. The company was able to continue operating throughout the depression years.

In 1936 an agreement was made with the American Smelting and Refining Company to drive a 4,000-foot crosscut to open its holdings, formerly the Silver Lake mines group. The Silver Lake vein was cut at 3,220 feet, and the Melville - Royal - Black Diamond vein was cut at 4,177 feet. The American Smelting and Refining Company attempted to operate through an agreement whereby the ore was hauled, crushed, trammed, and milled for a flat rate per ton by the Shenandoah-Dives Mining Company. The system did not operate smoothly, and in 1942 the Silver Lake mines group was leased to the Shenandoah-Dives Mining Company. A new 30-year lease has been signed by both companies and is effective January 1, 1953.

Production by the Silver Lake Mines for the period of 1902 to 1918, inclusive, is listed in table 1. Production data prior to 1902 are not available, although a copy of a statement by Stoiber is submitted to show that the operation was producing about 70,000 tons of mill ore per year in 1899.

Various production records of the Shenandoah-Dives Mining Company are listed in tables 2, 3, and 4.

TABLE 1. - Production by Silver Lake Mines
(Earlier data on production not available)

Year	Tons	Gold ounces per ton	Gold total ounces	Silver ounces per ton	Silver total ounces	Lead percent	Lead tons	Copper percent	Copper tons
1902	83,496	0.161	13,470	3.20	267,574	0.922	768.822	1.068	889.548
1903	98,076	.168	16,513	4.55	446,113	1.750	1,718.473	1.003	982.532
1904	89,863	.162	14,612	6.10	548,608	2.255	2,025.787	1.130	1,016.386
1905	69,950	.112	7,817	6.23	435,397	2.995	2,095.883	1.068	746.561
1906	18,720	.100	1,874	6.17	115,809	1.770	330.763	.740	138.565
1907	52,716	.117	6,161	5.80	305,406	1.870	985.075	.982	516.907
1908	58,915	.129	7,612	4.95	291,928	1.294	762.607	.885	521.106
1909	5,301	.170	900	4.71	24,972	2.922	154.927	1.140	60.544
1910	4,540	.213	967	4.92	22,354	2.160	98.216	1.200	54.563
1911	9,381	.091	858	3.88	36,418	1.146	107.635	.602	56.456
1912	20,398	.107	2,182	4.18	84,386	1.608	327.885	.558	113.841
1913	12,179	.212	2,581	4.44	54,049	7.630	928.043	.439	53.460
1914	14,133	.227	3,207	4.73	66,927	4.240	599.235	.483	68.281
1915	29,652	.147	4,371	1.72	50,907	1.130	334.863	.408	120.934
1916	29,190	.126	3,683	1.98	57,805	1.082	315.967	.558	162.677
1917	18,069	.096	1,744	1.74	31,485	2.133	385.421	.461	83.198
1918	16,066	.083	1,340	1.77	28,425	2.035	327.125	.463	74.324
Total	630,645	0.142	89,892	4.52	2,868,563	1.94	12,266.727	0.896	5,659.883

Figures from company reports

(Data all from Bureau of Mines records)

Shenandoah-Dives Mining Company,
Silverton, Colorado

Exhibit 1

Page 2

THE MINE RECORD, PRESENTED IN THREE PERIODS: 1. Prior to Production, 1926-27; 2. Iowa Hill Operation, 1928-29; 3. Current Operation, 1930-52;

YEAR	DRIFTING Total Lin. ft.	DRIFTING Productive Lin. ft.	DRIFTING Productive Sq. ft.	DRIFTING Productive Tons	CROSSCUTTING Total Lin. ft.	CROSSCUTTING Productive Lin. ft.	CROSSCUTTING Productive Sq. ft.	CROSSCUTTING Productive Tons	RAISING Total Lin. ft.	RAISING Productive Lin. ft.	RAISING Productive Sq. ft.	RAISING Productive Tons
1926-27	3,584				505				555			
1928-29	2,860	2,314	15,459	8,928	224		210	928	1,363	863	13,349	7,414
1930	3,123	2,456	21,042	13,291	140	98	959	546	700	529	10,341	6,053
1931	4,615	4,348	34,560	23,206	899	143	346	502	1,881	1,599	26,204	15,681
1932	1,999	1,791	14,279	9,281	404	55	170	212	1,092	1,092	19,256	11,102
1933	2,532	1,687	13,333	7,443	208	66	197	214	2,004	1,182	19,219	9,799
1934	2,076	1,267	13,707	7,139	519	24	434	293	2,299	1,440	22,095	12,611
1935	3,412	3,070	37,462	20,135	27	27	217	114	794	551	17,948	9,112
1936	3,627	3,203	24,952	17,402	776	213	1,471	750	1,132	754	12,165	6,631
1937	2,422	2,329	23,235	13,675	131	49	122	156	749	521	8,507	4,531
1938	2,071	1,819	13,203	10,512	83	40	46	143	571	468	9,896	5,533
1939	1,500	1,203	11,193	6,257	153	28	201	94	666	257	9,562	5,937
1940	3,142	2,854	20,341	12,325					927	416	5,960	3,175
1941	2,872	2,675	31,360	15,[illegible]	20	20	28	44	503	503	13,488	8,950
1942	1,588	1,485	16,121	7,368	232	144	549	1,021	472	470	8,762	5,342
1943	2,497	2,438	26,179	12,291	202	159	1,047	1,129	191	191	2,954	1,403
1944	3,339	3,339	32,543	17,530								
1945	1,935	1,617	16,382	9,083					71	71	1,152	697
1946	2,681	1,725	14,419	8,419	19	19	64	100	229	152	2,644	1,414
1947	2,915	1,462	14,062	8,017	47	17	291	168	645	105	2,305	1,205
1948	1,732	1,732	17,696	10,227	1,037	1,037	9,061	5,486	859	516	9,248	4,649
1949	3,248	2,803	26,367	15,506	158	158	1,343	830	642	364	6,660	3,358
1950	1,383	1,383	12,335	8,321					24	24	423	241
1951	1,351	1,321	11,636	8,365	81	35	280	230	231	231	3,690	2,589
1952	1,597	1,335	11,261	7,753	235	255	1,808	2,118	215	215	3,487	2,154
1930-52	37,657	49,362	471,218	268,904	5,391	2,587	18,634	14,152	17,405	12,351	215,018	118,515
TOTALS	64,101	51,676	486,677	277,832	6,120	2,587	18,844	15,080	19,323	13,214	228,367	125,929

YEAR	SINKING Total Lin. ft.	SINKING Productive Lin. ft.	SINKING Productive Sq. ft.	SINKING Productive Tons	STOPING Sq. ft.	STOPING Tons	TOTAL ORE Tons	TOTAL WASTE Excavated Tons	WORK ROOMS Cu. ft.	DRILL HOLE EXPLORATION Lin. ft.
1926-27										309
1928-29					59,349	45,071	62,341	15,571	46,418	329
1930					111,415	98,484	118,376	5,459	15,300	426
1931					156,402	141,357	180,746	11,269	11,460	406
1932					167,868	161,720	183,315	5,935	4,564	
1933					235,545	167,044	184,500	18,259	15,795	1,610
1934	36	36	372	204	251,808	181,539	201,786	19,886		2,745
1935	104	194	4,629	2,785	127,295	79,163	111,313	3,261	47,788	844
1936	119	89	1,734	2,130	275,540	174,548	201,511	11,429	19,173	1,170
1937	391	96	1,369	745	239,360	171,393	190,500	8,524	21,151	867
1938	87	87	1,336	862	239,623	191,248	208,328	6,809	3,958	2,014
1939	162	85	1,468	982	187,536	129,120	141,532	9,557	41,550	1,126
1940	12				284,126	179,002	196,000	6,961	9,724	1,813
1941					343,220	208,789	228,765	1,210		1,507
1942					225,435	123,833	136,564	698	1,993	113
1943					290,300	167,888	182,711	687	8,658	286
1944					212,704	135,259	152,789	272		678
1945					228,827	136,583	146,363	1,889		882
1946					230,168	140,302	150,735	9,027	13,877	741
1947					214,217	134,016	143,406	14,210		1,212
1948					180,916	114,066	134,428	2,055		663
1949					228,518	138,077	157,771	3,819		1,673
1950					320,073	197,441	206,003			342
1951					224,661	144,204	155,388	472		705
1952					194,915	102,495	114,520	1,540		389
1930-52	941	587	10,908	7,708	5,170,472	3,418,071	3,827,350	143,228	214,981	22,212
TOTALS	941	587	10,908	7,708	5,229,821	3,463,142	3,889,691	158,799	261,399	22,850

TOTAL DEVELOPMENT & EXPLORATION

Major Openings:	Feet
Drifting,	64,100
Crosscutting,	6,120
Raising,	19,323
Sinking,	941
Totals,	90,484
Drill-Hole Explor.	22,850
All Development and exploration,	113,334

CONTRIBUTIONS OF ORE

	1928-9	1930-52	1952
Development,	27.7 %	10.7 %	10.5 %
Stoping,	72.3 %	89.3 %	89.5 %

WIDTHS OF ORE:

Development,	6.9 ft.	7.3 ft.	9.3 ft.
Stoping,	9.1 "	8.5 ft.	6.7 "
Totals,	8.5 "	8.3 "	6.9 "

RECONCILEMENT, MINE AND MILL TONNAGES:

			Tons
Ore from Mine, not excavated by Company	(Dumps, 117,238 Tons) (Fills, 80,158 ") (Other, 29,597 ")	-	226,993
Mined, as shown above,		3,889,691	
Mined, above 1900 level, omitted from the above record,		5,193	3,894,884
Total,			4,121,877
Milled, as shown,			4,184,601
Balance called for at Mine,			-62,724
Excavated reserve reported at Mine,			99,491
Not accounted for, partly dilution,			162,215

Shenandoah-Dives Mining Co.
Silverton, Colorado

SHENANDOAH-DIVES MINING COMPANY

GRADE & TONNAGE OF ORE EXCAVATED, 1942 thru 1952
FROM SHENANDOAH-DIVES, 3220, 3490 & 4177 VEINS

FINE ASSAY RECORD OF ORE EXCAVATED (NOTE: $ Value is 60% of the gross market value)

Shenandoah-Dives

Year	Tons	Au	Ag	Pb	Cu	Zn	$ Value $/Ton	$ Value Total	Au Oz.	Ag Oz.	Pb Tons	Cu Tons	Zn Tons
1942	86,441	.127	1.75	1.15	.16	--	4.63	400,107	11,109.711	153,275.79	1,000.7755	138.0945	--
1943	110,528	.170	2.17	2.64	.18	--	6.82	753,691	18,850.654	240,104.68	2,915.6923	[illegible].6629	--
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
[illegible]	107,439	.100	1.36	[illegible]	.09	--	[illegible]	449,[illegible]	10,871.210	130,281.26	[illegible]	[illegible]	--
[illegible]	127,365	.10[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1,[illegible].7776
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible],750	.06[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible],229	.04[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6,9[illegible].857	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1942 - [illegible] 609,045 Tn This Tonnage Assay For [illegible].

[illegible] Vein - Silver Lake

Year	Tons	Au	Ag	Pb	Cu	Zn	$/Ton	Total	Au Oz.	Ag Oz.	Pb Tons	Cu Tons	Zn Tons
[illegible]	[illegible]	.05[illegible]	[illegible]	[illegible]	.[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
[illegible]	22,6[illegible]	.[illegible]	[illegible].24	[illegible]	.07	--	5.03	113,993	2,083.7[illegible]	[illegible]	[illegible]	[illegible].3959	--
[illegible]													
[illegible]													
[illegible]													
[illegible]	4,[illegible]	.05[illegible]	1.[illegible]	.[illegible]	.[illegible]	[illegible]	[illegible]	[illegible]	285.167	5,[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	30,3[illegible]	.04[illegible]	1.36	[illegible]	.3[illegible]	.9[illegible]	[illegible]	15[illegible],183	1,457.0[illegible]	[illegible],569.07	[illegible]	1[illegible].3974	29[illegible]
1950	59,0[illegible]	.064	1.65	1.6[illegible]	.43	1.18	5.27	311,285	3,757.757	98,1[illegible].79	994.0[illegible]	[illegible].0937	699.6772
1951	70,871	.055	1.[illegible]	1.91	.36	.[illegible]	5.74	40[illegible].913	3,928.788	94,410.53	[illegible]	356.[illegible]013	544.7406
1952	5[illegible],447	.055	1.14	1.82	.30	.36	5.31	[illegible]10.458	[illegible],206.880	66,404.79	[illegible]	[illegible]	504.9253
	274,687	.063	1.60	1.65	[illegible]	.8[illegible]	[illegible].06	1,[illegible],716	17,429.284	43[illegible],770.23	[illegible]	[illegible].7710	2,250.4620

1947 - 1952 236,655 Tn This Tonnage Assayed for Zn

3490 Vein

Year	Tons	Au	Ag	Pb	Cu	Zn	$/Ton	Total	Au Oz.	Ag Oz.	Pb Tons	Cu Tons	Zn Tons
1942	26,473	.092	1.71	.90	.38	--	3.99	105,534	2,441.550	45,373.84	238.4640	102.0895	--
1943	16,942	.097	1.86	.60	.40	--	3.88	65,693	1,637.006	31,504.61	101.8450	67.9189	--
(Raising) 1952	867	.014	.13	.04	.02	.11	0.50	432	11.809	116.62	.3229	.2113	.9549
	44,282	.092	1.74	.77	.38	.11	3.88	171,659	4,090.364	76,995.07	340.6319	170.2197	0.9549

1952 867 Tn Assayed For Zn

 MINE ASSAY RECORD OF ORE EXCAVATED

4177 Vein

Year	Tons	Au	Ag	Pb	Cu	Zn	$ Value $/Ton	$ Value Total	Au Oz.	Ag Oz.	Pb Tons	Cu Tons	Zn Tons
1942	8,263	.091	1.94	.40	.41	—	3.71	30,671	753.466	16,028.17	33.2800	33.8295	—
1943	33,936	.055	1.87	.57	.45	—	3.05	103,496	1,871.334	63,549.64	193.1546	152.0167	—
1944	35,902	.103	3.16	1.16	.83	—	5.74	205,968	3,705.772	113,356.04	417.4910	298.0995	—
1945	36,924	.084	2.40	1.66	.88	—	5.34	197,218	3,087.600	88,736.53	613.4200	326.6645	—
1946	30,111	.081	2.71	1.37	.81	.61	5.08	151.510	2,436.631	81,735.04	413.2900	242.8465	183.2083
1947	17,015	.079	2.35	.51	.71	.29	5.36	91,194	1,345.719	40,036.45	87.4882	120.2534	49.6411
1948	2,150	.058	2.04	1.03	.27	.64	4.48	9,639	125.116	4,391.12	22.0662	5.8500	13.6666
1949	7,663	.044	1.48	1.90	.50	.87	5.46	41,829	338.416	11,307.69	145.9520	38.0794	66.9309
1950	61,519	.055	1.92	2.40	.56	.68	6.36	391,423	3,409.968	118,394.72	1,478.4895	342.2075	418.0311
1951	65,418	.048	1.76	1.90	.48	.56	6.08	397,806	3,149.995	114,941.29	1,245.7959	312.6235	367.9586
1952	53.474	.047	1.58	0.90	.41	.45	4.23	226,224	2,538.436	84,447.52	483.3284	216.9239	240.0968
	352,375	.065	2.09	1.46	.59	.56	5.24	1,846,978	22,762.453	736,924.21	5,133.7558	2,089.3944	1,339.5334

*1946 - 1952 237,350 Ton. Tonnage Assayed for Zinc

TOTAL ALL MINED

Year													
1942	136,564	.114	1.79	1.02	.26	—	4.35	598,923	15,649.315	244,447.01	1,397.7265	353.6545	—
1943	184,051	.133	2.10	1.93	.31	—	5.63	1,036,873	24,447.694	385,961.43	3,551.6770	566.9944	—
1944	152,789	.127	1.73	1.50	.21	—	5.06	772,634	19,421.143	264,984.56	2,288.0245	407.0615	—
1945	146,363	.096	1.43	1.77	.29	—	4.42	647,024	14,058.810	209,027.79	2,590.1205	421.8495	—
1946	156,476	.104	1.38	1.17	.21	.90	3.97	614,081	16,247.006	215,155.07	1,831.2035	321.8810	1,411.9859
1947	167,757	.106	1.89	1.16	.14	.55	5.34	896,094	17,851.909	316,550.21	1,953.8969	239.3633	926.1898
1948	167,888	.066	2.46	1.40	.13	.64	5.18	869,915	11,038.967	413,870.08	2,347.4487	224.8944	1,069.4577
1949	185,261	.048	2.29	1.22	.18	.64	4.55	842,881	8,794.117	424,024.16	2,268.0925	336.5395	1,193.5449
1950	217,228	.056	2.26	1.76	.33	.76	5.31	1,153,432	12,049.275	491,646.04	3,829.6287	712.1902	1,524.3371
1951	155,388	.051	1.60	2.00	.38	.67	5.98	928,463	7,920.002	247,979.34	3,115.7022	591.6726	1,038.1978
1952	114,520	.051	1.33	1.37	.34	.67	4.73	542.053	5,824.930	151,930.37	1,567.6069	390.8453	765.5792
	1,784,285	.086	1.89	1.50	.26	.68	4.99	8,902.373	153,303.168	3,365,576.06	26,741.1279	4,566.9462	7,929.2924

*1946 - 1952 1,164,515 Ton Assayed for Zinc

Metal Prices

Year	Au	Ag	Pb	Cu
1942 - 1946	$ 35	.7111	.065	.12
1947 - 1948	35	.90	.1255	.195
1949	35	.90	.131	.173
1950	35	.90	.105	.17
1951 - 1952	35	.90	.13	.20

		Tons	Au	Ag	Pb	Cu	Zn	$/ton	$	Au Oz.	Ag Oz.	Pb Ton	Cu Ton	Zn Ton
Melville Fills	1952	4,941	0.053	1.33	2.00	0.31	0.68	5.70	28,149	264.330	6,593.63	98.6070	15.2735	33.3890

Shenandoah-Dives Mining Company,
Silverton, Colorado

Letter to J. W. O. — A SUMMARY OF PRODUCTION — Exhibit #2 Page 3

YEAR	TONS ORE	GROSS VALUE Total	GROSS VALUE Per Ton	CONCENTRATE MADE Total	CONCENTRATE MADE Per Ton	PREMIUMS Total	PREMIUMS Per Ton	NET RETURNS Total	FROM SMELTER Per Ton	FROM SMELTER Per Cent
1928-29 (Iowa Mill)	47,810	$ 654,327.86	$ 13.69	$ 570,599.90	$ 11.93	(Included in Net Return)		$ 386,330.32	$ 8.08	59.0
1930-39	1,804,678	10,775,614.16	5.91	9,104,343.63	4.99			6,767,509.20	3.71	62.8
1940	212,891	1,528,736.16	7.18	1,242,414.30	5.83			824,138.70	3.87	53.9
1941	231,519	1,465,394.43	6.33	1,208,965.80	5.22			854,145.96	3.69	58.3
1942	168,772	1,270,491.57	7.53	983,280.91	5.83	53,180.50	.32	806,133.19	4.78	63.4
1943	156,763	1,232,750.65	7.86	968,068.48	6.17	79,619.39	.51	843,511.38	5.38	68.4
1944	142,635	1,598,838.08	11.21	1,216,136.34	8.53	56,606.93	.40	1,031,359.26	7.23	64.5
1945	152,084	1,372,708.76	9.03	1,032,479.96	6.79	55,477.00	.36	826,524.18	5.43	60.2
1946	175,121	1,232,831.40	7.04	952,088.02	5.44	176,441.27	1.01	867,015.24	4.95	70.3
1947	172,125	1,544,970.95	8.97	1,169,256.74	6.79	69,193.20	.40	979,498.57	5.69	63.4
1948	165,293	1,604,822.08	9.71	1,262,914.97	7.64			1,044,812.82	6.32	65.1
1949	186,078	1,591,308.39	8.55	1,326,975.39	7.13			1,011,397.92	5.44	63.5
1950	202,947	1,864,765.23	9.18	1,558,890.98	7.68			1,142,898.11	5.63	61.3
1951	196,097	2,286,446.57	11.66	2,029,599.84	10.35			1,448,120.82	7.38	63.3
1952	149,804	1,841,771.91	12.29	1,655,434.09	11.05			1,108,441.17	7.40	60.2
TOTALS	4,184,080	$ 31,865,778.20	$ 7.62	$ 26,281,449.35	$ 6.28	$ 490,518.29		$ 19,941,836.84	$ 4.77	62.6

METALS IN CONCENTRATES

YEAR	GOLD Ounces	GOLD Price	GOLD Value	SILVER Ounces	SILVER Price	SILVER Value	LEAD Pounds	LEAD Price	LEAD Value	COPPER Pounds	COPPER Price	COPPER Value	ZINC Pounds	ZINC Price	ZINC Value	TOTAL VALUE
1928-29 (Iowa Mill)	11,585.770	$ 20.58	$ 238,456.18	191,274.43	$ .544	$ 104,108.98	952,624	$ .065	$ 62,332.23	981,[illegible]	$ [illegible]	$ [illegible]				$ 570,599.90
1930-39	199,056.106	28.49	5,670,306.97	3,084,109.91	.517	1,595,453.40	13,436,627	.045	608,021.15	12,410,157	.089	1,110,065.00	2,319,833 (3 yrs.)		120,497.11 (3 yrs.)	9,104,343.63
1940	14,544.448	35.00	509,055.63	248,160.53	.711	176,466.92	4,431,878	.052	230,188.89	795,361	.115	91,063.78	3,751,008	.063	235,019.08	1,242,414.30
1941	14,973.950	"	524,088.22	315,746.67	.711	224,527.44	3,333,159	.058	193,460.03	911,041	.120	109,528.47	2,104,234	.075	157,351.54	1,208,965.80
1942	14,850.009	"	519,750.26	256,596.15	.711	182,465.51	2,191,933	.065	142,475.65	569,821	.120	68,378.52	851,042	.0825	70,210.97	983,280.91
1943	17,526.008	"	613,410.25	164,250.88	.711	116,798.77	1,848,251	.065	120,136.40	429,837	.120	51,580.44	801,729	.0825	66,142.62	968,068.48
1944	24,469.580	"	856,435.21	127,980.27	.711	91,006.74	2,195,567	.065	142,711.81	326,270	.120	39,152.40	[illegible]	.0825	86,820.19	1,216,136.34
1945	17,238.189	"	603,336.59	142,967.86	.711	101,664.39	2,258,893	.065	146,828.02	404,047	.120	48,485.64	1,602,004	.0825	132,165.32	1,032,479.96
1946	11,940.788	"	417,927.56	131,095.12	.886	116,204.44	2,234,240	.094	210,125.36	406,885	.150	60,984.48	1,666,754	.0881	146,846.18	952,088.02
1947	15,534.645	"	543,711.90	167,233.18	.900	150,509.85	1,880,507	.147	277,247.64	274,864	.213	58,410.23	1,327,400	.1050	139,377.12	1,169,256.74
1948	11,241.154	"	393,440.31	302,685.57	.900	272,416.98	2,198,225	.183	402,796.01	336,966	.225	75,694.58	829,017	.1430	118,567.09	1,262,914.97
1949	8,820.227	"	308,707.95	417,087.78	.900	375,378.98	2,866,742	.150	430,114.02	415,345	.187	77,832.34	1,152,109	.1171	134,942.10	1,326,975.39
1950	10,424.341	"	364,851.95	408,819.86	.900	367,937.84	3,284,666	.134	441,756.82	658,476	.219	144,592.21	1,731,943	.1384	239,752.16	1,558,890.98
1951	8,232.101	"	288,123.53	325,522.37	.901	293,343.47	4,920,379	.175	861,088.17	1,046,216	.245	256,322.57	1,838,877	.1799	330,722.10	2,029,599.84
1952	6,390.212	"	223,657.37	224,621.68	.900	202,159.49	4,453,476	.163	724,346.76	1,062,855	.245	260,399.44	1,521,520	.1608	244,871.03	1,655,434.09
TOTALS	389,019.768		$12,075,259.88	6,508,152.26		$4,370,443.20	52,487,167		$4,993,628.96	[illegible]		$ 2,618,822.61	22,544,957		$2,223,294.70	$ 26,281,449.35

OWNERSHIP AND EXTENT

Claims upon which the exploration will be performed are owned by the American Smelting and Refining Company, 600 Pacific National Life Building, Salt Lake City 1, Utah. The group of claims is known as the Silver Lake mines. Shenandoah-Dives Mining Company has a 30-year lease, beginning on January 1, 1953, on the entire group of nearly 200 claims. All taxes are paid up-to-date by Shenandoah-Dives Mining Company. A complete list of the claims is given in table 5.

The American Smelting and Refining Company has been notified concerning the application for an exploration loan, and it is expected that the company will sign the "Owner's Consent to Lien," form MF-103. Both parties to the lease have outstanding development "losses" which are specifically allowed for on a repayment schedule in the lease. All allowable mining and milling costs are specifically enumerated in the lease, and division of profits is detailed. It may be necessary for the participants to amend the lease to recognize the Government royalties as a cost of operation and an allowable lien against the property.

Shortly after the point of beginning, the exploration drift or crosscut will cross a small fraction of "open" ground. This is between the Elk and American Bay claims at coordinate 27 (fig. 4). San Juan County records show this ground as open and not covered by located or patented claim. The American Smelting and Refining Company has verbally agreed to have this area covered by location as soon as the snow melts and the spot is accessible.

EXHIBIT "A"

Claim	Survey No.	Claim	Survey No.
Arabian Boy	6994	Pyramid #3	14220
Badger	11448-A	Pyramid #2	14220
Barbadoes	14036	Pyramid	2461
Bear	280	Rivington Street	9003-A
Buckeye	232	Rochester	4764
Buckeye #2	7896	Round Mountain	5110-A
Carolina	5569-A	Royal	6198-A
Dandy	7896-Am	Royal Tiger #1	769
Ewa	238	Sedalia	14029
Ewa	14038	Seymour	96
Eckley Cox	14066	Silver Lake	2164-A
Essex Street	9106-A	Silver Lake Spur	6994
Freiburg	14047	Smuggler	14029
Galena	11448-A	Smyrna	12122-A
General Hale	14066	Solstice	5571
General Merritt	14030	Tiger Extension #2	14036
General Miles	14066	Titusville	403
Gretchen	2163-A	Unity	9120
Happy Jack	8492	Whale	4764
Home Stake	5471	Adams Placer	15143
Jaffa	12122-A	Alexandria	14024-A
Jamaica	14033	Algiers	11469
Joslo	14163	Ann Harris Placer	11596
Jupiter	14066	Argentine Lode	11380-A
Kingstore	14035	Argentine Mill Site	11380-B
Lake View	14035	Blair Mt. Lode	13322-A
Last Chance	11448-A	Blair Mt. Mill Site	13322-B
Last Chance	7896 Am	Blair Mt. Placer	16469
Lena Allen	7802	Blair Placer	841
Leucostiote	5570	Big Giant Extension Lode	14320
Lowville	5529	Big Giant Lode	1156-A
Magnala	14035	Bowery Lode	155
Manilla	14030	Cairo Lode	11469
Martha V.F.	4952	Carolina Mill Site	5569-B
Maxwell	5530-A	Coin Lode	13322-A
Monte Carlo	14035	Combination Lode	16476
Maples	14035	Contention Lode	14320
Nevada	8530-A	Contra Costa Lode	2329
Nevada Extension	8497	Cremorne Lode	827
New York City	9104	Dana Lode	13322-A
Panuco	7896 Am	Desmosthenes	14196
Pompeii	404	Dick Bland Lode	13322-A
Porto Rico	14035	Dollie Blight	12671
Professor Neisback	11469	Dolly Varden #2 Lode	2616
Professor Newberry	14046	Dreadnaught	14320
Professor Percy	14066	Ellida	16476
Professor Stalmer	7568	El Paso Lode	9842-A
Professor Wedding	11469	Whale M.S.	9106-B
Professor Zeuner	11469	Esther Allen Lode	8801

Exhibit "A" (Cont.) Page 2.

Claim	Survey No.	Claim	Survey No.
Extension and Combination of Dolly Varden No. 2 and Ethan Allen	2617	Rochester Mill Site	8592
First Chance Lode	13322-A	Sal Custer Lode	1849
Free Coinage Lode	9903	Scranton City #2 Lode	16476
Frithoft	16476	Scranton City Lode	15426
General Garfield Lode	828	Silver Star Lode	681
General Grant Lode	13322-A	Smyrna Mill Site	12122-B
General Hallack Lode	14047	Snow Shed Lode	14027
General Logan Lode	13322-A	Southside Lode	14012
General Sherman Lode	13322-A	Spring Lode	14012
Genoa Lode	14024	Tarpon Lode	15122
George Hesse Lode	9852	Trail Lode	13322-A
Golden Fleece Lode	11714	Twentieth Century	16476
Grey Eagle 1/4 of	16860 1/4 of	Vienna Placer	14057
Growler	16476	Von Cotta Lode	14052
Helena Roux Lode	9852	Iowa	480
Illinois Lode	14019	J. W. Collins	6561
Independence	16476	Black Diamond	4811
Iron Mask Lode	11148	Cub)	12193
Jeanette Roux Placer	11596	Last Chance)	
J. E. Ward Mill Site	9858	Club	12978
Jerusalem	14012	Grip	6647
Jess Lode 1/2 of	9426 1/2 of	Elk	12977
Jura Lode	2388	Lakeside	12818
King Solomon Lode	409	Molville	12353
Last Chance Lode	9284	1/2 Diamond L.	561-A
La Veta Lode	14047	Royal Tiger	48
Layner Lode	14324	Stag	6646
Lightening Attracting	16476	White Diamond	13011
Little Gertie Lode	15122	Dump	9843-A Am
Lowville Mill Site	5529-B	Lake Shore	13064
Manhattan Lode	13322-A	Key	13065
Marcia L. Lode	8801-A	Hillside)	
Marcia L. Mill Site	8801-B	Exploit)	12946
Maxwell Mill Site	5530-B	Galicya Boy	13139
M. D. Thatcher Placer	17699	Dump Mill Site	9843-B
Mountain Queen Lode	2389	Iowa Mill Site	9837
North Star Ext. Lode	7772	Tiger Mill Site	13749
Panic Lode	13322-A	2/3 American Boy	7244
Perhaps Lode	16476	Aspen	199
Potomac Lode	457	Chloride	411
Professor Chandler Lode	14047	Legal Tender	753
Professor Richter Lode	14028	Mammoth	499
Professor Winkler Lode	9842-A	McGregor	423
Professor Winkler Mill Site	9842-B	Susquehanna	447
Republic Lode	1158	Ruby Placer #1	654
Riverside Lode	8801	Ruby Placer #2	655
Rochester	4764	Mill Site #1	424
		Mill Site #2	425
		La Boca	19479

MARCH 1954

Shenandoah-Dives Mining Company
Silverton, Colorado

DMEA 2991
LDM-L 558

March, Drifting	273.0 ft.
[illegible]	[illegible] ft.
Total advance to date	2,310.5 ft.

7896 AD

11169

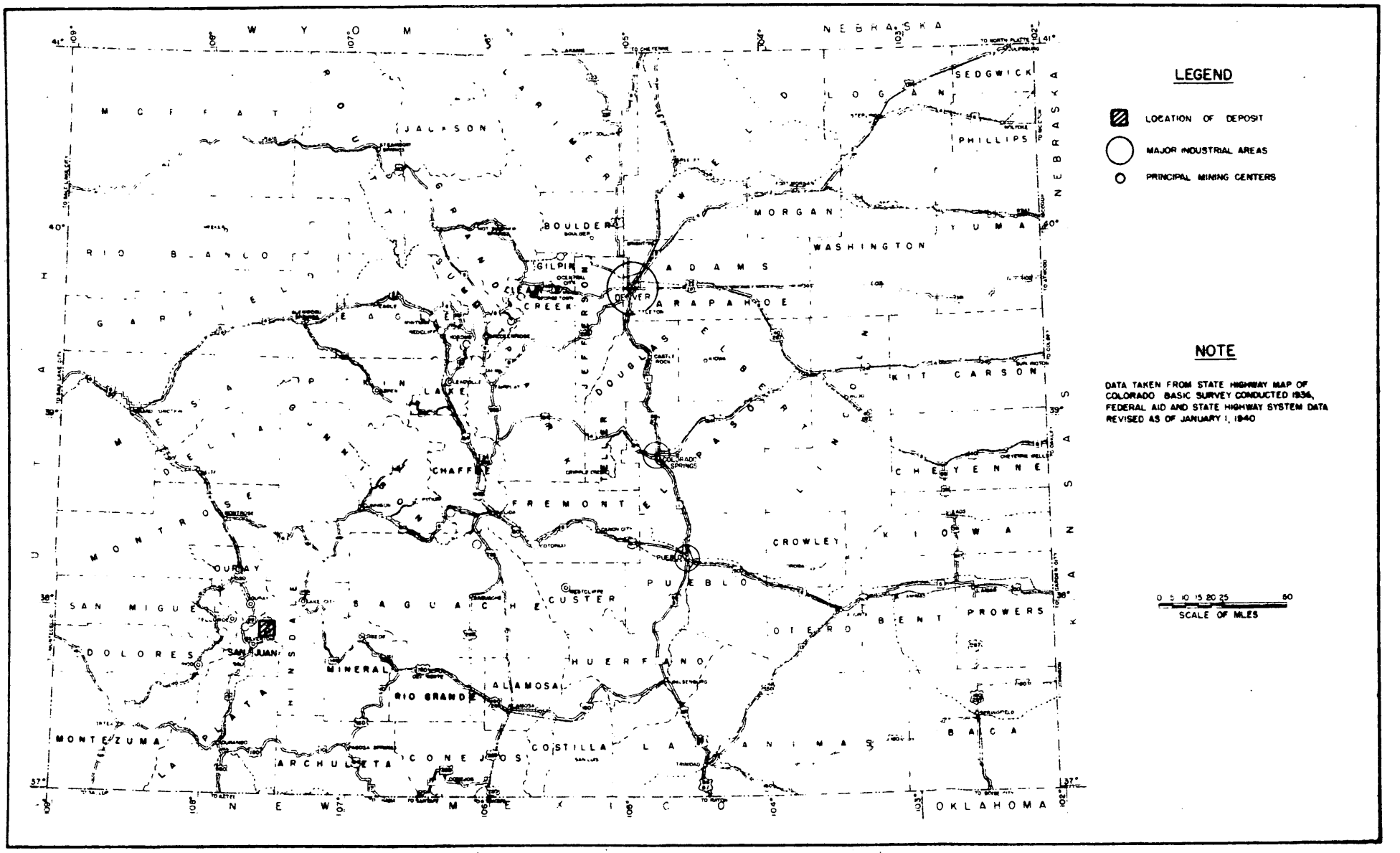


FIGURE 1. - LOCATION MAP, SHENANDOAH-DIVES MINING COMPANY, SAN JUAN COUNTY, COLO. (DMEA 2991).

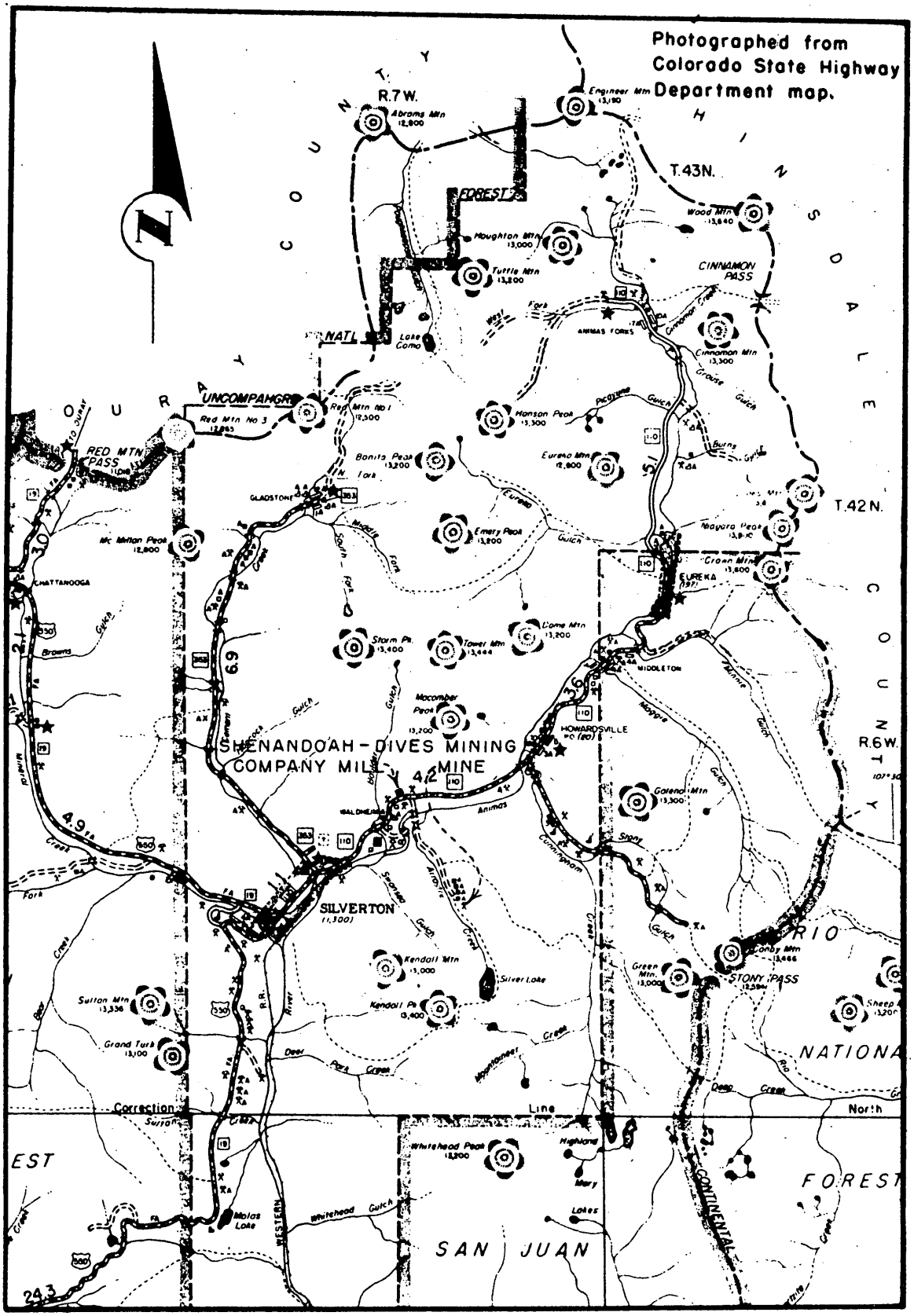


FIGURE 2 - LOCATION MAP, SHENANDOAH-DIVES MINING CO., MINE AND MILL, SILVERTON AREA, SAN JUAN COUNTY, COLO. (DMEA 2991)

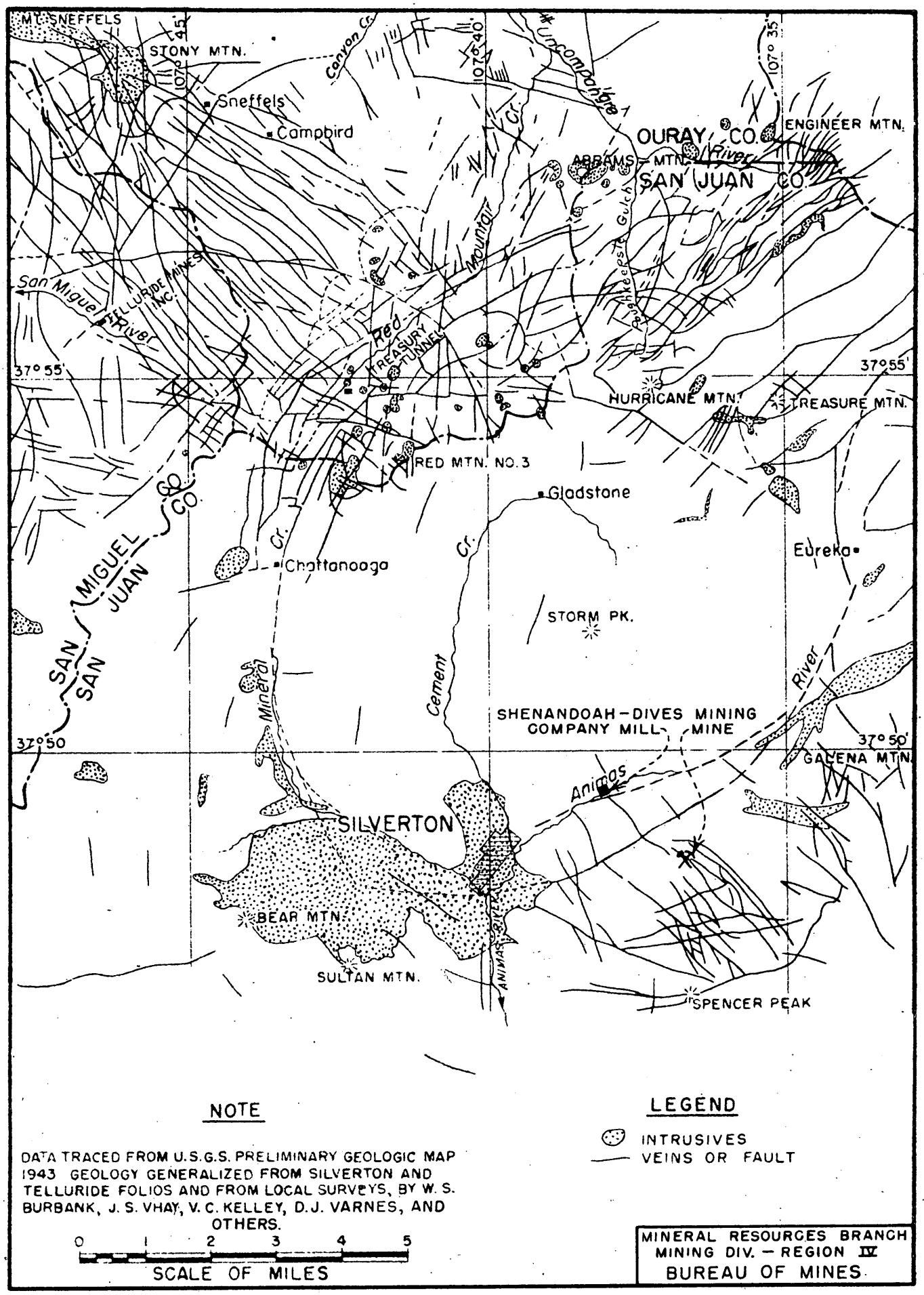


FIGURE 3 - GEOLOGIC MAP, SHENANDOAH-DIVES MINING CO., SILVERTON AREA, SAN JUAN COUNTY, COLO. (DMEA 2991)

EXHIBIT "A"

Claim	Survey No.	Claim	Survey No.
Arabian Boy	6994	Pyramid #3	14220
Badger	11448-A	Pyramid #2	14220
Barbedoes	14036	Pyramid	2461
Bear	280	Rivington Street	9003-A
Buckeye	232	Rochester	4764
Buckeye #2	7896	Round Mountain	5110-A
Carolina	5569-A	Royal	6198-A
Dandy	7896-Am	Royal Tiger #1	769
Emma	238	Sedalia	14029
Emma	14036	Seymour	96
Ezekiey Cox	14066	Silver Lake	2164-A
Essex Street	9106-A	Silver Lake Spur	6994
Freiburg	14047	Smuggler	14029
Galena	11448-A	Smyrna	12122-A
General Hale	14066	Solstice	5571
General Merritt	14030	Tiger Extension #2	14036
General Miles	14066	Titusville	403
Gretchen	2163-A	Unity	9120
Happy Jack	8492	Whale	4764
Home Stake	5471	Adams Placer	15143
Jaffa	12122-A	Alexandria	14024-A
Jamaica	14035	Algiers	11469
Jocko	14168	Ann Harris Placer	11596
Jupitor	14066	Argentine Lode	11380-A
Kingston	14035	Argentine Mill Site	11380-B
Lake View	14035	Blair Mt. Lode	13322-A
Last Chance	11448-A	Blair Mt. Mill Site	13322-B
Last Chance	7896 Am	Blair Mt. Placer	16469
Lena Allen	7802	Blair Placer	841
Lencostiote	5570	Big Giant Extension Lode	14320
Lowville	5529	Big Giant Lode	1156-A
Magnala	14035	Bowery Lode	155
Manilla	14030	Cairo Lode	11469
Martha V.F.	4952	Carolina Mill Site	5569-B
Maxwell	5530-A	Coin Lode	13322-A
Monte Carlo	14035	Combination Lode	16476
Naples	14035	Contention Lode	14320
Nevada	8530-A	Contra Costa Lode	2329
Nevada Extension	8497	Cremorne Lode	827
New York City	9104	Dana Lode	13322-A
Pannoo	7896 Am	Desmosthanes	14196
Pompeii	404	Dick Bland Lode	13322-A
Porto Rico	14035	Dollie Blight	12671
Professor Neidhack	11469	Dolly Varden #2 Lode	2616
Professor Newberry	14046	Dreadnaught	14320
Professor Percy	14066	Ellida	16476
Professor Stalmer	7568	El Paso Lode	9842-A
Professor Wedding	11469	Whale M.S.	9106-B
Professor Zenner	11469	Esther Allen Lode	8801

Exhibit "A" (Cont.)

Claim	Survey No.	Claim	Survey No.
Extension and Combination of Dolly Varden No. 2 and		Rochester Mill Site	8592
Ethan Allen	2617	Sal Custer Lode	1849
First Chance Lode	13322-A	Scranton City #2 Lode	16476
Free Coinage Lode	9903	Scranton City Lode	15426
Frithoft	16476	Silver Star Lode	681
General Garfield Lode	828	Smyrna Mill Site	12122-B
General Grant Lode	13322-A	Snow Shed Lode	14027
General Hallack Lode	14047	Southside Lode	14012
General Logan Lode	13322-A	Spring Lode	14012
General Sherman Lode	13322-A	Tarpon Lode	15122
Genoa Lode	14024	Trail Lode	13322-A
George Hesse Lode	9852	Twentieth Century	16476
Golden Fleece Lode	11714	Vienna Placer	14057
Grey Eagle 1/4 of	16860 1/4 of	Von Cotta Lode	14052
Growler	16476	Iowa	480
Helena Roux Lode	9852	J. W. Collins	6561
Illinois Lode	14019	Black Diamond	4811
Independence	16476	Cub)	12193
Iron Mask Lode	11148	Last Chance)	
Jeanette Roux Placer	11596	Club	12978
J. E. Ward Mill Site	9858	Grip	6647
Jerusalem	14012	Elk	12977
Jess Lode 1/2 of	9426 1/2 of	Lakeside	12813
Jura Lode	2388	Melville	12353
King Solomon Lode	409	1/2 Diamond L.	561-A
Last Chance Lode	9284	Royal Tiger	48
La Veta Lode	14047	Stag	6646
Leyner Lode	14324	White Diamond	13011
Lightening Attracting	16476	Dump	9843-A Am
Little Gertie Lode	15122	Lake Shore	13064
Lowville Mill Site	5529-B	Key	13065
Manhattan Lode	13322-A	Hillside)	
Marcia L. Lode	8801-A	Exploit)	12946
Marcia L. Mill Site	8801-B	Galicya Boy	13139
Maxwell Mill Site	5530-B	Dump Mill Site	9843-B
M. D. Thatcher Placer	17699	Iowa Mill Site	9837
Mountain Queen Lode	2389	Tiger Mill Site	13749
North Star Ext. Lode	7772	2/3 American Boy	7244
Panic Lode	13322-A	Aspen	199
Perhaps Lode	16476	Chloride	411
Potomac Lode	457	Legal Tender	753
Professor Chandler Lode	14047	Mammoth	499
Professor Richter Lode	14028	McGregor	423
Professor Winkler Lode	9842-A	Susquehanna	447
Professor Winkler Mill Site	9842-B	Ruby Placer #1	654
Republic Lode	1158	Ruby Placer #2	655
Riverside Lode	8801	Mill Site #1	424
Rochester	4764	Mill Site #2	425
		La Boca	19479

Letter to J. W. O.

Shenandoah-Dives Mining Company.
Silverton, Colorado

A SUMMARY OF PRODUCTION

Exhibit #2 Page 3

YEAR	TONS ORE	GROSS VALUE Total	GROSS VALUE Per Ton	CONCENTRATE MADE Total	CONCENTRATE MADE Per Ton	PREMIUMS Total	PREMIUMS Per Ton	NET RETURNS Total	FROM SMELTER Per Ton	FROM SMELTER Per Cent
1928-29 (Iowa Mill)	47,810	$ 654,327.86	$ 13.69	$ 570,599.90	$ 11.93	(Included in Net Return)		$ 386,330.32	$ 8.08	59.0
1930-39	1,824,678	10,775,614.16	5.91	9,104,343.63	4.99			6,767,509.20	3.71	62.8
1940	212,891	1,528,736 16	7.18	1,242,414.30	5.83			824,138.70	3.87	53.9
1941	231,519	1,465,394.43	6.33	1,208,965.80	5.22			854,145.96	3.69	58.3
1942	168,772	1,270,491.57	7.53	983,280.91	5.83	53,180.50	.32	806,133.19	4.78	63.4
1943	156,763	1,232,750.65	7.86	968,068.48	6.17	79,619.39	.51	843,511.38	5.38	68.4
1944	142,635	1,598,838.08	11.21	1,216,136.34	8.53	56,606.93	.40	1,031,359.26	7.23	64.5
1945	152,084	1,372,708.76	9.03	1,032,479.96	6.79	55,477.00	.36	826,524.18	5.43	60.2
1946	175,121	1,232,831.40	7.04	952,088.02	5.44	176,441.27	1.01	867,015.24	4.95	70.3
1947	172,125	1,544,970.95	8.97	1,169,256.74	6.79	69,193.20	.40	979,498.57	5.69	63.4
1948	165,283	1,604,822.08	9.71	1,262,914.97	7.64			1,044,812.82	6.32	65.1
1949	186,072	1,591,308.39	8.55	1,326,975.39	7.13			1,011,397.92	5.44	63.5
1950	202,947	1,864,765.23	9.18	1,558,890.98	7.68			1,142,898.11	5.63	61.3
1951	196,097	2,286,446.57	11.66	2,029,599.84	10.35			1,448,120.82	7.38	63.3
1952	149,804	1,841,771.91	12.29	1,655,434.09	11.05			1,108,441.17	7.40	60.2
TOTALS	4,184,800	$ 31,865,778.20	$ 7.62	$ 26,281,449.35	$ 6.28	$ 490,518.29		$ 19,941,836.84	$ 4.77	62.6

METALS IN CONCENTRATES

YEAR	GOLD Ounces	GOLD Price	GOLD Value	SILVER Ounces	SILVER Price	SILVER Value	LEAD Pounds	LEAD Price	LEAD Value	COPPER Pounds	COPPER Price	COPPER Value	ZINC Pounds	ZINC Price	ZINC Value	TOTAL VALUE
1928-29 (Iowa Mill)	11,585.770	$ 20.58	$ 238,456.18	191,274.43	$ .544	$ 104,108.98	952,624	$ .065	$ 62,332.23	951,750	[illegible]	[illegible]				$ 570,599.90
1930-39	199,056.106	28.49	5,670,306.97	3,084,109.91	.517	1,595,453.40	13,436,627	.045	608,021.15	12,410,157	.089	1,110,063.00	2,312,833 (3 yrs.)		120,497.11 (3 yrs.)	9,104,343.63
1940	14,544.448	35.00	509,055.63	248,160.53	.711	176,466.92	4,431,878	.052	230,188.89	795,861	.115	91,663.76	3,752,008	.063	235,019.08	1,242,414.30
1941	14,973.950	"	524,088.22	315,746.67	.711	224,527.44	3,333,159	.058	193,460.03	911,041	120	109,538.47	2,134,234	.075	157,351.64	1,208,965.80
1942	14,850.009	"	519,750.26	256,596.15	.711	182,465.51	2,191,933	.065	142,475.65	569,821	.120	68,378.52	851,042	.0825	70,210.97	983,280.91
1943	17,526.008	"	613,410.25	164,250.88	.711	116,798.77	1,848,251	.065	120,136.40	429,837	.120	51,580.44	801,729	.0825	66,142.62	968,068.48
1944	24,469.580	"	856,435.21	127,980.27	.711	91,006.74	2,195,567	.065	142,711.81	386,270	.120	46,352.40	[illegible]	.0825	96,830.13	1,216,136.34
1945	17,238.189	"	603,336.59	142,967.86	.711	101,664.39	2,258,893	.065	146,828.02	404,047	.120	48,485.64	1,602,004	.0825	132,165.32	1,032,479.96
1946	11,940.788	"	417,927.56	131,095.12	.886	116,204.44	2,234,240	.094	210,125.36	406,885	.150	60,984.48	1,666,754	.0881	146,846.18	952,088.02
1947	15,534.645	"	543,711.90	167,233.18	.900	150,509.85	1,880,507	.147	277,247.64	274,864	.213	58,410.23	1,327,400	.1050	139,377.12	1,169,256.74
1948	11,241.154	"	393,440.31	302,685.57	.900	272,416.98	2,198,225	.183	402,796.01	336,966	.225	75,694.58	829,017	.1430	118,567.09	1,262,914.97
1949	8,820.227	"	308,707.95	417,087.78	.900	375,378.98	2,866,742	.150	430,114.02	415,345	.187	77,832.34	1,152,109	.1171	134,942.10	1,326,975.39
1950	10,424.341	"	364,851.95	408,819.86	.900	367,937.84	3,284,666	.134	441,756.82	658,476	.219	144,592.21	1,731,943	.1384	239,752.16	1,558,890.98
1951	8,232.101	"	288,123.53	325,522.37	.901	293,343.47	4,920,379	.175	861,088.17	1,046,916	.245	256,322.57	1,838,877	.1799	330,722.10	2,029,599.84
1952	6,390.212	"	223,657.37	224,621.68	.900	202,159.49	4,453,476	.163	724,346.76	1,062,855	.245	260,399.44	1,523,520	.1508	244,871.03	1,655,434.09
TOTALS	389,019.768		$12,075,259.88	6,508,152.26		$4,370,443.20	52,487,167		$4,993,628.96	[illegible]		$ 2,618,822.61	22,544,957		$2,223,294.70	$ 26,281,449.35

MINE ASSAY RECORD OF ORE EXCAVATED

4177 Vein

Year	Tons	Au	Ag	Pb	Cu	Zn	$ Value $/Ton	$ Value Total	Au Oz.	Ag Oz.	Pb Tons	Cu Tons	Zn Tons
1942	8,263	.091	1.94	.40	.41	—	3.71	30,671	753.466	16,028.17	33.2800	33.8295	—
1943	33,936	.055	1.87	.57	.45	—	3.05	103,496	1,871.334	63,549.64	193.1546	152.0167	—
1944	35,902	.103	3.16	1.16	.83	—	5.74	205,968	3,705.772	113,356.04	417.4910	298.0995	—
1945	36,924	.084	2.40	1.66	.88	—	5.34	197,218	3,087.600	88,736.53	613.4200	326.6645	—
1946	30,111	.081	2.71	1.37	.81	.61	5.08	151.510	2,436.631	81,735.04	413.2900	242.8465	183.2083
1947	17,015	.079	2.35	.51	.71	.29	5.36	91,194	1,345.719	40,036.45	87.4882	120.2534	49.6411
1948	2,150	.058	2.04	1.03	.27	.64	4.48	9,639	125.116	4,391.12	22.0662	5.8500	13.6666
1949	7,663	.044	1.48	1.90	.50	.87	5.46	41,829	338.416	11,307.69	145.9520	38.0794	66.9309
1950	61,519	.055	1.92	2.40	.56	.68	6.36	391,423	3,409.968	118,394.72	1,478.4895	342.2075	418.0311
1951	65,418	.048	1.76	1.90	.48	.56	6.08	397,806	3,149.995	114,941.29	1,245.7959	312.6235	367.9586
1952	53.474	.047	1.58	0.90	.41	.45	4.23	226,224	2,538.436	84,447.52	483.3284	216.9239	240.0968
	352,375	.065	2.09	1.46	.59	.56	5.24	1,846,978	22,762.453	736,924.21	5,133.7558	2,089.3944	1,339.5334

*1946 - 1952 237,350 Ton. Tonnage Assayed for Zinc

TOTAL ALL MINED

Year													
1942	136,564	.114	1.79	1.02	.26	—	4.35	598,923	15,649.315	244,447.01	1,397.7265	353.6545	—
1943	184,051	.133	2.10	1.93	.31	—	5.63	1,036,873	24,447.694	385,961.43	3,551.6770	566.9944	—
1944	152,789	.127	1.73	1.50	.21	—	5.06	772,634	19,421.143	264,984.56	2,288.0245	407.0615	—
1945	146,363	.096	1.43	1.77	.29	—	4.42	647,024	14,058.810	209,027.79	2,590.1205	421.8495	—
1946	156,476	.104	1.38	1.17	.21	.90	3.97	614,081	16,247.006	215,155.07	1,831.2035	321.8810	1,411.9859
1947	167,757	.106	1.89	1.16	.14	.55	5.34	896,094	17,851.909	316,550.21	1,953.8969	239.3633	926.1898
1948	167,888	.066	2.46	1.40	.13	.64	5.18	869,915	11,038.967	413,870.08	2,347.4487	224.8944	1,069.4577
1949	185,261	.048	2.29	1.22	.18	.64	4.55	842,881	8,794.117	424,024.16	2,268.0925	336.5395	1,193.5449
1950	217,228	.056	2.26	1.76	.33	.76	5.31	1,153,432	12,049.275	491,646.04	3,829.6287	712.1902	1,524.3371
1951	155,388	.051	1.60	2.00	.38	.67	5.98	928,463	7,920.002	247,979.34	3,115.7022	591.6726	1,038.1978
1952	114,520	.051	1.33	1.37	.34	.67	4.73	542,053	5,824.930	151,930.37	1,567.6069	390.8453	765.5792
	1,784,285	.086	1.89	1.50	.26	.68	4.99	8,902.373	153,303.168	3,365,576.06	26,741.1279	4,566.9462	7,929.2924

*1946 - 1952 1,164,515 Ton Assayed for Zinc

Metal Prices

Year	Au	Ag	Pb	Cu
1942 - 1946	$ 35	.7111	.065	.12
1947 - 1948	35	.90	.1255	.195
1949	35	.90	.131	.173
1950	35	.90	.105	.17
1951 - 1952	35	.90	.13	.20

	Tons	Au	Ag	Pb	Cu	Zn	$/ton	$	Au Oz.	Ag Oz.	Pb Ton	Cu Ton	Zn Ton
Melville Pills 1952	4,941	0.053	1.33	2.00	0.31	0.68	5.70	28,149	264.330	6,593.63	98.6070	15.2735	33.3890

Shenandoah-Dives Mining Co
Silverton, Colorado

Page 1

SHENANDOAH-DIVES MINING COMPANY

GRADE & TONNAGE OF ORE EXCAVATED, 1942 thru 1952
FROM SHENANDOAH-DIVES, 3220, 3490 & 4177 VEINS

MINE ASSAY RECORD OF ORE EXCAVATED

(NOTE: $ Value is 60% of the gross market price)

Shenandoah-Dives

Year	Tons	Au	Ag	Pb	Cu	Zn	$ Value $/Ton	$ Value Total	Au Oz.	Ag Oz.	Pb Tons	Cu Tons	Zn Tons
1942	86,441	.127	1.75	1.15	.16	--	4.63	400,107	11,109.711	153,275.79	1,008.7735	138.0445	--
1943	110,528	.170	2.17	2.64	.18	--	6.82	753,691	18,850.654	240,104.68	2,915.6922	195.6629	--
1944	116,887	.134	1.30	1.60	.02	--	4.85	566,566	15,715.371	151,608.52	1,870.5355	166.[illegible]620	--
1945	109,439	.100	1.10	1.81	.04	--	4.11	449,806	10,971.210	120,291.26	1,976.7005	95.1850	--
1946	126,365	.109	1.66	1.12	.06	.97	3.71	462,571	13,810.375	133,420.03	1,417.9135	79.0345	1,226.7776
1947	145,850	.111	1.[illegible]	1.20	.07	.57	5.40	787,990	16,221.023	271,300.12	1,[illegible].4997	[illegible]9.1970	828.[illegible]015
1948	152,750	.063	2.45	1.38	.10	.59	5.02	766,913	9,557.391	374,111.16	2,113.0955	159.9308	901.3675
1949	147,229	.048	1.39	1.14	.12	.56	4.38	644,869	6,998.657	353,147.40	1,671.8059	179.1727	824.4659
1950	90,621	.050	2.85	1.80	.12	.42	4.[illegible]	450,724	4,881.550	275,052.[illegible]	1,[illegible]	[illegible].0390	406.[illegible]
1951	19,093	.041	2.02	[illegible]	.1[illegible]	.06	5.43	123,744	791.219	38,627.52	[illegible]19.1163	[illegible].7525	129.4[illegible]
(Raising) 1952	1,722	.020	.56	[illegible]	.03	.11	[illegible]	[illegible]	67.805	[illegible]	17.4[illegible]	[illegible]	19.0[illegible]
	1,112,940	.098	1.90	1.50	.11	.53	4.86	5,412,020	109,974.966	2,111,926.45	16,711.7151	1,196.0461	4,[illegible]

1946 - 1952 689.646 Tn This Tonnage Assay For Zn.

3220 Vein - Silver Lake

Year	Tons	Au	Ag	Pb	Cu	Zn	$/Ton	Total	Au Oz.	Ag Oz.	Pb Tons	Cu Tons	Zn Tons
1942	15,387	.087	1.93	.76	.52	--	4.07	62,611	1,344.588	29,769.21	112.2090	[illegible]9.6910	--
1943	22,645	.092	2.24	1.51	.67	--	5.03	113,993	2,088.700	50,802.50	340.9852	[illegible]1.3959	--
1944													
1945													
1946													
1947	4,892	.058	1.06	.47	.41	.99	3.46	16,910	285.167	5,207.64	22.9990	[illegible].9129	48.5472
1948	12,988	.104	2.72	1.63	.45	1.19	7.1[illegible]	92,362	1,356.460	35,367.80	212.2875	[illegible].1226	154.4836
1949	30,369	.048	1.96	1.48	.39	.98	5.14	156,183	1,457.044	59,569.07	450.3346	119.3374	298.1481
1950	59,088	.064	1.66	1.68	.43	1.18	5.27	311,285	3,757.757	98,198.79	994.0463	251.8937	699.6772
1951	70,871	.055	1.33	1.91	.36	.77	5.74	406.913	3,928.788	94,410.53	1,350.7880	256.8213	544.7406
1952	58.447	.055	1.14	1.82	.30	.36	5.31	310.458	3,206.880	66,404.79	1,066.4660	172.5952	504.9253
	274,687	.063	1.60	1.65	.40	.82	5.36	1,471,716	17,425.384	439,730.33	4,555.0251	1,110.7710	2,250.4620

1947 - 1952 236,655 Tn This Tonnage Assayed for Zn

3490 Vein

Year	Tons	Au	Ag	Pb	Cu	Zn	$/Ton	Total	Au Oz.	Ag Oz.	Pb Tons	Cu Tons	Zn Tons
1942	26,473	.092	1.71	.90	.38	--	3.99	105,534	2,441.550	45,373.84	238.4640	102.0895	--
1943	16,942	.097	1.86	.60	.40	--	3.88	65,693	1,637.006	31,504.61	101.8450	67.9189	--
(Raising) 1952	867	.014	.13	.04	.02	.11	0.50	432	11.809	116.62	.3229	.2113	.9549
	44,282	.092	1.74	.77	.38	.11	3.88	171,659	4,090.364	76,995.07	340.6319	170.2197	0.9549

1952 867 Tn Assayed For Zn

Exhibit 1 — Page 2

THE MINE RECORD, PRESENTED IN THREE PERIODS: 1. Prior to Production, 1926-27; 2. Iowa Mill Operation, 1928-29; 3. Current Operation, 1930-52;

YEAR	DRIFTING Total Lin. ft.	DRIFTING Productive Lin. ft.	DRIFTING Productive Sq. ft.	DRIFTING Productive Tons	CROSSCUTTING Total Lin. ft.	CROSSCUTTING Productive Lin. ft.	CROSSCUTTING Productive Sq. ft.	CROSSCUTTING Productive Tons	RAISING Total Lin. ft.	RAISING Productive Lin. ft.	RAISING Productive Sq. ft.	RAISING Productive Tons
1926-27	3,584				505				555			
1928-29	2,860	2,314	15,459	8,928	224		210	928	1,363	863	13,349	7,414
1930	3,123	2,456	21,042	13,291	140	98	959	548	700	529	10,341	6,053
1931	4,615	4,348	34,560	23,206	899	143	346	502	1,881	1,599	26,204	15,681
1932	1,999	1,791	14,279	9,281	404	55	170	212	1,092	1,092	19,256	12,102
1933	2,532	1,687	13,333	7,443	208	66	197	214	2,004	1,182	19,249	9,795
1934	2,076	1,267	13,707	7,139	519	24	434	293	2,299	1,440	22,085	12,411
1935	3,412	3,070	37,462	20,139	27	27	217	114	994	951	17,948	9,112
1936	3,627	3,203	24,952	17,402	776	213	1,471	750	1,132	754	12,165	6,681
1937	2,422	2,329	23,285	13,675	131	49	122	156	749	521	8,507	4,531
1938	2,071	1,819	18,203	10,542	83	40	46	143	571	468	9,856	5,533
1939	1,500	1,203	11,193	6,295	153	23	201	94	666	257	9,564	5,037
1940	3,142	2,854	28,341	13,825					937	415	5,962	3,173
1941	2,872	2,695	31,360	13,222	20	20	28	44	503	503	13,148	6,650
1942	1,588	1,485	16,121	7,868	232	144	549	1,021	477	470	8,762	5,342
1943	2,497	2,438	26,179	12,291	202	159	1,047	1,129	191	191	2,954	1,403
1944	3,339	3,339	32,543	17,530								
1945	1,935	1,617	16,382	9,083					71	71	1,152	697
1946	2,681	1,725	14,419	8,419	19	19	64	100	229	152	2,644	1,414
1947	2,915	1,462	14,062	8,017	47	17	291	168	645	105	2,305	1,205
1948	1,732	1,732	17,696	10,227	1,037	1,037	9,061	5,486	859	516	9,248	4,649
1949	3,248	2,803	26,367	15,506	158	158	1,343	830	642	364	6,660	3,358
1950	1,383	1,383	12,335	8,321					24	24	423	241
1951	1,351	1,321	11,636	8,365	81	35	280	230	231	231	3,690	2,589
1952	1,897	1,335	11,261	7,753	255	255	1,808	2,118	215	215	3,487	2,154
1930-52	57,657	49,362	471,218	268,904	5,391	2,587	18,634	14,152	17,405	12,351	215,018	118,515
TOTALS	64,101	51,676	486,677	277,832	6,120	2,587	18,844	15,080	19,323	13,214	228,367	125,929

YEAR	SINKING Total Lin. ft.	SINKING Productive Lin. ft.	SINKING Productive Sq. ft.	SINKING Productive Tons	STOPING Sq. ft.	STOPING Tons	TOTAL ORE Tons	TOTAL WASTE Excavated Tons	WORK ROOMS Cu.ft.	DRILL HOLE EXPLORATION Lin. ft.
1926-27										309
1928-29					59,349	45,071	62,341	15,571	46,418	329
1930					111,415	98,484	118,376	5,459	15,300	426
1931					156,402	141,357	180,746	11,269	11,460	406
1932					167,868	161,720	183,315	5,935	4,564	
1933					235,545	167,044	184,500	18,259	15,795	1,610
1934	4	36	372	204	251,808	181,539	201,786	19,886		2,745
1935	164	194	4,629	2,785	127,295	79,163	111,313	3,261	47,788	844
1936	119	89	1,734	2,130	275,540	174,548	201,511	11,429	19,173	1,170
1937	331	96	1,369	745	239,360	171,393	190,500	8,524	21,151	867
1938	87	87	1,336	862	239,623	191,248	208,328	6,809	3,958	2,014
1939	162	85	1,468	982	187,536	129,120	141,532	9,557	41,550	1,126
1940	12				284,126	179,002	196,000	6,961	9,714	1,813
1941					343,220	208,789	228,765	1,210		1,507
1942					225,435	123,833	136,564	698	1,993	113
1943					290,300	167,888	182,711	687	8,658	286
1944					212,704	135,259	152,789	272		678
1945					228,827	136,583	146,363	1,889		882
1946					230,168	140,302	150,735	9,027	13,877	741
1947					214,217	134,016	143,406	14,210		1,212
1948					180,916	114,066	134,428	2,055		663
1949					228,518	138,077	157,771	3,819		1,673
1950					320,073	197,441	206,003			342
1951					224,661	144,204	155,388	472		705
1952					194,915	102,495	114,520	1,540		389
1930-52	941	587	10,908	7,708	5,170,472	3,418,071	3,827,350	143,228	214,981	22,212
TOTALS	941	587	10,908	7,708	5,229,821	3,463,142	3,889,691	158,799	261,399	22,850

TOTAL DEVELOPMENT & EXPLORATION

Major Openings:	Feet
Drifting,	64,100
Crosscutting,	6,120
Raising,	19,323
Sinking,	941
Totals,	90,484
Drill-Hole Explor.	22,850
All Development and Exploration,	113,334

CONTRIBUTIONS OF ORE

	1928-9	1930-52	1952
Development,	27.7 %	10.7 %	10.5 %
Stoping,	72.3 %	89.3 %	89.5 %

WIDTHS OF ORE:

Development,	6.9 ft.	7.3 ft.	9.3 ft.
Stoping,	9.1 "	8.5 ft.	6.7 "
Totals,	8.5 "	8.3 "	6.9 "

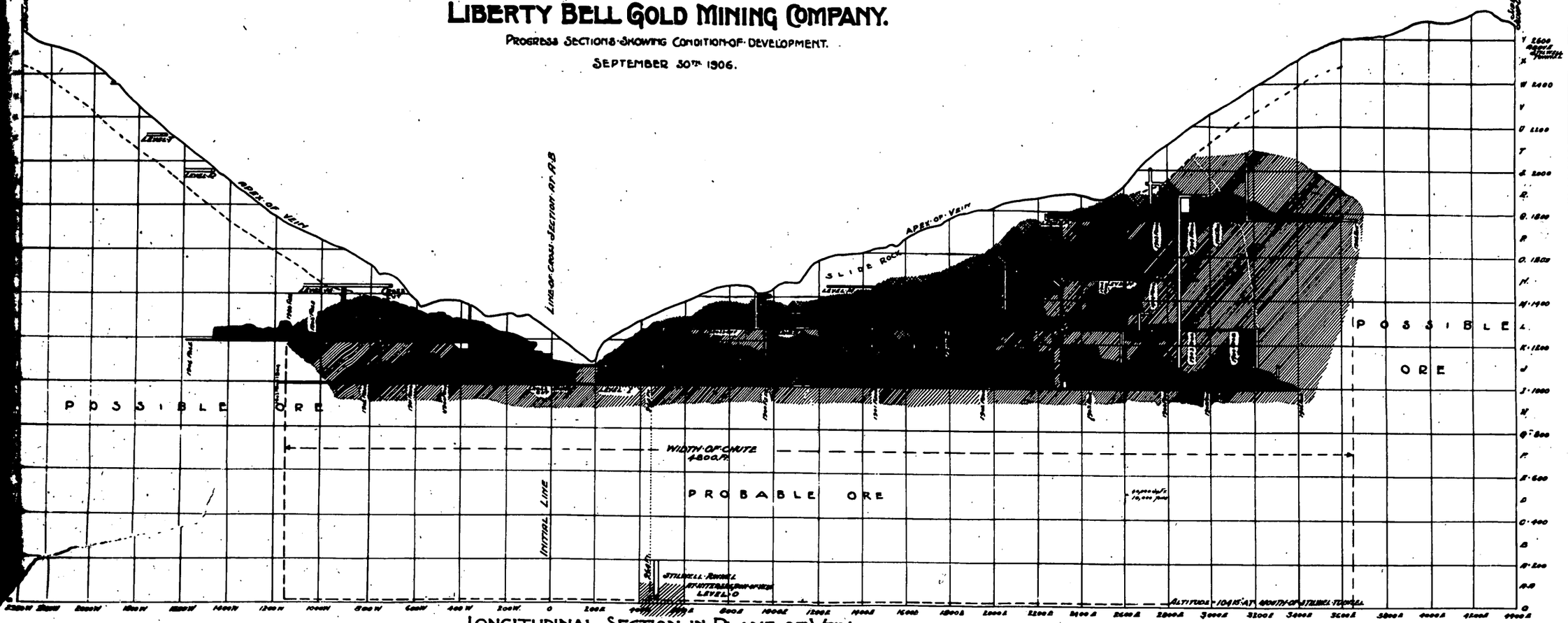
RECONCILEMENT, MINE AND MILL TONNAGES:

			Tons
Ore from Mine, not excavated by Company	(Dumps, 117,238 Tons) (Fills, 80,158 ") (Other, 29,597 ")	-	226,993
Mined, as shown above,		3,889,691	
Mined, above 1900 level, omitted from the above record,		5,193	3,894,884
Total,			4,121,877
Milled, as shown,			4,184,601
Balance called for at Mine,			-62,724
Excavated reserve reported at Mine,			99,491
Not accounted for, partly dilution,			162,215

LIBERTY BELL GOLD MINING COMPANY.

PROGRESS SECTION SHOWING CONDITION OF DEVELOPMENT.

SEPTEMBER 30TH 1906.



LONGITUDINAL SECTION IN PLANE OF VEIN.

HORIZONTAL AND VERTICAL SCALE 1" : 400'

Vertical Distances measured on Slope of vein.

Ore Stoped 408,282 Dry Tons from - -	1,259,000 Sq. Ft.
Pinched and Unworkable Vein - - -	250,000 " "
Ore "In Sight" - - - - - - -	816,000 Tons, Dry.
Width of Chute 4,800 ft.	
Probable Ore in Chute above Stilwell Tunnel - - -	1,150,000 " "
Total Ore in Sight and Probable - -	1,466,000 Tons, Dry.
Estimated Ore beyond Chute within Property, and above Stilwell Tunnel (¼ of Possible) -	300,000 " "
Total in Sight Prob. and Estim. - -	1,766,000 Tons, Dry.
Possible Ore within Property above Stilwell Tunnel, and in addition to the last Total - - -	900,000 " "
Total Possible above Stilwell Tunnel -	2,666,000 Tons, Dry.
Probable and Possible Ore below Stilwell Tunnel - -	Not Estimated.

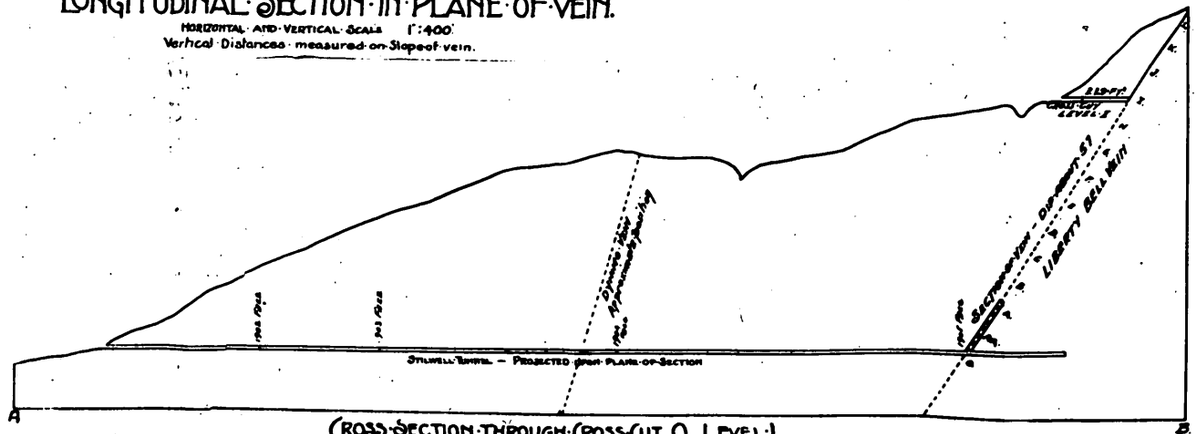
Progress of Development for Year Ending September 30th, 1906.

Ore Mined, 92,221 Tons, dry.—Tunnelling, 292 ft.
Drifting, 2,206 ft. Crosscutting, 40 ft. Upr. 1,812 ft. Total deadwork 3,850 ft.

NOTE.—The above results are calculated on the following assumptions

Average width of Vein,—8.52 ft. (Actual average of eight years.)
One ton in solid (dry) 13 cub. ft.
Distance between Stilwell Tunnel and 1 Level,—964 ft.

In calculating the average width of vein, upon which the Ore in sight and other tonnage results are based, the area of pinched and unworkable vein so far developed is included within the stoped area.



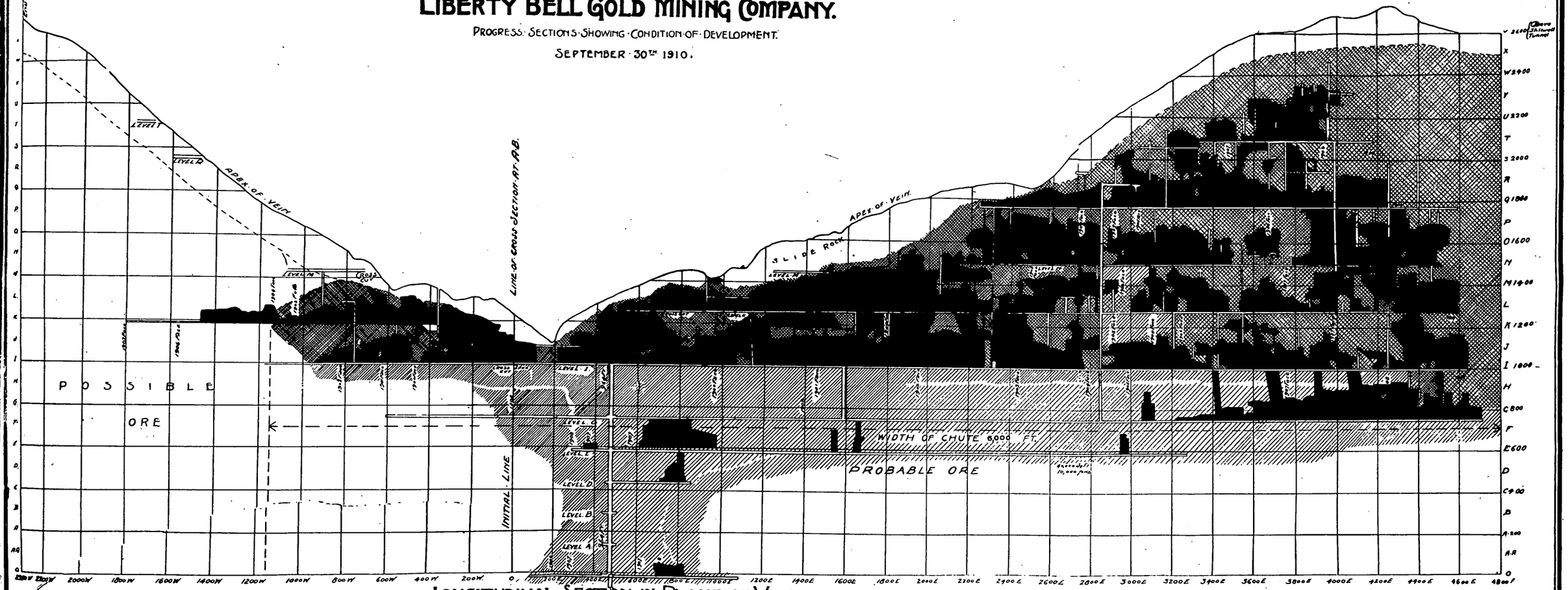
CROSS SECTION THROUGH CROSS CUT O LEVEL 1.

HORIZONTAL AND VERTICAL SCALE 1" : 400

LIBERTY BELL GOLD MINING COMPANY.

PROGRESS SECTIONS SHOWING CONDITION OF DEVELOPMENT.

SEPTEMBER 30TH 1910.



LONGITUDINAL SECTION IN PLANE OF VEIN.

HORIZONTAL AND VERTICAL SCALE 1" : 400'

Vertical distances measured on slope of vein.

Ore stoped 2,680,000 sq. ft. yielding	887,606	Tons, dry.
Pinched and unworkable vein 2,150,000 sq. ft.		
Ore "in sight"	676,000	Tons, dry.
Width of shoot 6,000 ft.		
Probable ore in shoot above Stilwell tunnel	630,000	" "
Total ore in sight and probable	1,306,000	Tons, dry.
Estimated ore beyond shoot within property, and above Stilwell tunnel (½ of possible)	130,000	" "
Total in sight prob. and estim.	1,436,000	" "
Possible ore within property above Stilwell tunnel and in addition to the last total	400,000	" "
Total possible above Stilwell tunnel	1,836,000	Tons, dry.
Probable and possible ore below Stilwell tunnel	Not estimated	

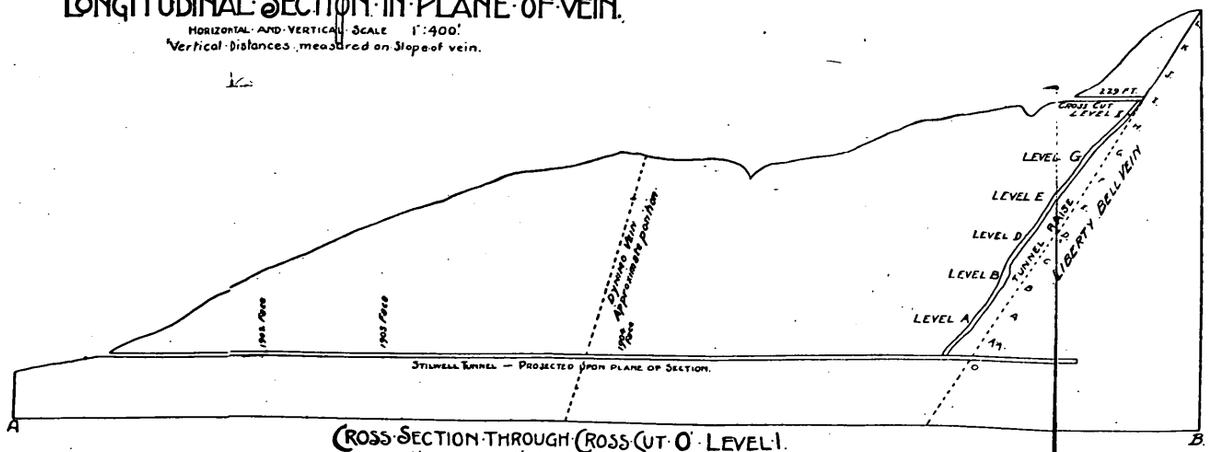
Progress of development for year ending September 30, 1910.

Ore mined 134,321 Tons, dry.
Drifting 3,951 ft. Upraising 1,423 ft.
Total deadwork 5,374 ft.

NOTE.—The above results are calculated on the following assumptions:

Average width of vein—3 ft. (Actual average of 11 years.)
One ton in solid (dry) 13 cub. ft.
Distance between Stilwell tunnel and I level 964 ft.

In calculating the average width of vein, upon which the ore in sight and other tonnage results are based, the area of pinched and unworkable vein so far developed within the limits of operations is included as if it were a part of the stoped area.



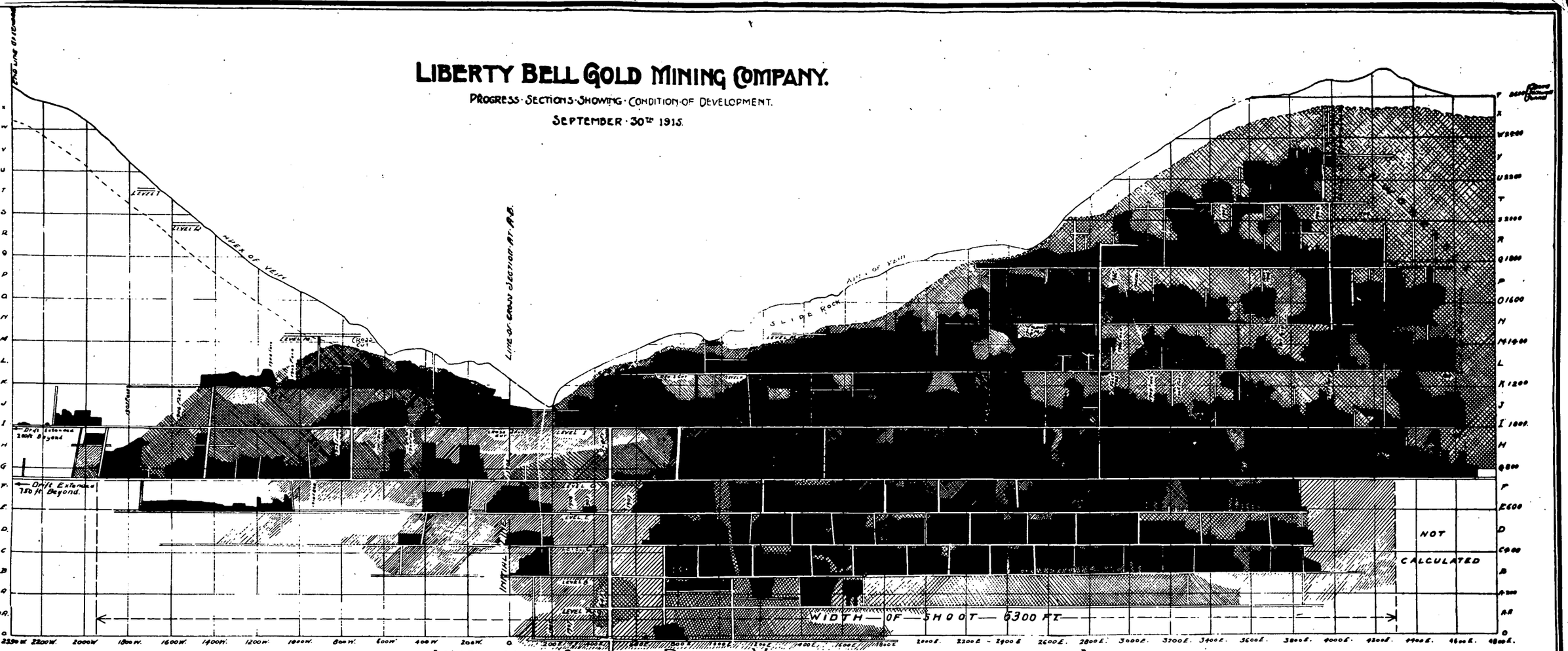
CROSS SECTION THROUGH CROSS CUT O' LEVEL I.

HORIZONTAL AND VERTICAL SCALE 1" : 400'

LIBERTY BELL GOLD MINING COMPANY.

PROGRESS · SECTIONS · SHOWING · CONDITION · OF DEVELOPMENT.

SEPTEMBER · 30TH 1915.



LONGITUDINAL SECTION IN PLANE OF VEIN.

HORIZONTAL AND VERTICAL SCALE 1" : 400'

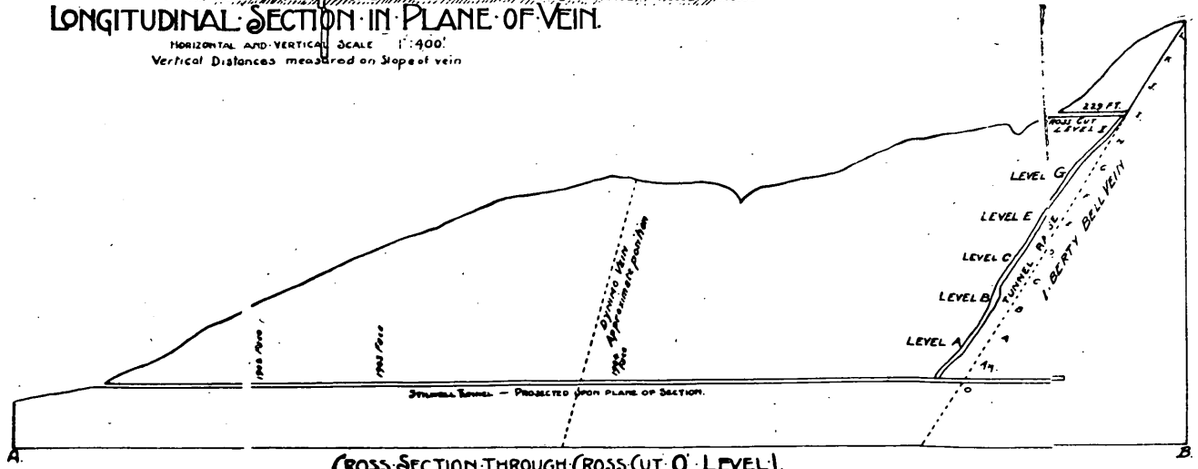
Vertical Distances measured on Slope of vein

Ore Stoped 4,980,000 sq. ft. yielding.	1,746,000 Tons, dry.
Pinched and Unworkable Vein.	
Ore in Sight and Probable 648,000 sq. ft.	218,000 Tons, dry

A comparison of this section with that of the preceding year will show that large areas of what was considered probable and possible ore have now been thrown into pinched and unworkable vein. This is the result of further development and of a study and revision of the assay results and conditions of previous development; in many cases the results obtained in the driving of drifts and raises have not maintained when stoping was begun. The ore now considered in sight and probable is confined to scattered patches on the west side, to the ground in pillars and in close proximity to the main upraise, and to the extreme eastern end of the lower levels. Possible ore may be looked for below the Stilwell Tunnel and to the extreme east in the foot wall split of the vein which is not being explored.

PROGRESS OF DEVELOPMENT FOR THE YEAR ENDING SEPT. 30, 1915.

Ore Mined 173,500 tons, dry, from 442,000 sq. ft. stoped
Drifting 4,300 ft Upraising 811 ft. Total 5,139 ft.



CROSS SECTION THROUGH CROSS CUT O' LEVEL I.

HORIZONTAL AND VERTICAL SCALE 1" : 400'

Standard Form No. 65
November 1961
General Services Administration
General Regulation No. 27

U.S. Government Messenger Envelope

65-106

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
~~[illegible]~~ ~~[illegible] Expt.~~ ~~Rm. 4456.~~	STOP		STOP
2991. Mafos	STOP		STOP
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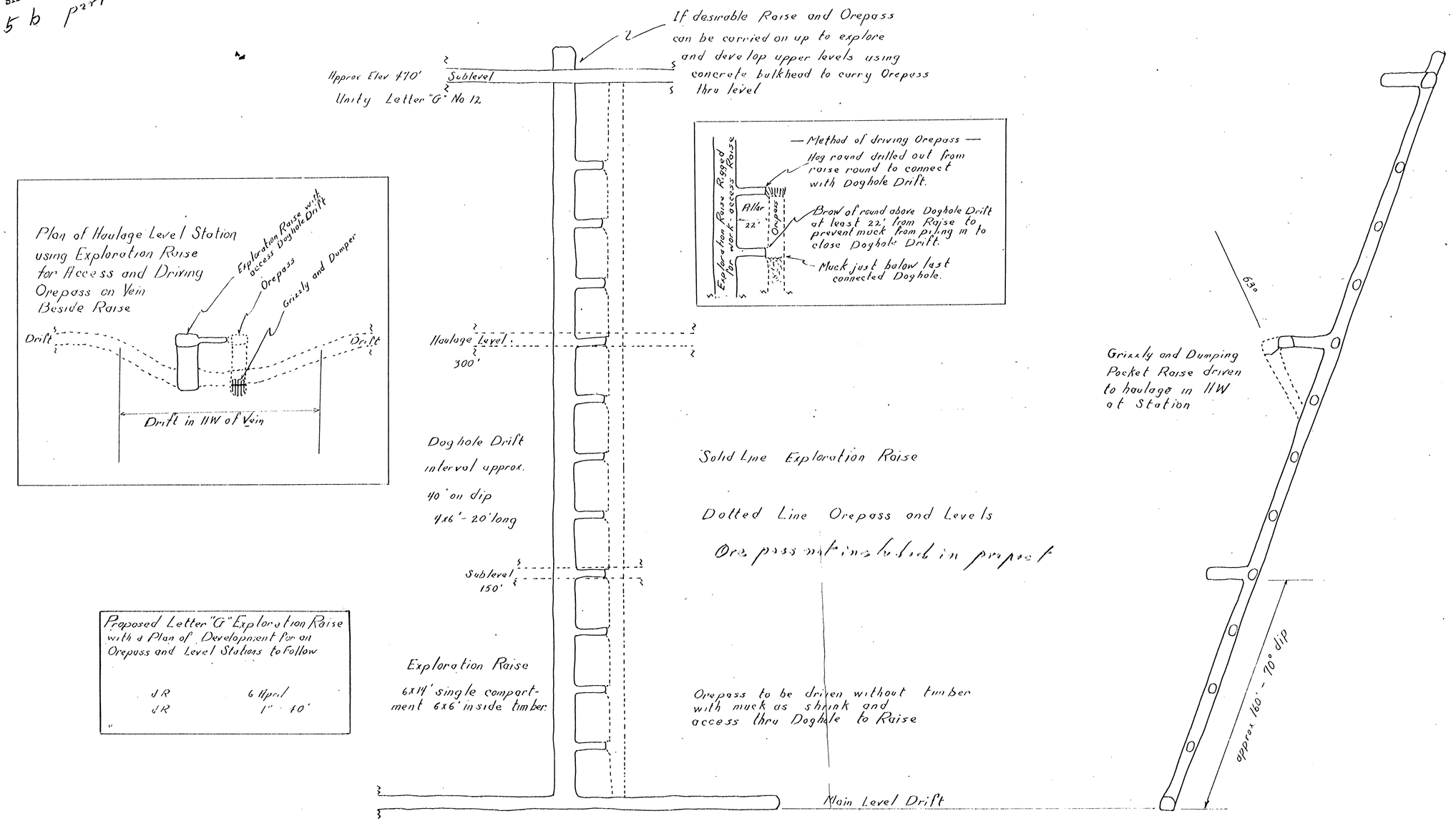
Use STOP only when messenger service between Government buildings in Washington, D.C., is required or wherever a STOP system is used. Your mail room has STOP information.

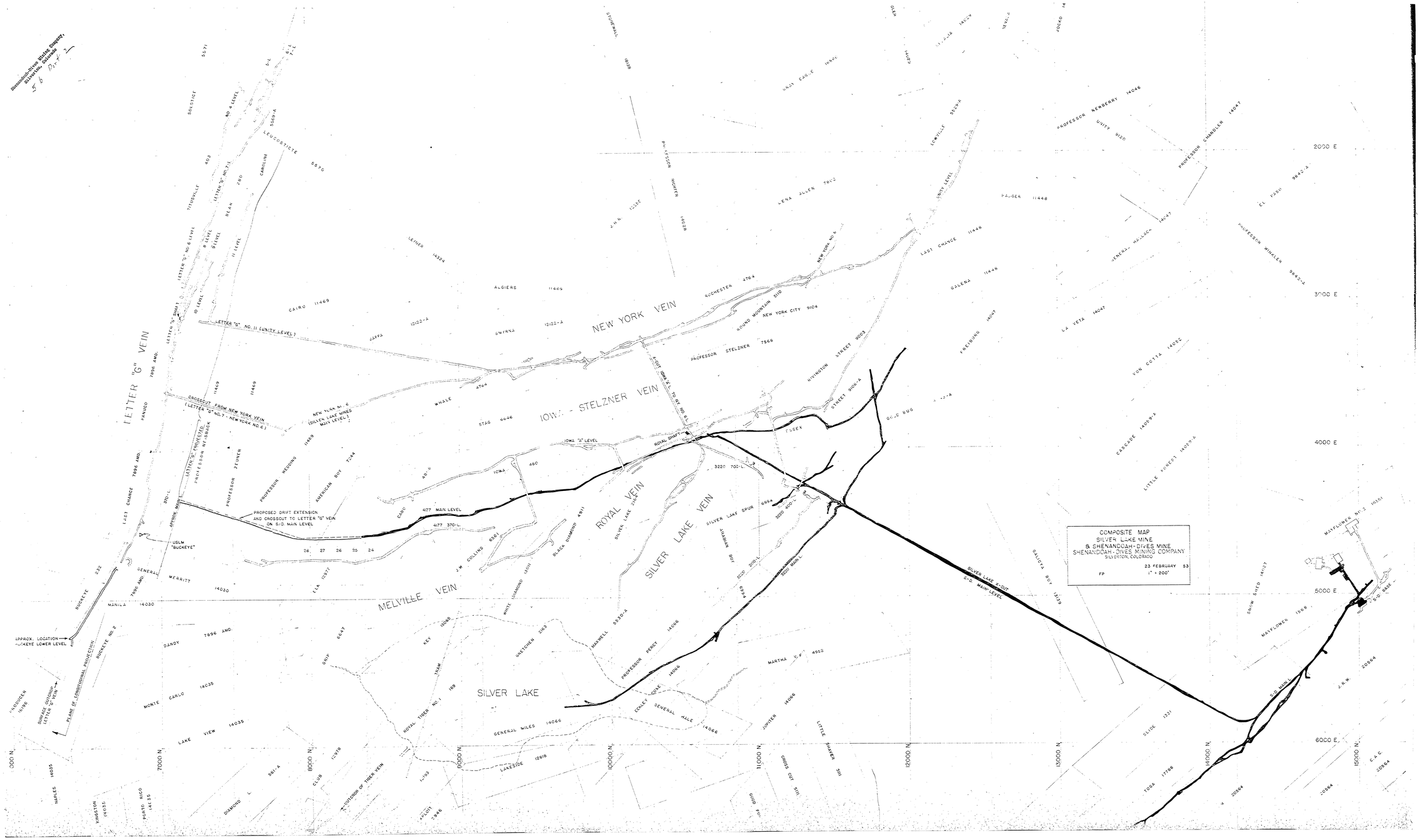
MF 103

Shenandoah-Dives Mining Company,
Silverton, Colorado

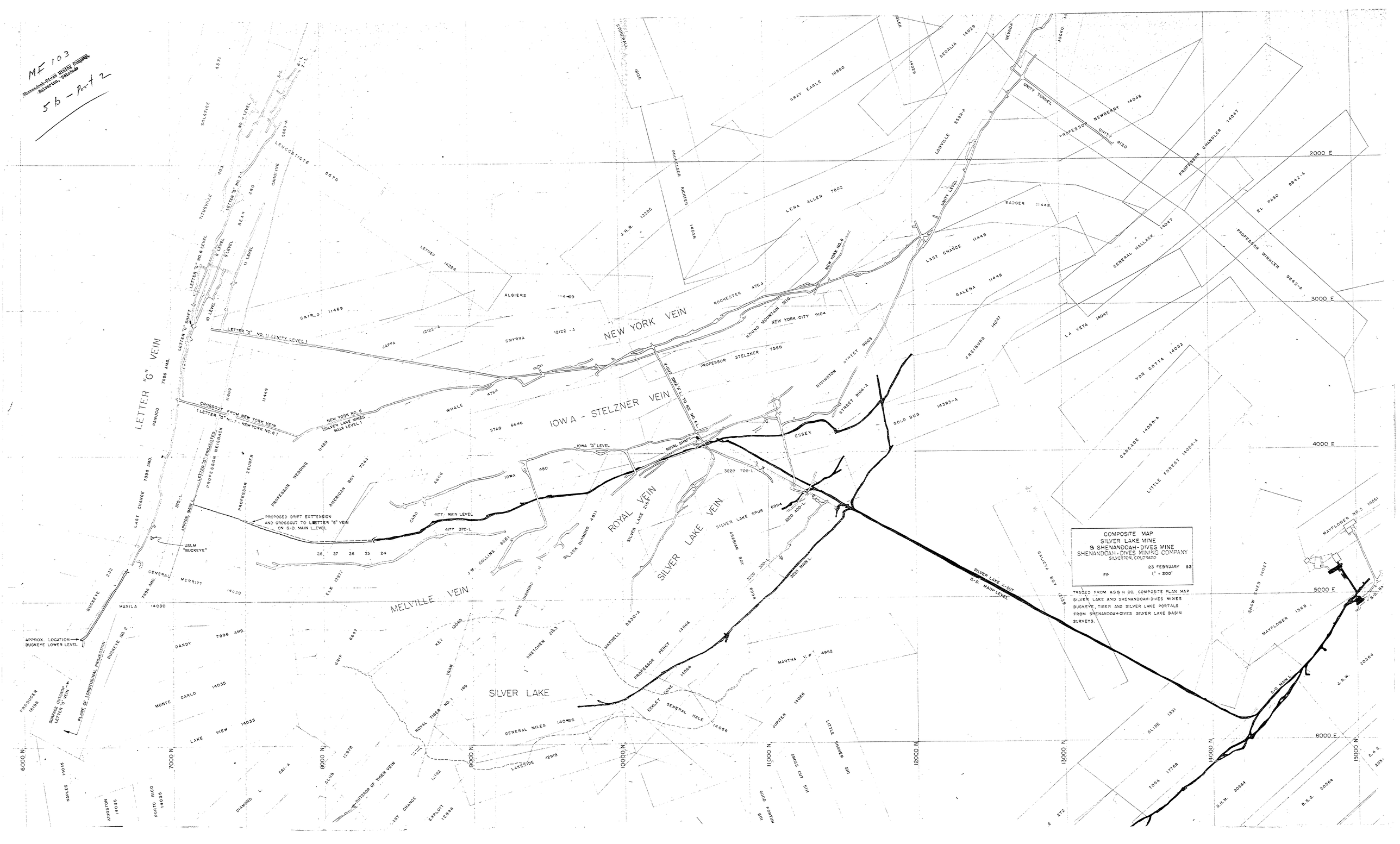
5 b part 4



Shenandoah-Dives Mining Company
Silverton, Colorado
5 b Pt 2



ME 103
Shenandoah-Dives Mining Company
Silverton, Colorado
5b - Part 2



Shenandoah-Dives Mng. Co. Samples at 60% of these Prices
J. Holmgren
J. Robison
H. Anderson

Au Ag Pb Cu
$35.00 0.70 0.13 0.10
In not Included in Money Value

PLANE OF PROJECTION N 72° W — AT STRIKE OF VEIN

BUCKEYE

Caved

Caved

Inaccessible

BUCKEYE DRIFT

BUCKEYE L.M.

Caved

NO 7-L

PRIOR 1892

TITOVILLE

NO. 6-L

NO. 7-L

LETTER "G" SHAFT

NEW YORK VEIN ON SILVER LAKE MINES MAIN-L

NEW YORK VEIN ON UNITY TUNNEL LEVEL

SHENANDOAH-DIVES MAIN LEVEL

Assay Dollar Values are from old Print "Long. Projection Scale 1"=50' Assay Round SILVER LAKE MINES" Date Not Shown (?) 1908-1912. Dollar values only given without units or assay values. Sample interval is at 5 and 10 feet.

LONGITUDINAL PROJECTION
LETTER "G" VEIN
LOOKING S 16° W
SHENANDOAH-DIVES MINING COMPANY
SILVERTON, COLORADO

JR 23 FEB. 53
1" = 200'

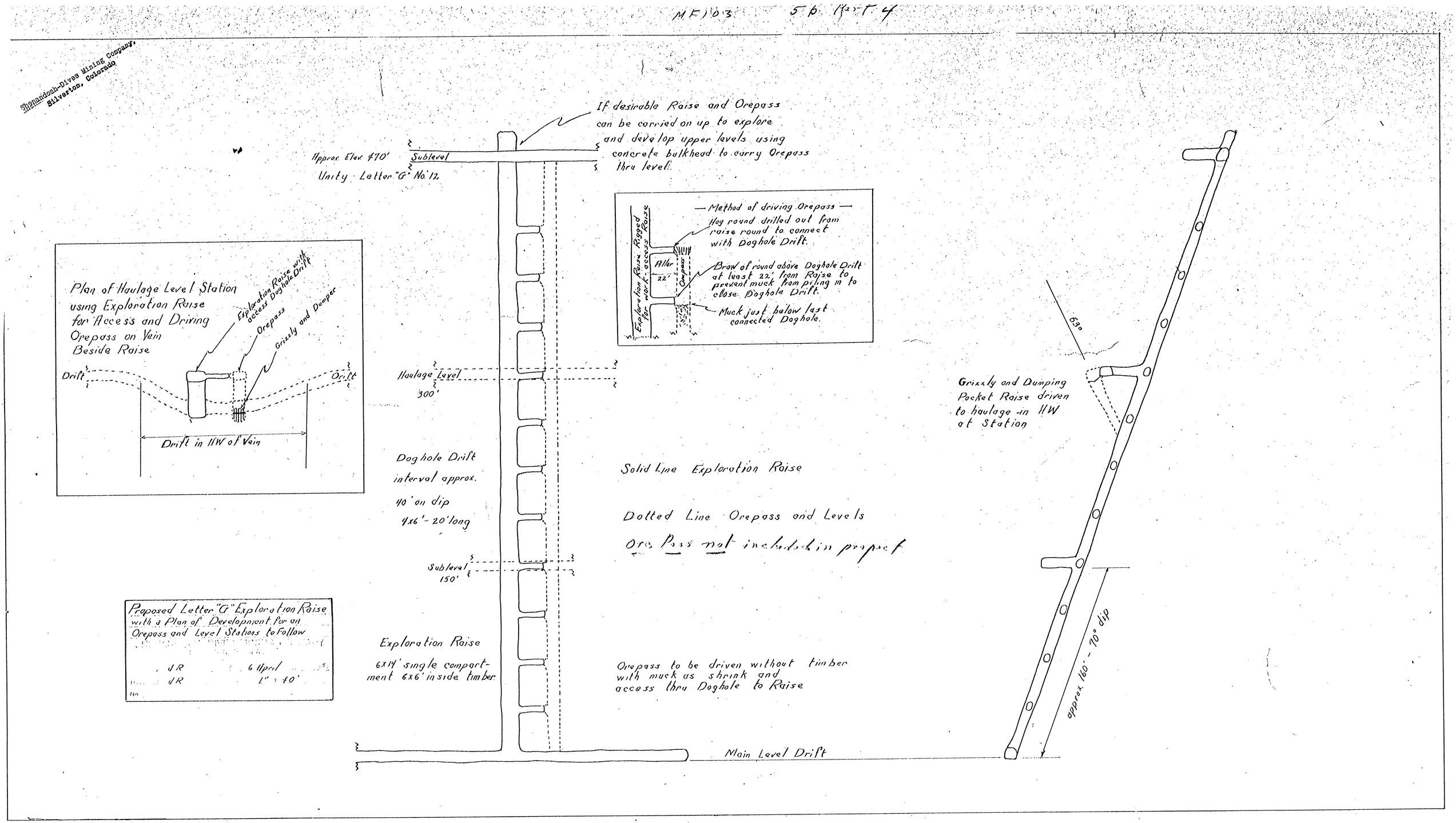
COMPILED FROM VARIOUS SECTIONS AND PLANS OF THE SILVER LAKE MINES CO., A.S.&R.CO. PLAN COMPILATION SCALE 1"=200', SHENANDOAH-DIVES SURFACE SURVEY TO BUCKEYE L.M. AND OUTCROP. DISTANCES AND ELEVATIONS OF THE VARIOUS WORKINGS MUST BE TAKEN AS APPROXIMATE ONLY.

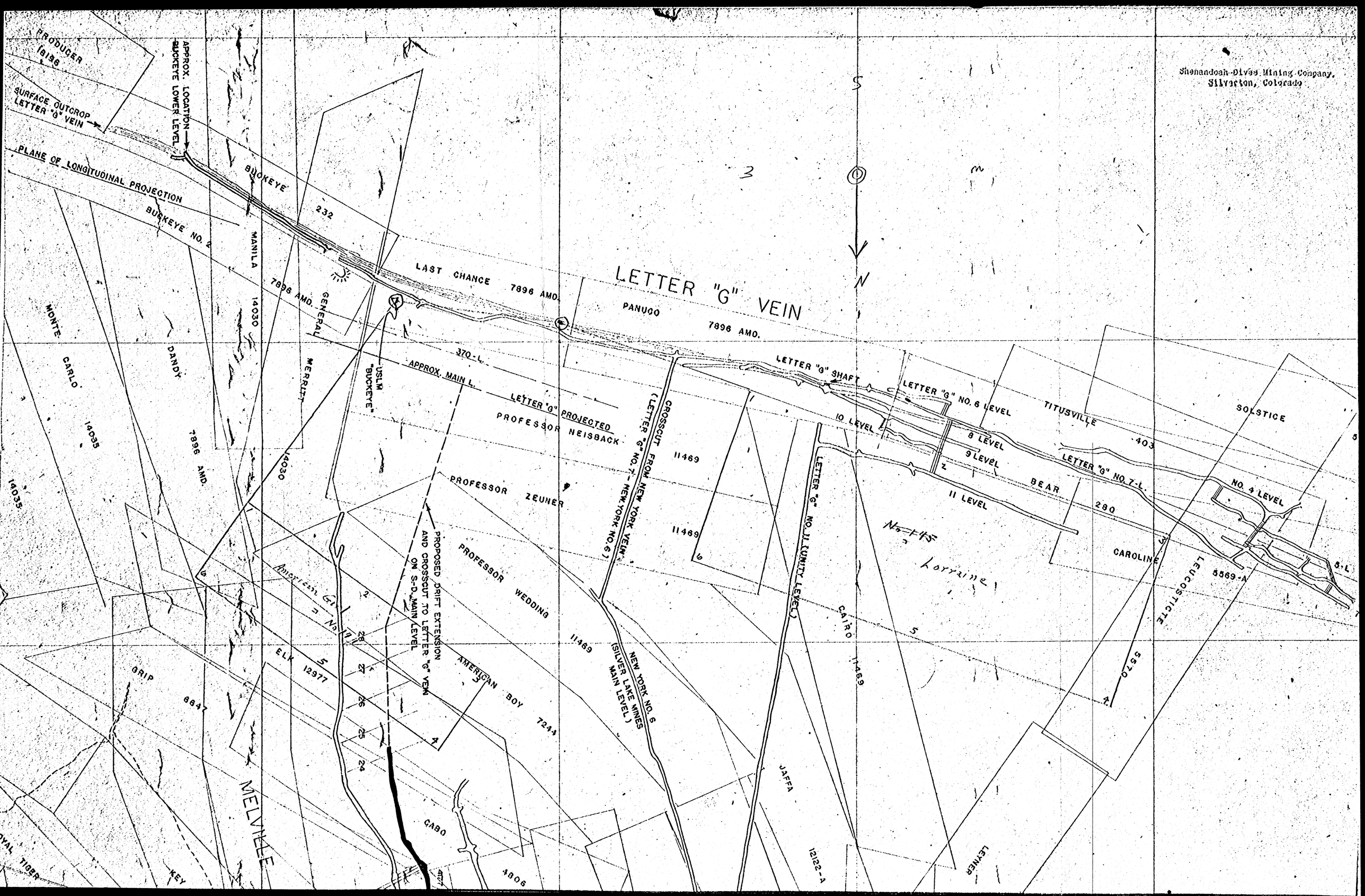
PROPOSED X-CUT ON SHENANDOAH-DIVES MAIN LEVEL FROM 4177 VEIN DRIFT 1250'

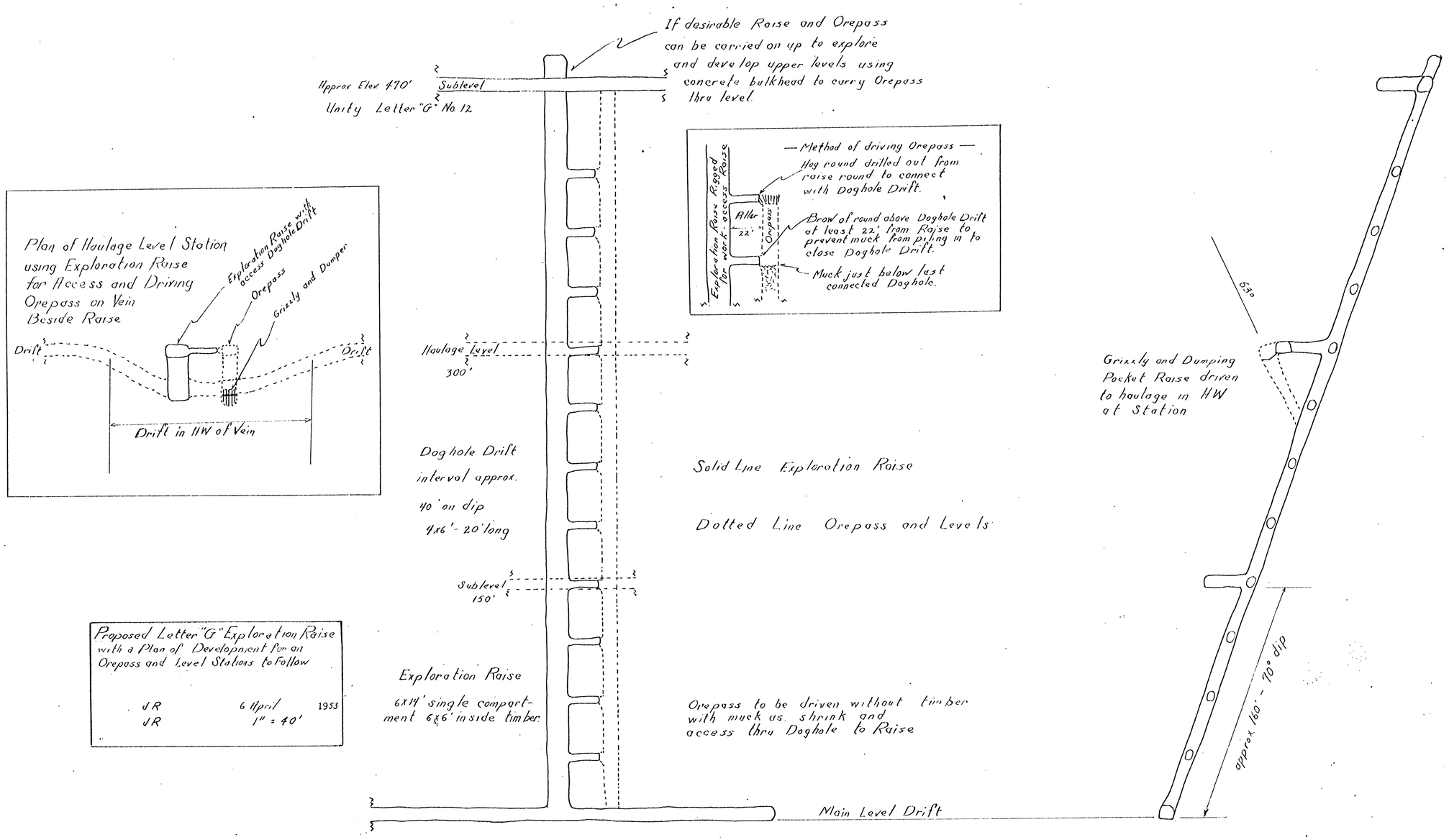
10E 0 10W 20W 30W

MF103 5 p. Part 4

Shenandoah-Dives Mining Company,
Silverton, Colorado

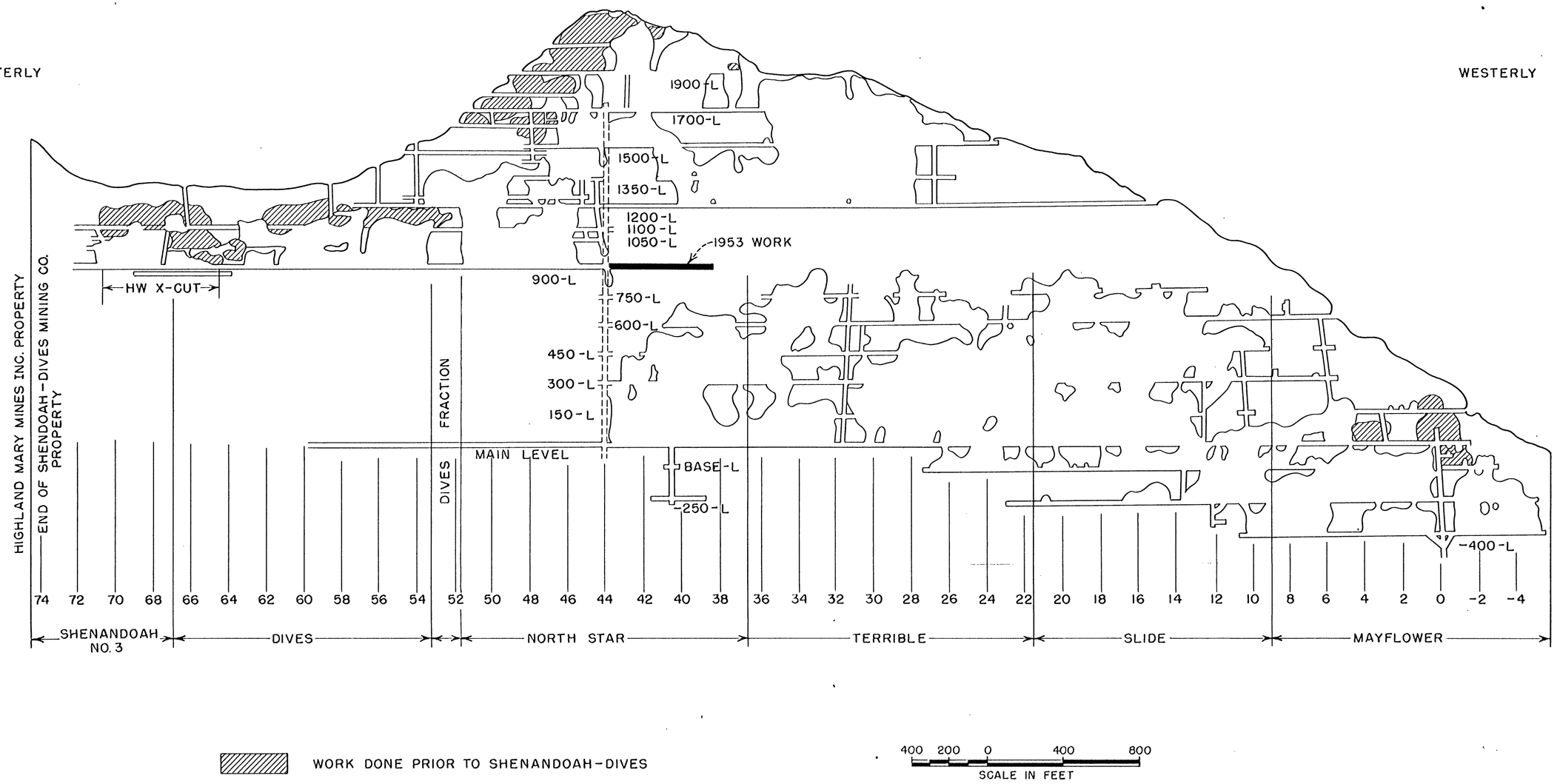



Shenandoah-Dives Mining Company.
Silverton, Colorado
LETTER "G" VEIN
PRODUCER
6136
SURFACE OUTCROP
LETTER "G" VEIN
APPROX. LOCATION
BUCKEYE LOWER LEVEL
PLANE OF LONGITUDINAL PROJECTION
BUCKEYE NO. 2
BUCKEYE
232
MANILA
14030
GENERAL
MERRITT
MONTE
CARLO
14035
DANDY
7896 AMD.
14030
14035
LAST CHANCE 7896 AMD.
PANUCO
7896 AMD.
USLM
"BUCKEYE"
370-L.
APPROX. MAIN L.
LETTER "G" PROJECTED
PROFESSOR NEISBACK
CROSSCUT FROM NEW YORK VEIN
(LETTER "G" NO. 7 - NEW YORK NO. 6)
11469
11469
PROFESSOR ZEUHER
PROFESSOR WEDDING
11469
PROPOSED DRIFT EXTENSION
AND CROSSCUT TO LETTER "G" VEIN
ON S-D. MAIN LEVEL
American Girl No. 1
ELK 12977
GRIP
884
AMERICAN BOY 7244
NEW YORK NO. 5
(SILVER LAKE MINES
MAIN LEVEL)
CABO
4806
MELVILLE
ROYAL TIGER
KEY
LETTER "G" SHAFT
LETTER "G" NO. 6 LEVEL
10 LEVEL
9 LEVEL
8 LEVEL
11 LEVEL
LETTER "G" NO. 7-L.
BEAR
280
TITUSVILLE
403
SOLSTICE
NO. 4 LEVEL
S.L.
CAROLINE
8569-A
LEUCOSTICTE
5570
LETTER "G" NO. 11 (UNITY LEVEL)
CAIRO
11469
JAFFA
12122-A
LEYNER
Lorraine
S
N



MINERAL RESOURCES BRANCH - MINING DIVISION
REGION IV
BUREAU OF MINES

FIGURE 5 - PLAN AND SECTION MAP SHOWING DETAILS OF EXPLORATION RAISE, SHENANDOAH - DIVES MINING CO., SAN JUAN COUNTY, COLO. (DMEA 2991)



MINERAL RESOURCES BRANCH - MINING DIVISION
REGION IV
BUREAU OF MINES

FIGURE 7 - LONG SECTION OF NORTH STAR-MAYFLOWER VEIN, SHENANDOAH-DIVES MINING CO., SAN JUAN COUNTY, COLO. (DMEA 2991)

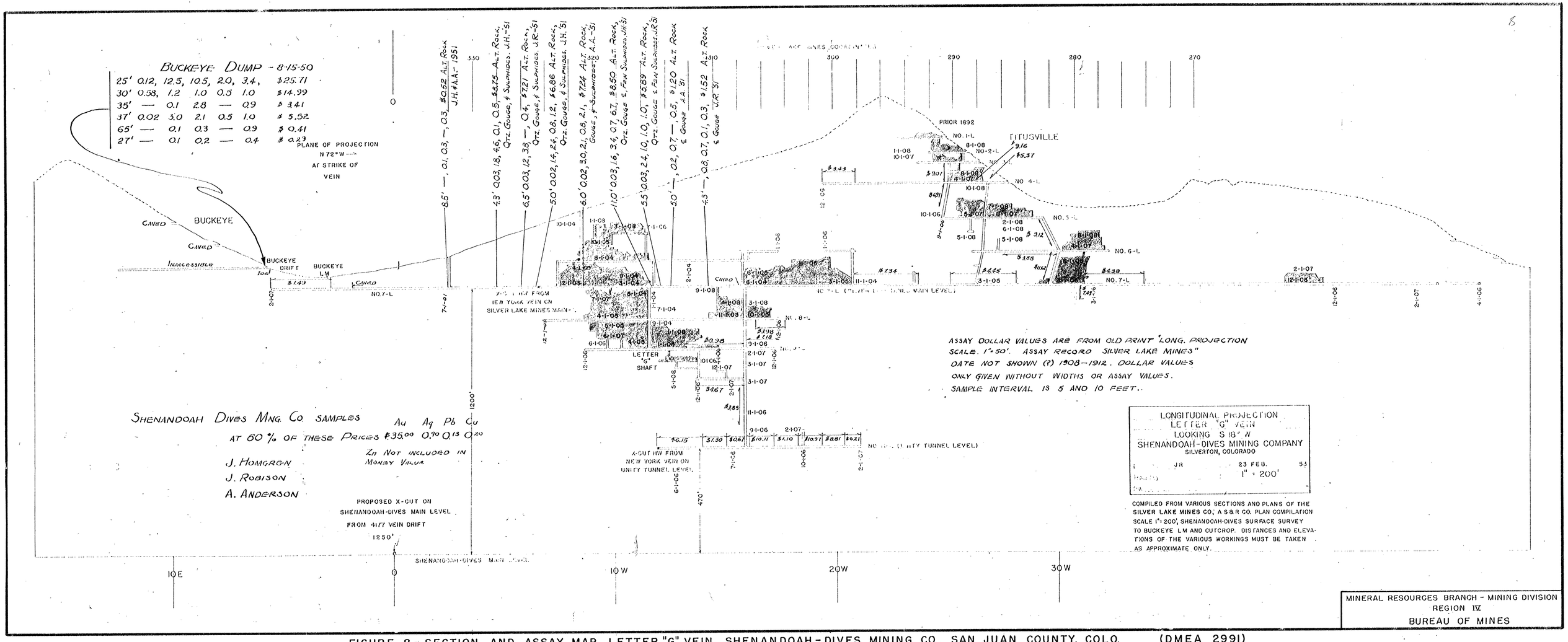
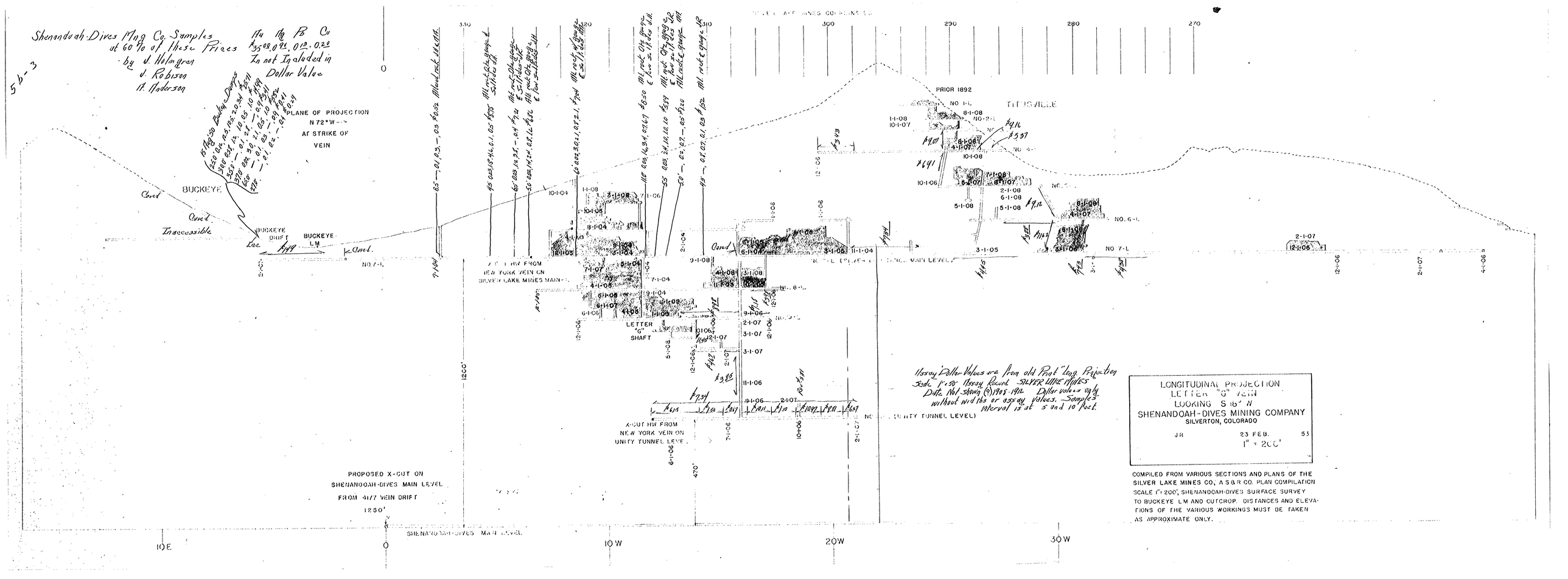


FIGURE 8 - SECTION AND ASSAY MAP, LETTER "G" VEIN, SHENANDOAH-DIVES MINING CO., SAN JUAN COUNTY, COLO. (DMEA 2991)


Shenandoah-Dives Mng Co. Samples at 60% of these Prices by J. Holmgren J. Robison H. Anderson
Au Ag Pb Cu
$35.00 0.02 0.12 0.22
In not Included in Dollar Value
PLANE OF PROJECTION N 72°W AT STRIKE OF VEIN
BUCKEYE
Caved
Inaccessible
BUCKEYE DRIFT
BUCKEYE LM
NO. 7-L
PRIOR 1892
TITUSVILLE
NO. 8-L
NO. 7-L
NO. 6-L
LETTER "G" SHAFT
X-CUT HW FROM NEW YORK VEIN ON SILVER LAKE MINES MAIN
X-CUT HW FROM NEW YORK VEIN ON UNITY TUNNEL LEVEL
(UNITY TUNNEL LEVEL)
PROPOSED X-CUT ON SHENANDOAH-DIVES MAIN LEVEL FROM 4177 VEIN DRIFT 1250'
SHENANDOAH-DIVES MAIN LEVEL
1200'
470'
10E
0
10W
20W
30W
Assay Dollar Values are from old Prat "Long Projection Scale 1"=50' Assay Record SILVER LAKE MINES Date Not Shown (?) 1905-1912. Dollar values only without wid ths or assay values. Samples interval 15' at 5 and 10 feet.
LONGITUDINAL PROJECTION
LETTER "G" VEIN
LOOKING S 18° W
SHENANDOAH-DIVES MINING COMPANY
SILVERTON, COLORADO
JR 23 FEB. 53
1" = 200'
COMPILED FROM VARIOUS SECTIONS AND PLANS OF THE SILVER LAKE MINES CO., A S & R CO. PLAN COMPILATION SCALE 1"=200', SHENANDOAH-DIVES SURFACE SURVEY TO BUCKEYE LM AND CUTCROP. DISTANCES AND ELEVATIONS OF THE VARIOUS WORKINGS MUST BE TAKEN AS APPROXIMATE ONLY.

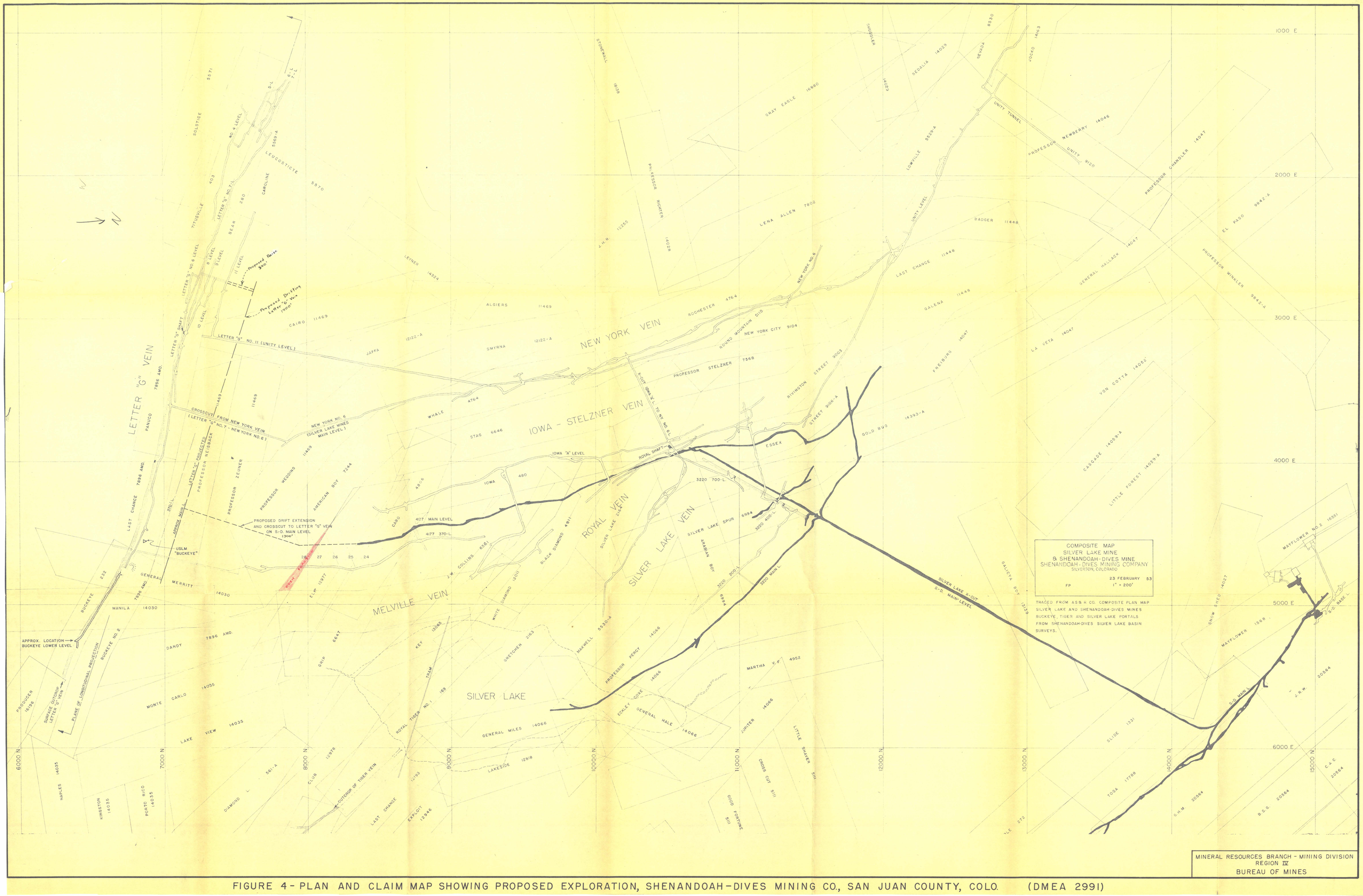


FIGURE 4 - PLAN AND CLAIM MAP SHOWING PROPOSED EXPLORATION, SHENANDOAH-DIVES MINING CO., SAN JUAN COUNTY, COLO. (DMEA 2991)

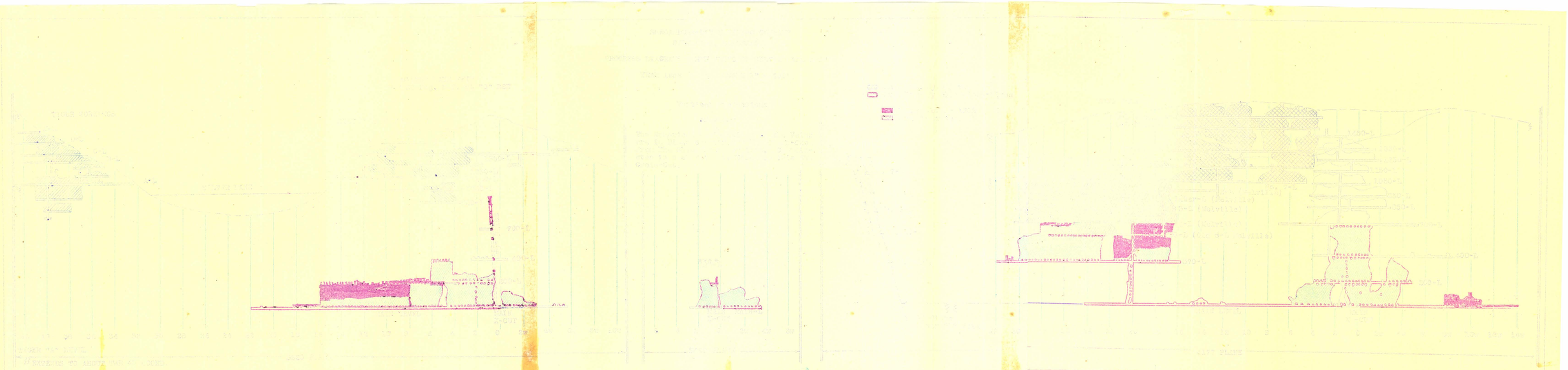
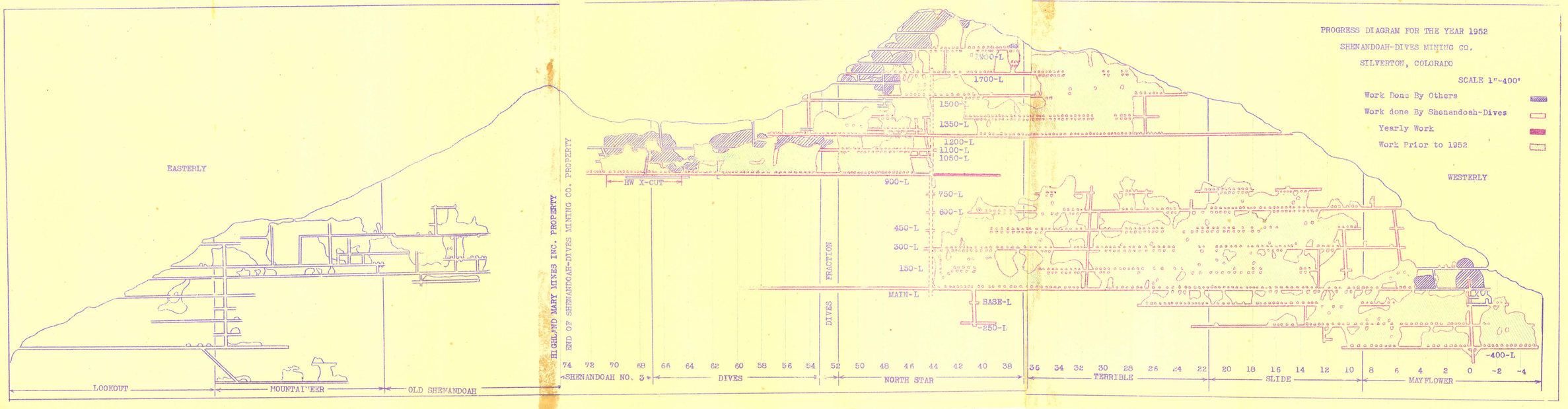
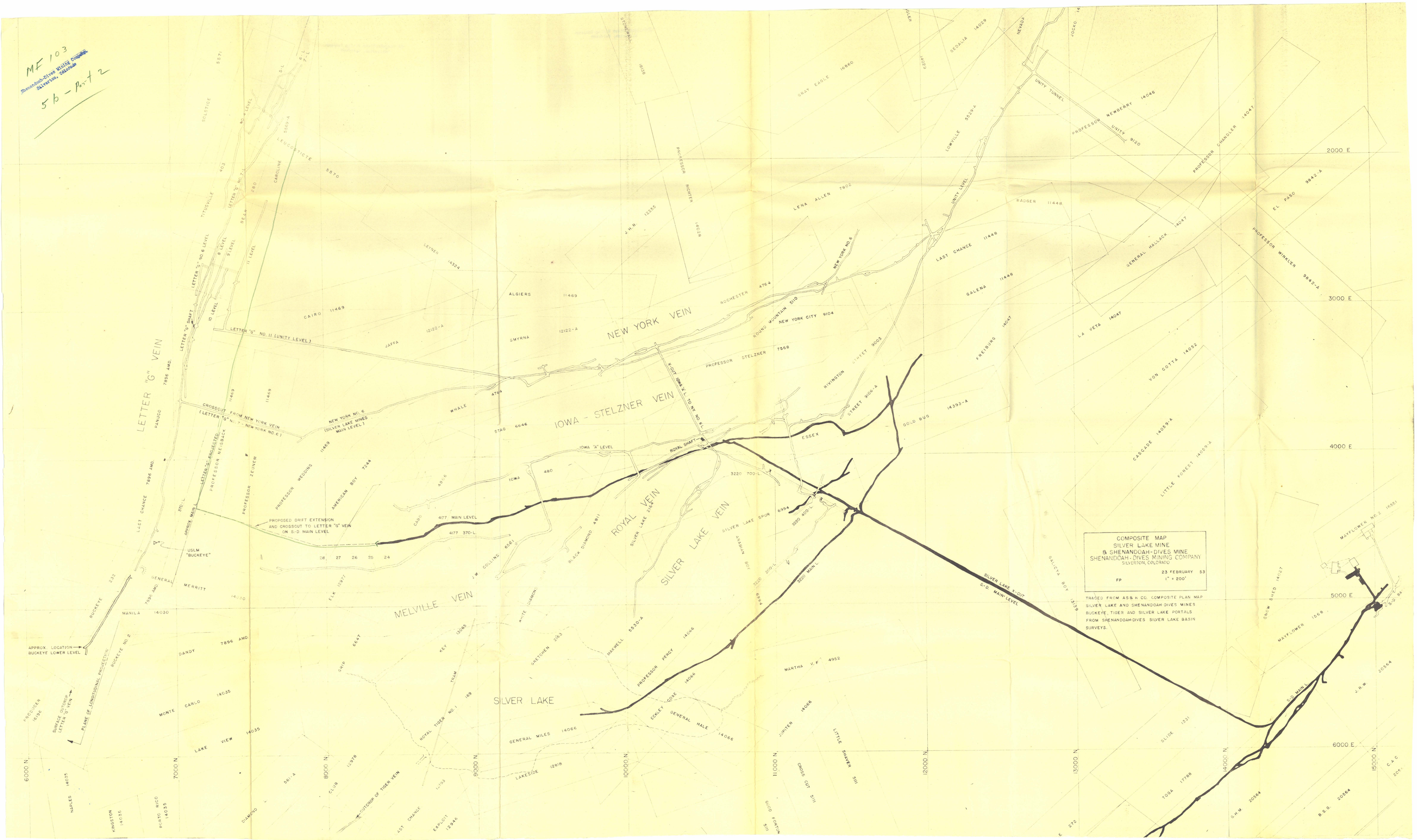


FIGURE 6-LONG SECTION OF 3220, 3490, AND 4177 VEINS, SHENANDOAH-DIVES MINING CO., SAN JUAN COUNTY, COLO. (DMEA 2991)

MF 103
5-6 Pt-1

MF 103
5-6 Pt-1

Shenandoah-Dayton Water Company
Alliance, Ohio
OPA2700 "Ohio Water Service Company"


PROGRESS DIAGRAM FOR THE YEAR 1952
SHENANDOAH-DIVES MINING CO.
SILVERTON, COLORADO
SCALE 1"=400'
Work Done By Others
Work done By Shenandoah-Dives
Yearly Work
Work Prior to 1952
EASTERLY
WESTERLY
HIGHLAND MARY MINES INC. PROPERTY
END OF SHENANDOAH-DIVES MINING CO. PROPERTY
1900-L
1700-L
1500-L
1350-L
1200-L
1100-L
1050-L
900-L
750-L
600-L
450-L
300-L
150-L
MAIN-L
BASE-L
250-L
-400-L
HW X-CUT
FRACTION
DIVES
74 72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 -2 -4
SHENANDOAH NO. 3
DIVES
NORTH STAR
TERRIBLE
SLIDE
MAYFLOWER
LOOKOUT
MOUNTAI'EER
OLD SHENANDOAH

MF 103
Shenandoah-Dives Mining Company
Silverton, Colorado
5b - Part 2