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REPORT ON THE

DEL MONTE MINE

BELONGING TO THE CAIN CONS. GOLD MINES CO.,

AURORA, NEVADA

SUMMARY.

The Del Monte mine is situated in the eastern portion of the Last Chance claim. It covers a segment of vein 600 feet long, limited on both sides by powerful faults.

The vein is developed by a cross-cut tunnel, and drifts, some 50 feet below the outcrop. The mouth of this tunnel is on the property of Sharpe & Bell.

This Del Monte vein is believed to be the same as the Last Chance vein, offset some 625 feet to the right by the Prospectus fault. The vein probably originated at the earliest period of quartz deposition, but was reopened and refilled during the later, gold-bearing period. The tunnel shows a number of small north-east faults, producing an offset of the vein to the left.

Sampling in the tunnel shows an ore-shoot 40 m. (135 feet) long, at the east end, averaging 1.21 m. (about 4 ft.) wide and having an average value of \$6.68; while the rest of the vein averages 0.9 m. wide, and \$2.03 in value. Should the ore-shoot go down to a vertical distance of 100 feet below the tunnel, we should have about 5,142 tons of \$6.68 ore, with a recovery value of about \$6.15. Assuming a total cost of \$5.00, there would be a profit of \$1.15 per ton, or \$5,913. However, it must be remembered that the samples taken were only 50 feet below the outcrop, and that in this district the effects of

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superficial enrichment commonly extend to 60 or 70 feet. It is possible, therefore, that there may be a decrease of values, going downward from the tunnel level.

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LIST OF ILLUSTRATIONS.

I Assay Plan of the Del Monte Tunnel

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LOCATION AND DESCRIPTION.

What is commonly called the Del Monte mine comprises the workings on a segment of the eastern portion of the irregular Last Chance claim. This portion of the claim covers a segment of vein about 600 feet long, striking about east and west, and dipping South 40° - 45°.

EXTENT OF DEVELOPMENT WORK.

The vein has been worked by open cut from the surface, and has been tapped by a cross-cut tunnel driven in on a level about 50 feet lower than the outcrop. On this tunnel level there has been considerable drifting. The vein has been partially stoped down to the tunnel level, but has not been stoped below.

The mouth of this tunnel, and the tunnel dump, is on ground of the Sharpe, Bell, and Stuart Estate group (see special report). The tunnel dump, comprising 800 tons of ore averaging \$7.10 (\$6.22 gold and \$0.88 silver) has been included in the estimate of Sharpe & Bell dumps.

GENERAL GEOLOGY.

The vein in the Del Monte mine is probably cut off on the east by a north-south fault, which appears in the Golden Fleece tunnel. This may be the Humboldt fault, which lies a short distance west of the Humboldt shaft. On the west it is cut off by a powerful vertical fault, which has a broad crushed

zone, on one side, of which are highly polished slickensided surfaces with horizontal striations. This is the Prospectus fault, which is encountered further north, in the upper tunnel of the Sharpe & Bell property. This has a strike of N.  $2^{\circ}$  E., and has an offset to the right, of several hundred feet, as shown by the Prospectus-Humboldt dislocation. On this account, and on account of the likeness of the veins, the Del Monte vein is believed to be the same as the main Last Chance vein, in which case the horizontal offset has been calculated at 625 feet. This is the most important fault noted in the district.

The vein probably originated in the earlier period of quartz bearing a relatively large proportion of silver; but was probably reopened and refilled during the later period of quartz carrying relatively more gold values (see general report on district). Comparison of assays shows that the ore has the gold and silver proportions of this later period, dump samples showing Au : Ag = 1 : 5.5 and four samples from the mine Au : Ag = 1 : 3.

The map of the tunnel level, accompanying, shows a number of small north-east faults, which strike about  $45^{\circ}$  to the great faults described, and have a movement resulting in an offset to the left. Some of these fault zones are so slight that the vein is simply bent along the direction of the fault, without separation, the bend simulating a fold; in other cases there is an actual dislocation.

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ASSAYS AND CALCULATION OF VALUES.DEL MONTE TUNNEL.

Sample No.	Au Gr.	Ag Gr	Au Val.	Ag Val.	Total Val.	Width
467	13.37	27	\$ 8.89	0.46	9.35 x 1.30	= 12.155
1181	3.50	15	2.31	0.25	2.56 x 1.55	= 3.968
1182	9.87	34	6.56	0.58	7.14 x 1.05	= 7.497
1183	9.00	38	5.98	0.65	6.63 x 1.35	= 8.9505
1184	13.25	62	8.81	1.05	9.86 x 1.00	= 9.86
1185	10.37	36	6.90	.61	7.51 x 0.90	= 6.759
1186	12.50	48	8.31	.82	9.13 x 1.60	= 14.608
1187	4.75	19	3.16	.32	3.48 x 1.30	= 4.524
468	7.25	17	4.82	.29	5.11 x 0.80	= 4.088
					10.85	- 72.4095
1188	0.50	4	0.33	.07	0.40 x 0.70	= 0.28
1189	1.50	6	0.99	.10	1.09 x 0.90	= .981
1190	1.00	4	0.66	.07	0.73 x 0.80	= .584
1191	0.75	4	0.50	.07	0.57 x 0.90	= .513
1192	2.87	8	1.91	.14	2.05 x 1.00	= 2.05
469	10.00	38	6.65	.65	7.30 x 0.90	= 6.57
1193	0.25	4	0.17	.07	0.24 x 1.20	= .288
1194	3.25	17	2.16	.29	2.45 x 1.25	= 3.0625
1195	1.25	18	0.83	.31	1.14 x 0.85	= .969
470	8.25	34	5.49	.58	6.07 x 0.50	= 3.035
1196	1.50	145	0.99	2.46	10) 9.00	18.3325
					0.90	

First ten samples in above table represent east end of drift-shoot 40 m. long.

Samples 1.21 \$6.68 average value ore-shoot 40 m. long

m. av width =  
3.9 feet

9) 18.3325  
\$2.03 ev. value western portion of vein.

Allow probable ore on ore-shoot 100' vertically down below level = 140' on vein = 42.5 m.

L high w. sp. gr.-  
40 x 4.25 x 1.21 m. = 2057 cu. m. x 2.5 = 5,142 metric tons.

DEL MONTE TUNNEL.

Au Val.	Ag. Val.
\$8.89	x 1.30 = 11.557
2.31	x 1.55 = 3.5805
6.56	x 1.05 = 6.888
5.98	x 1.35 = 8.073
8.81	x 1.00 = 8.81
6.90	x .90 = 6.21
8.31	x 1.60 = 13.296
3.16	x 1.30 = 4.108
4.82	x 0.80 = 3.856
<b>10.85</b>	<b>) 66.3785</b>

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CONCLUSION.

There is in the Del Monte an ore-shoot some 130 feet long, or more, with an average width of nearly 4 feet, an average value, on the tunnel level, of \$6.68, and an estimated recovery value of \$6.15. Assuming that this would be mined and milled at a total cost of \$5.00 per ton (which is a very low figure, under the circumstances) there would be a slight net profit, say \$1.15 a ton. Should the vein go down very far with these values, a fair tonnage could be developed and perhaps mined through the Prospectus tunnel, should this be driven in this far. It must be remembered, however, that the tunnel is only some 50 feet below the outcrop, and that in this district the effects of surface enrichment, increasing the original values, commonly extend for 60 to 70 feet. Therefore it is possible that there may be a decrease of values, going downward from the tunnel level. This should be carefully tested by experimental work before any work in depth should be undertaken.

The visible assets of the Del Monte vein, are therefore, very slight.

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by ORIGINAL SIGNED  
J. E. SPURR

August 1911.

REPORT ON

DUMPS OF LAST CHANCE HILL

BELONGING TO THE CAIN CONS. GOLD MINES CO.,

AURORA, NEVADA

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SUMMARY

On the ground belonging to the Cain Consolidated Gold Mines Company, on Last Chance hill, are many small dumps left by early miners. Some of these do not show pay ore-- those which have been averaged as follows:

Tons	Assay Value	Recov.	Est. Costs	Net Profit Value	Total Net profit per ton
6500	\$5.91	\$5.06	\$2.00	\$3.06	\$19,890.

The above profit is contingent on the existence of a large mill, which in turn depends upon the outcome of further investigations in the Humboldt Mine.

On the same hill there are certain stratified sands and gravels, largely volcanic sand and debris, roughly stratified by water action. There is a strong impression in the district that these sands and gravels are gold-bearing, and they were believed by Mr. Cain to form one of the valuable assets of Last Chance hill. Our assays, however, indicate that the material is without value.

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LIST OF ILLUSTRATIONS

- I Map Showing Dumps of Last Chance Hill
- II View Showing Dumps of Last Chance Hill; Del Monte  
Dump on Right
- III View Showing Dumps of Last Chance Hill; Village of  
Aurora in foreground

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GENERAL DESCRIPTION OF DUMPS

On the ground of Last Chance hill, belonging to the Cain Consolidated Gold Mines Company, are many small dumps left by small operators in the early exciting days of the camp's history. These have all been carefully sampled, and the individual dumps, with the assay numbers, are shown on the accompanying map. Some of the dumps do not show pay ore; for those which do, the sample number is underlined in red on the map. As will be seen, the dumps are small; yet if there were a mill at the mouth of the Prospectus tunnel, it would be a short down-hill haul, with a good wagon-road, from these dumps, and they probably could be handled at a profit.

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LIST OF ASSAYS

Number Sample	Au gr	Ag gr	Au Val.	Ag Val.	Total Value per ton	Metric tons in dump
(474	9.25	15	6.15	0.25	\$6.40	
					3.92 av.	225
(475	2.00	7	1.33	0.12	1.45	
476	1.00	11	0.66	0.19	0.85	
477	3.25	67	2.16	1.14	3.30	65
478	2.50	28	1.66	0.48	2.14	50
(479	7.00	89	4.65	1.51	6.16	
(480	2.00	48	1.33	0.82	2.15	350
(481	3.75	62	2.49	1.05	3.54	
482	3.00	71	1.99	1.21	3.20	75
483	3.50	61	2.32	1.04	3.36	90
484	6.00	65	3.99	1.10	5.09	
	13.00	97	8.64	1.65	10.29	120
485	1.00	8	0.66	0.14	0.80	15
486	0.50	4	0.33	0.07	0.40	
(487	0.25	7	0.17	0.12	0.29	350
(488	0.25	7	0.17	0.12	0.29	
489	0.25	7	0.17	0.12	0.29	35
490	13.75	61	9.14	1.04	10.18	
491	0.75	17	0.50	0.29	0.79	20
492	4.50	107	2.99	1.82	4.81	45
493	12.50	203	8.31	3.45	11.76	90
494	13.75	104	9.14	1.77	10.91	
495	1.50	34	1.00	0.58	1.58	120
496	0.50	12	0.33	0.19	0.52	40
497	8.00	88	5.32	1.50	6.82	100
498	0.50	12	0.33	0.20	0.53	65
499	trace	7	0.00	0.12	0.12	
500	0.25	10	0.17	0.17	0.34	12
501	1.50	22	1.00	0.37	1.37	30
502	1.00	39	0.66	0.66	1.32	60
503	5.50	168	3.65	2.86	6.51	115
504	0.25	9	0.17	0.15	0.32	25
(505	2.75	56	1.83	0.95	1.78	
(506	8.00	76	5.32	1.29	6.61	
(507	6.25	69	4.16	1.17	5.33	950
(508	7.00	60	4.65	1.02	5.67	
(509	4.75	77	3.16	1.31	4.47	
(510	5.50	80	3.65	1.36	5.01	
511	4.50	146	3.00	2.48	5.48	
512	9.50	292	6.31	4.96	11.27	48
513	18.25	159	12.14	2.70	14.84	20
514	2.00	60	1.33	1.02	2.35	50
515	1.50	27	1.00	0.44	1.44	60
516	5.25	114	3.49	1.94	5.43	40
517	4.75	96	3.16	1.63	4.79	65
518	8.50	80	5.65	1.36	7.01	55
519	4.25	40	2.83	0.68	3.51	150
520	2.25	22	1.50	0.37	1.87	50
521	trace	11	0.00	0.19	0.19	45
522	1.25	57	0.83	0.97	1.80	75

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Number Sample	Au gr	Ag gr	Au Val.	Ag Val.	Total Value per ton	Metric Tons in dump
523	3.00	105	2.00	1.78	3.78	70
524	8.00	210	5.32	3.57	8.89	110
525	5.25	148	3.49	2.52	6.01	65
526	0.25	5	0.17	.08	0.25	45
527	9.00	163	5.98	2.77	8.75	25
528	1.50	24	1.00	0.41	1.41	40
529	2.50	131	1.66	2.23	3.89	100
530	5.25	204	3.49	3.47	6.96	130
531	9.50	145	6.31	2.46	8.77	90
{532	5.50	97	3.65	1.65	5.30	
(533	5.00	86	3.32	1.46	4.78	250
534	11.50	236	7.64	4.01	11.65	60
535	4.00	128	2.66	2.18	4.84	115
536	5.25	64	3.49	1.09	4.58	80
537	1.50	26	1.00	0.44	1.44	90
538	5.50	53	3.65	0.90	4.55	40
539	3.00	50	2.00	0.85	2.85	150
541	8.75	122	5.82	2.07	7.87	35
542	5.50	122	3.65	2.07	5.72	140
543	4.50	108	3.00	1.84	3.84	65
544	9.75	173	6.48	2.94	9.42	50
545	1.25	126	0.83	2.14	2.97	85
546	0.50	17	0.33	0.29	0.62	80
551	9.25	275	6.15	4.67	10.82	55
559	27.75	89	18.45	1.51	19.96	60
560	37.75	154	25.10	2.62	27.72	125
561	7.75	86	5.15	1.46	6.61	100
562	4.25	55	2.83	0.93	3.76	100
563	0.50	8	0.33	0.14	0.47	40
564	2.50	65	1.66	1.10	2.76	90
565	0.50	5	0.33	0.08	0.41	60
566	0.50	4	0.33	0.07	0.40	80
567	0.50	5	0.33	0.08	0.41	40
569	trace	3	0.00	0.05	0.05	65
573	5.00	134	3.32	2.28	5.60	130
575	1.25	22	0.83	0.37	1.20	100
576	1.75	40	1.16	0.68	1.84	100
577	1.75	41	1.16	0.70	1.86	55
578	8.00	101	5.32	1.72	7.04	30
579	6.25	34	4.16	0.58	4.74	100
580	7.50	54	4.98	0.92	5.90	160
581	1.25	11	0.83	0.19	1.02	75
582	1.75	10	1.16	0.17	1.33	30
599	4.25	46	2.83	0.78	3.61	40
600	4.25	121	2.83	2.06	4.89	125
601	10.00	60	6.65	1.02	7.67	60
602	15.25	96	10.14	1.63	11.77	100
609	trace	4	0.00	0.07	0.07	50
610	trace	6	0.00	0.10	0.10	40

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Sample Number	Au gr	Ag gr	Au Val.	Ag Val.	Total Value per ton	Metric Tons in dump
611	6.00	14	3.99	0.24	4.23	60
612	0.25	14	0.17	0.24	0.41	25
613	0.25	10	0.17	0.17	0.34	85
614	2.25	85	1.50	1.43	2.93	225
615	3.50	37	2.32	0.63	2.95	375

PAY-ORE

The pay-ore samples are segregated in the following table:

Number Sample	Au gr	Ag gr	Tons rep- re- sen- ted	Au Gram Tons	Ag Gram Tons
474)	5.62	17	220	1236.40	3740
475)	3.25	67	65	211.25	4355
477	2.50	28	50	125.00	1400
478	4.25	66	350	1487.50	23100
481)	3.00	71	25	75.00	1775
482	3.50	61	75	262.50	4575
483	6.00	65	90	540.00	5850
484	13.00	97	120	1560.00	11640
485	13.75	61	35	481.25	2135
490	4.50	107	45	202.50	4815
492	12.50	203	90	1125.00	18270
493	3.75	104	170	637.50	17680
494	8.00	88	100	800.00	8800
497	5.50	168	115	632.50	19320
503	5.71	70	950	5424.50	66500
505)					
506)					
507)					
508)					
509)					
510)					
511	4.50	146	75	337.50	10950
512	9.50	292	40	380.00	11680
513	18.25	159	20	365.00	3180
514	2.00	60	50	100.00	3000
516	5.25	114	40	210.00	4560
517	4.75	96	65	308.75	6240
518	8.50	80	55	467.50	4400
519	4.25	40	150	637.50	6000
			2995	17607.15	243965

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Sample Number	Au Gr	Ag Gr	Tons repre- sented	Au Gram tons	Ag Gram tons
F'wd			2995	17607.15	243,965
523	3.00	105	70	210.00	7,350
524	8.00	210	110	880.00	23,100
525	5.25	148	65	341.25	9,620
527	9.00	163	25	225.00	4,075
529	2.50	131	100	250.00	13,100
530	5.25	204	130	682.50	26,520
531	9.50	145	90	855.00	13,050
532)	5.25	91	250	1312.50	22,750
533)					
534	11.50	236	60	690.00	14,160
535	4.00	128	115	460.00	14,720
536	5.25	64	80	420.00	5,120
538	5.50	53	40	220.00	2,120
539	3.00	50	150	450.00	7,500
541	8.75	122	35	306.25	4,270
542	5.50	122	140	770.00	17,080
543	4.50	108	65	292.50	7,020
544	9.75	173	50	487.50	8,650
545	1.25	126	85	106.25	10,710
551	9.25	275	55	508.75	15,125
559	27.75	89	60	1665.00	5,340
560	37.75	154	125	4718.75	19,250
561	7.75	86	100	775.00	8,600
562	4.25	55	100	425.00	5,500
573	5.00	134	130	650.00	17,420
578	8.00	101	30	240.00	3,030
579	6.25	34	100	625.00	3,400
580	7.50	54	160	1200.00	8,640
599	4.25	46	40	170.00	1,840
600	4.25	121	125	531.25	15,125
601	10.00	60	60	600.00	3,600
602	15.25	96	100	1525.00	9,600
611	6.00	14	60	360.00	840
614	6.25	85	225	506.25	19,125
615	3.50	37	375	1312.50	13,875
			6500	42378.40	605,190

Delivered by Mr. Cain to you on Oct 20, 1942  
 $42378.40 \div 6500 = 6.52$  grams Au Average  
 $605,190 \div 6500 = 0.93$  grams Ag

MATERIAL IS WORKING WELL.

SPURR & COMPANY

6

SUMMARY OF VALUES AND PROFITS

Tons	Av.	Av.	Assay	Assay	Total	Total Gross
Au	Ag	Value	Value	Assay	Value	Value
Gr	Gr	Au	Ag	Value		

6500	6.52	93	\$4.33	\$1.58	\$5.91	\$38,415.
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60% Recovery

Recovery Value Au. \$4.33 x 95% = \$ 4.11

" " Ag. \$1.58 x 60% = 0.95

Total Recovery Value \$ 5.06

Estimated Total Costs 2.00

\$ 3.06 estimated net profit  
per ton x 6500 tons = \$19,890 total net  
profit.

There are indications on the property of Last Chance Hill

STRATIFIED SANDS AND GRAVELS

On Last Chance hill there is in places a deposit of stratified sands and gravels. The origin of these deposits is evidently volcanic, and they probably represent explosive deposits attendant upon the great basalt eruption, classified and worked over and roughly stratified by surface waters.

There is a strong impression in the district that these sands and gravels are gold bearing, and they were believed by Mr. Cain to form one of the valuable assets of Last Chance Hill. Our assays, however, indicate that the material is without value.

August 1911

SPURR & COMPANY

List of Assays

Sample Number	Au Gold grams	Silver grams
616	trace	6
617	trace	3
618	trace	1
619	trace	4
620	trace	3
621	0.25	3
622	trace	2

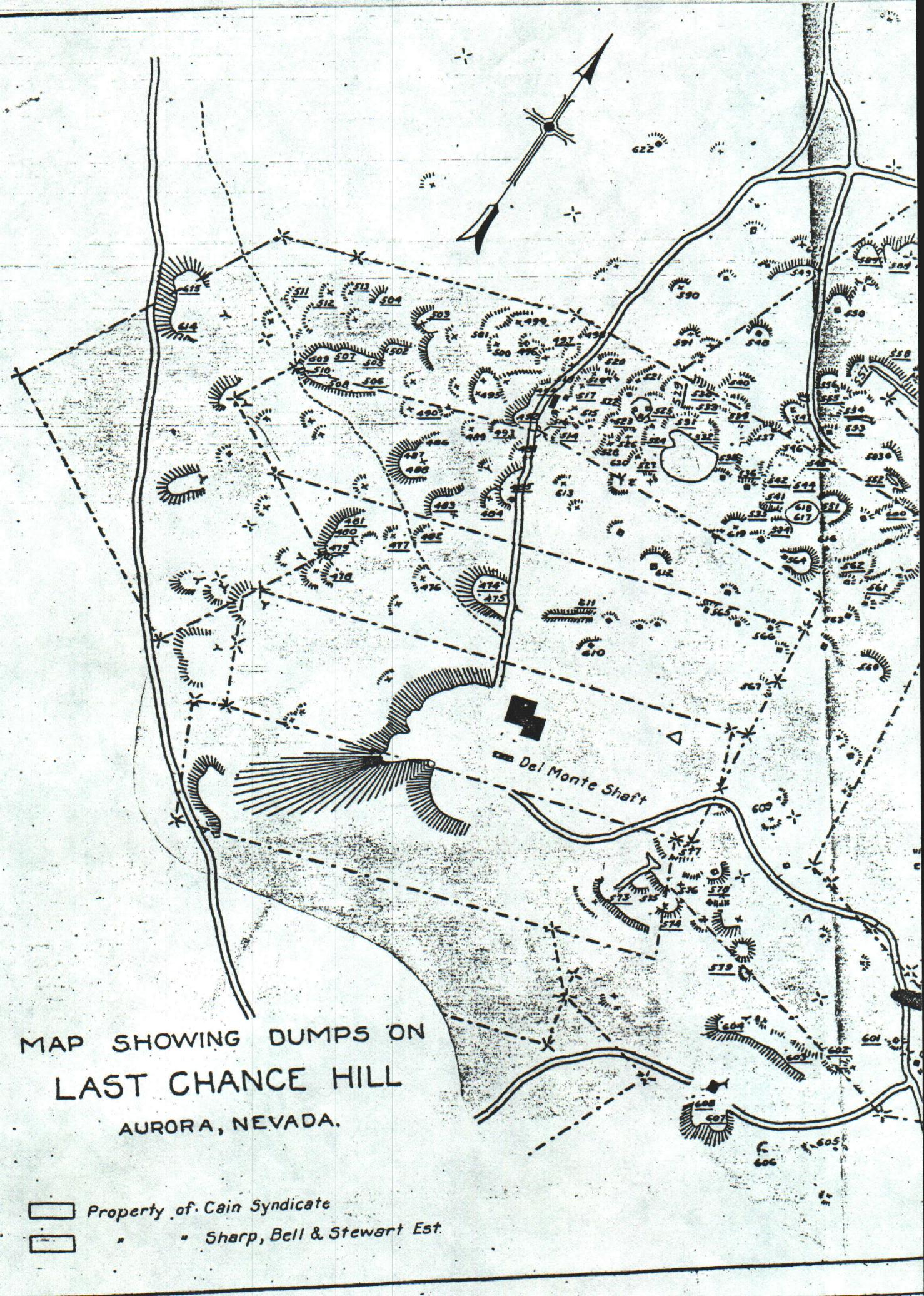
CONCLUSION

There are therefore on the property of the Cain Consolidated Company, on Last Chance Hill, 6,500 tons of Dump ore, with a total assay value of \$5.91, and an estimated possible net profit of \$3.06 per ton, with a total profit of \$19,890. This net profit would only be available if a large and efficient mill were in operation; otherwise these dumps are of little or no value. The realization of these profits therefore depends upon the outcome of the Humboldt Mine, which is the only one of the group affording a possibly large tonnage of milling ore, such as would justify the erection of a mill.

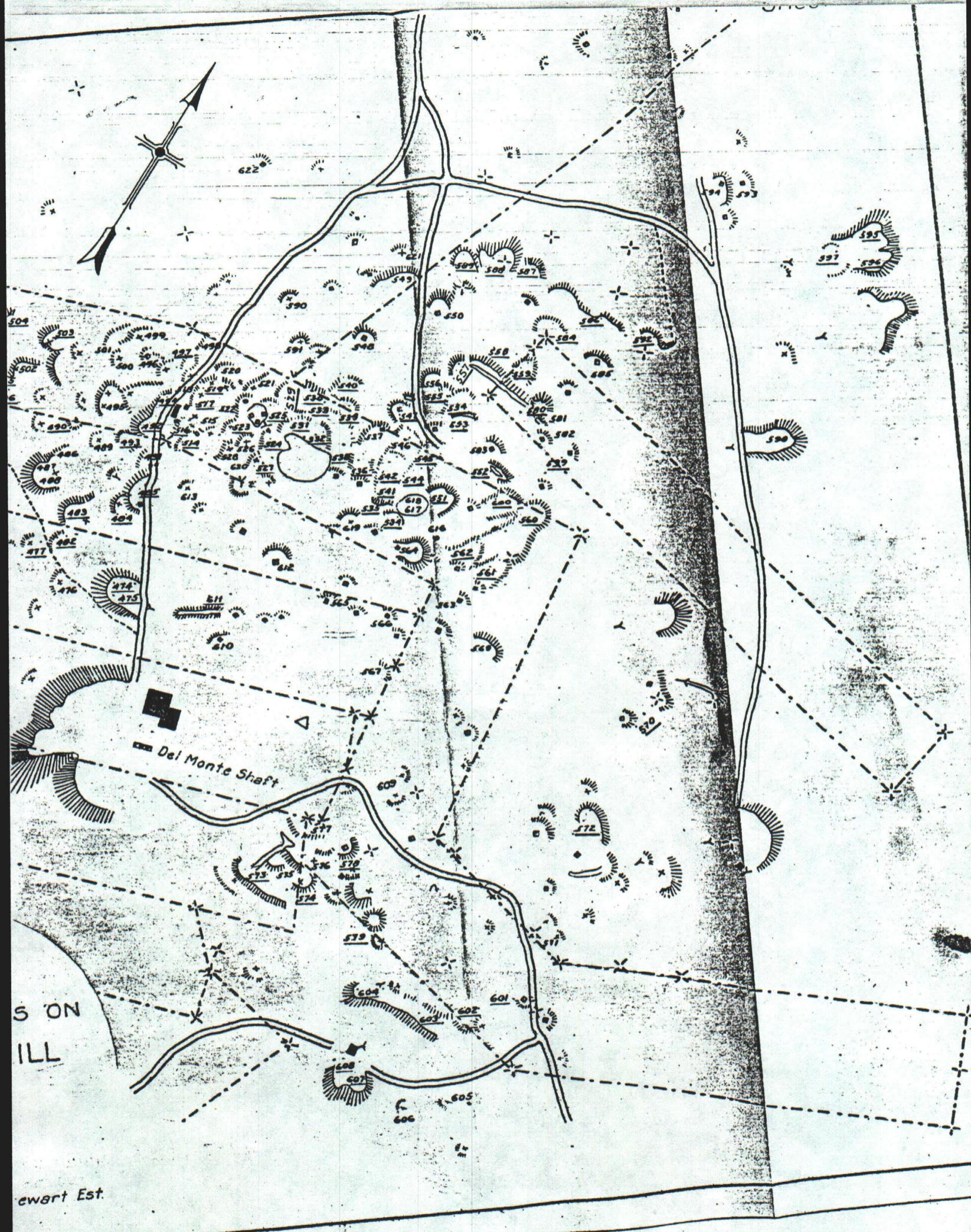
LAST CHANCE SPURR &amp; COMPANY

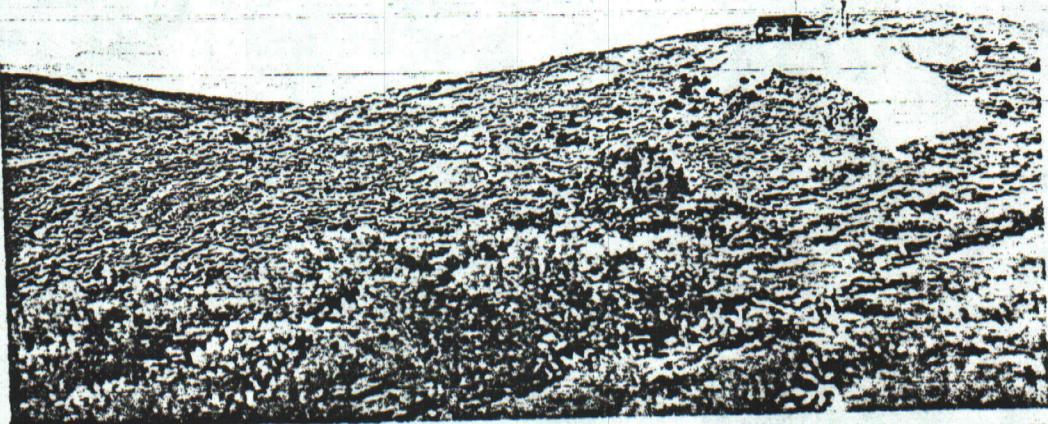
ALLEGRA, NEW MEXICO  
by ORIGINAL SIGNED  
J. E. SPURR

August 1911

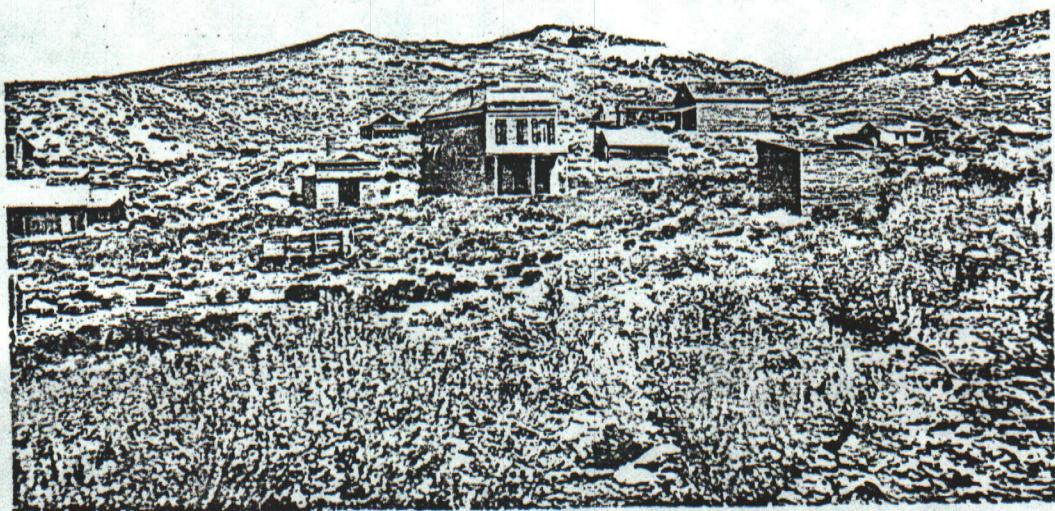


MAP SHOWING DUMPS ON  
LAST CHANCE HILL  
AURORA, NEVADA.





II View Showing Dumps of Last Chance Hill; Del Monte Dump  
on Right



III View Showing Dumps of Last Chance Hill; Village of  
Aurora in Foreground