producers and along which several | of the largest ore bodies of Bingham have been developed. The bedded yeins strike in general east and west and dip to the north. The fissures are tical, cutting through each bedded vein and intervening quartzite and strike in general north and south.

The company has quietly acquired much of its territory during the past year; the latest acquisition being the Highland Boy Consolidated group.comprising about 75 acres. This was an important purchase and leaves no doubt as to the future greatness of the prop-erty. The Highland Boy Con. has erty, the indicate wealth in the produced considerable wealth in the past and has a record of output mounting to \$363,000, above the erty.

States ore. The properties are under the general mounting to sulphide zone, and a good many thoussuperintendency of Clarence E. Allen.

soon be cleared up and the dividend paying era reached. The Bingham mines of the United

States conpany have over 20 miles of underground workings and sufficient ore developed above the tunnel levels to supply the smeller for a half dozen years to come. The ore produced is the under Bingham subbidge and is trans-The old tunnel workings will not be utilized, but a new one has been start-ed at the lower end of the property, at which will be established the principal mine works. The property will be op-erated in several ways, and the cost of mining reduced to a minimum; the cayyears to come. The ore produced is the typical Bingham sulphides and is trans-ported from the mine to the railroad station in lower Bingham over an aerial tramway 17,000 feet long; 13,000 feet be-ing main line and 4,000 feet additional on the line from the mine to the load-ing station. The buckets used have a capacity of nine cubic feet and when level full carry 1,780 pounds of United States ore. mining reduced to a minimum; the cay ing system will be employed; where the ore extends up to the surface it will be quarried and no doubt steam shovels will play an important part in the op-erations where the ground is soft and they can be u^elized to advantage. This mine is retainly one of the biggest things in Bingham.

Utah indicated that the ore will concen-trate 15 into 1 and that a gallon of wa-ter per minute will be required in the reduction of each ton of ore per day; making a 25 per cent copper product, in addition to gold values of from \$7 to \$8 to the ton. A little better than 89 per cent of the values of the ore is saved in concentration. saved in concentration.

The officers of the company are C. M. The officers of the company are C. M. MacNeill, president; C. L. Tutt, vice president; Spencer Penrose, secretary-treasurer; F. A. Gillespie, assistant secretary-treasurer; D. C. Jackling, general manager; Frank G. Janney, su-perintendent, The beard of directors is composed of C. M. MacNeill, Spencer Penrose, R. A. F. Penrose, Jr., Chas. L. Tutt, D. C. Jackling.

BINGHAM CONSOLIDATED MINES.

The Bingham Consolidated is one of the largest and strongest corporations operating in Bingham; the territory owned and controlled by it aggregat-ing more than 300 acres.

The original corporation was the Bingham Copper & Gold Mining com-pany, which acquired the old Commer-clai, Old Hickory and Vernard claims. It was found that better results could be obtained if more sulphide ores were available, and, to accomplish, this, and to increase the acreage, the Dalton & Lark mines and other groups were purchased in the spring of 1901, and about that time the present corporation about that time the present corporation was organized.

Like the Highland Boy, belonging to the Utah Consolidated, the properties of the Bingham Consolidated were lead of the Bingham Consolidated were lead and gold producers in the carly days of their existence, and like them, the ores changed with depth to copper. But unlike them, some of the mines were opened by incline shafts instead of tunnels. This was particularly true of the Dalton & Lark, where a shaft was run to the depth of about 1,000 feet, the Brooklyn shaft was dropped 1,600 feet and the Lead mine to 800 feet. These workings were very wet and the expense of pumping enormous. During the past two years, however. expense of pumping enormous. During the past two years, however, this trouble has been overcome by the completion of a long drain tunnel, which, from its mouth to the bottom of the Dalton & Lark shaft, is about \$,000 feet in length. This will be the avenue of exit for the ores of the Dalton & Lark and nearby mines. From the mouth of the tunned

ores of the Dalton & Lark and nearby mines. From the mouth of the tunnel the product will be hauled over the lines of the Rio Grande railroad to the com-pany's smelter at Bingham Junction. The mines of the Bingham Consoli-dated are shipping about 400 tons daily from its Bingham properties. The Commercial mine is contributing 250 tons of this amount, and the balance comes from the Dalton & Lark prop-erties. The ores of the Commercial, which is located in upper Bingham can-yon, are conveyed over the tracks of the Copper Belt railway to lower Bing-ham, thence over the Rio Grande to ham, thence over the Rio Grande to the smelter.

No doubt the tonnages from the Bingham properties will be materially in-creased soon, as the completion of the drain tunnel of the Dalton & Lark will make more ore available from that source

Besides the shipping grade of ore there is in the snipping grade of ore, there is in the mines a large quantity of milling ore which is being devel-oped with a view of building a con-centrating mill when the ore reserves are opened to the extent that will jus-tify the expenditure tify the expenditure.

In September of the present year the irain tunnel tapped the district which has caused so much trouble on account of water in the past. The waters im-mediately began to recede and the man-agement was enabled to go ahead with the development of virgin ground in the Dalton & Lark and Brooklyn prop-erties; most gratifying results have

mineralization of a soft friable por-phyry. The values are in chalcopyrites averaging about 2.5 copper, .03 gold and a small amount of silver; but higher grade sulphides are produced. The old tunnel workings will not be utilized, but a new one has been start-ed at the lower end of the property, at mine works. The property will be or-erated in several ways and the property will be or-erated in the property will be or-erated in several ways and the property will be or-erated in several ways and the property will be or-erated in the property will be or-erated in the property will be or-erated the property will be or-erated in the property will be or-erated the property will be

have been conducted in a business-like way, its officers are composed of men of abilify and standing, and on the whole they make up a combination which inspires confidence.

The property of the company is the of of access, the main workings being not to exceed three-fourths of a mile from the Grande railway station. It the Rio Grande railway station. It from the extreme eastern end of the covers an area of 75 acres, all of which group where large copper ore bodies

The company is planning to conduct a more vigorous campaign than ever next year, and will direct its energies in opening the mine upon a greater scale. At the last meeting of the direcgreater

tors, the management was directed to commence the running of a long tunnel to explore the ore bodies below the

water level. The bore will be started from the extreme eastern end of the



¹ NEW YAMPA SMELTER, NEARING COMPLETION.

ands since the latter was opened. The formation is similar to that of the Utah Consolidated and Yampa, and covers a goodly portion of the bedded vein system so systematically developed in the Yampa. These beds ly productive of copper. These beds are principal-

The company has also acquired the York and Copperfield groups, also pro-ducers which have a record of more than 6,000 tons of first class ore. The formation in these properties consists largely of the quartzite, lime and porphyry combination, so general in the camp, and the ore mined is galena, lead carbonates ind chalco pyrites. The highest bedded vein on Utah-Apex ground is in the York, which has yielded its riches in galena or silver-lead bearing ore in general. Little attention was paid to copper until re-cent years; however, this zone is yet undeveloped, but is expected to cut an important figure in the future.

Under the York, at a vertical depth f about 250 fect is the Parnell bed, arallelling the former in strike and dip. It is in this bed that the High-land Boy Consolidated conducted its principal development work. In the meantime this bed was being developed by the Utah-Apex and, before consoli-dation, the two companies had blocked out a great amount of ore. Copper pre-dominates here, with some attending values in sliver and lead. In the Parnell and Smilax tunnel workings ore has been developed to the extent that a body is shown to be 900 feet what is known as the Louisa fissure. About 125 feet under the Parnell, is

UTAH COPPER COMPANY. No transaction involving the transfer of miting properties is of more impor-tance to Bingham than the sale of the De Lamar-Wall group to the Penrose-MacNeill syndicate a few months ago, and which resulted in the formation of the Utah Copper com-Fortunate, indeed, was this strong

combination of capitalists to have as-sociated with them just at that time Mr. D. C. Jackling, the present general manager of the company, and who holds a similar position of trust with the United States Reduction & Refining company of Colorado, which institution s owned and operated by the same

The state of Utah, likewise, was for-tunate in the coming of these gentle-men; who are doing their share towards the building up of a Greater Bingham. They came prepared to spend their money by the hundreds of thousands of dollars: they are doing it and evidences of this are shown in lower Bingham canyon, where a giant concentrator is under construction and which will ul-timately grow into proportions equal, if

not greater than any other milling plant in the west. The property acquired by the Utah Copper company is unlike most other mines in the camp for the reason that the or-s are readily susceptable to concentration, while in most cases Bing-ham eves will not concentrate at all. The property consists of an immense that a body is shown to be an average of deep, 600 feet wide, with an average of three feet in thickness, of silver and gold bearing copper ore carrying a high percentage of iron, in all about 200,000 tons, of the typical Bingham pyritic smelting ore. Near the center of this ore chute the values run higher in gold than any other ore body of the same character in the district. The Western boundary of this ore chute has not, as yet, been reached, but it probably ex-tends from 100 to 200 feet further, to put down in numerous places to a ver-tical depth of 400 feet; 13 tunnels were About 125 feet under the Parnell, is the Andy bedded vein, apparently par-allelling it in strike and dip, which has been opened up from the Craig, or lower tunnel. The ore body running from 5 to 10 feet wide and containing copper fron ore. It appears to be much thicker than the upper ones, but is not yet fully developed. The underuntil he concluded to retire from min-ing entirely, when his interests were thrown upon the market. With this an-nouncement Mr. Jackling was able to gather in the property at a satisfactory price for his associates.

The ore will be delivered to the con-centrator over the tracks of the Copper Belt and the Rio Grande railroads. The Utah Copper company's concen-

trator will be strictly modern in all its appointments. The initial plant will have a capacity of 500 tons per day, but have a capacity of 500 tons per day, but the building is so arranged that by the installation of additional machinery it can easily be raised to double the amount. There is little doubt but that this will be done and, if it is found that the available water supply will warrant it, additions will be built. To guard against a shortage, the company sev-eral months ago secured an option on eral months ago secured an option or large springs near the old bathing re-sort of Garfield beach, so if need be

a plant capable of handling as much as 3,000 per day tonnage will be erected at that point. Manager D. C. Jackling contemplates operating the mines on this enormous scale and intends to supply them with milling facilities. The plant now under construction will be ready to go into commission early in the complex provides the second se the coming year and by the time it is completed will represent an outlay of close to a quarter of a million dollars. close to a quarter of a million dollars. It is built in very compact form: the boller house, 36x100 feet in dimensions, 1 contains four batteries of two bollers each, capable of supplying from 600 to 800 horsepower. The crushing depart-ment occupies space in the building 26x 44 feet in length and breadth and 85 feet in height.

feet in height. By way of explanation, the ore is de-

is patented ground. Like most all other | are known to exist and which will be mines in the camp, it is developed by tunnels, the longest being the Butler, which has been run to the length of 2,100 feet. There are drifts from this aggregating in all probably 1,000 feet; raises to the extent of 600 feet, and also three winzes amounting to 170 feet. The workings of the Liberal tunnel are not its length being approximately 900 feet.

The Butler vein is the only one on the property that has been explored and it was cut by the Butler tunnel. It is from this source that the present ex-traction is being made, and the vein's mond of production of the bein's the property that has been explored and it was cut by the Butler tunnel. It is from this source that the present ex-traction is being made, and the vein's record of production since being opened

depth and provide at least 400 feet of stoping room on the dip of the ven. It is also the intention to continue the tunnel under the Leona claim where over 1.200 feet on the dip of the veir will be secured. The company has not attempted here.

tofore to explore the copper bearing zones, but the work of leasers has

Bingham is almost entirely free of "wild cat" propositions, and in nearly every instance mining is being conducted along legitimate lines.



ghegan, M. I. Friedman and J. H. Patdeveloped by this means. The tunnel will also tap the Butler vein at greater terson, are directors.

OTHER GOOD PROPERTIES.

In Markham guich are other good roperties, among them being the Mys-ic Shrine and Eric.

The Nast and Benton, operated by the New England Gold & Copper company in upper Carr Fork, is another prom-ising group, and the Bingham Copper Boy is still another which is likely to make good account of itself before very long.



11

supments made by the company during the year consisted of high grade silver-lead ore, also a large quantity of concentrates. The low grade ora from which the latter was derived was reduced in the Dewey mill in lower Bingham. The expense of operating the nine is light compared to some other properties. roperties.

The officers of the Butler-Liberal the officers of the Butter-Liberal company are: A. L. Jacobs, president and general manager; C. N. Strevell, vice president; W. S. McCornick, treas-urer; E. D. R. Thompson, secretary, Excepting Mr. McCornick, the officers, along with Ls U. Colbath, Joseph Geo-

ton ore. It appears to be much than the upper ones, but is tfully developed. The under-workings of the Utah-Apex are about three miles in extent. During the past year the company has

ted its time largely to the explor-of its ground and in the acquisinew and valuable territory. No insequence was shipped, but the Il soon be in shape for steady on. The properties are located g the Yampa and Utah Consol-

adjoining the Yampa and Utah Consol-idated in Carr Fork canyon. The company is one of the best fin-incel of any operating in Bingham, which is a strong factor, there being a number of Boston, New York and London capitalists playing an important part in the organization and ranagement of the corporation. The local affairs of the company are in such ands: the manager being Wal-ter Corem, of Salt Lake City, who gives his personal attention to the direction of work at the mines. He is conserva-tive, experienced and competent, and is rapidly achieving an enviable repu-tation as a bonanza getter. It is the intention of the company to immediately equip its mines for opera-

t is the intention of the company to mediately equip its mines for opera-a upon a much larger scale than etofore and a deep tunnel will be i to cut the ore bodies at great th. When this is accomplished the magement expects to have ore re-ves available equal to any other be in the camp. The fact that large pinents have already been made, and t there is already a vast quantity ore in sight those directly interested i see their greatest expectations liked. The company had a capital ck of 500,000 shares of a par value at each.

UNITED STATES MINES.

The United States Mining company possession of about as great age as any corporation in Bing-It owns 1,100 acres of patented and res of unpatented ground at the of Bingham canyon, and includes Jordan, Telegraph and Niagara the early history of the camp an locations were among the eded in the state. L. E. Hol-her of the present managing of the company, owned the

If the company, owned the mines and operated them By He in turn sold out to a unpany in 1878; the latter it only for a short time, atliantion of the United States was conceived by A. F. Hol-managing director, and it mplished after the consolida-ne properties mentioned was a few years ago. Later, the a few years ago. Later, the dal-Eureka mine in Tintic, was over, the smelter at Bingham n built, whereupon the en-was safely and successfully d. The encoder exprise was safely and successfully launched. The smelter has been in operation a little over one year. Four furnaces are in operation. The plant is treating from \$00 to 1,000 tons of ore daily, 600 tons of which comes from the mines at Bingham. During the year the company has been earning at the rate of \$100,000 monthly, the out-put of copper bullion being from 706,000 to \$90,000 bounds per month. At this state the company's indebtedness will

The tunnels and drill holes referred to opened an area of territory 2,000 by

STOCKS.

livered into the crushers by means of a belt conveyor from the crude ore bins, and is reduced to about three-quarters mesh, on passing through two Gates machines. After going through this or-deal the ore is then delivered to the fine crushing department, 160 feet away, by means of another belt conveyor, red into the crushers by means o by means of another belt conveyor, passing over the top of the building. In this department the ore is successively reduced to about 30 mesh by means of Gates rolls and Chillian mills. The size Gates rolls and Chillian mills. The size of the fine crushing department is 26x 100 feet and in height the room is 60 feet. Continuing its journey, the ore, after leaving the fine crushing depart. ment passes on to the Wilfley table room, 240x50 feet, containing 35 Wilfleys and five tables of other makes, the lat-ter to be installed for experimental purposes. From here the ore passes on to the vanning machines, occupying a room 24x240 feet, thence into the con-centrate bins when the product is ready centrate bins when the product is ready for shipment. A large Corliss engine drives the main machinery of the plant, supplemented by several auxiliary en-

gines,

st gratifying results have been obtained and immense new ore reserves are being rapidly made avail-able. All the ore extraction from these groups has been carried on through the old workings up to Nov. 1 last.

During the past 11 months the companys' smelter at Bingham Junction has treated 103,475 tons of dry ores from its Bingham properties, and during the same period has handled 53,718 dry tons of custom ores, making a total tonnage of 156,718. The copper bullion produced in that time aggregated 8,017,-684 pounds.

BUTLER-LIBERAL MINES.

BUTLER-LIBERAL MINES. The Markham Gulch section of Bing-ham is a good one. But it has not had the attention paid to it that has been given to upper Bingham canyon and Carr Fork. However, this portion of the district is coming to the front and has lately attracted renewed interest on account of the progress made by the management of the Butler-Liberal Con-solidated Mining company. There are few mines anywhere in the state that can come up to the record made by this young bonanza, which closes the year with more than \$20,000

to opened an area of territory 2,000 by The water supply comes from the old made by this young bonanza, which s,000 feet, demonstrating a uniform shaft, used by the West Mountain Pla-

LATEST VIEW OF BINGHAM CONSOLIDATED SMELTER.

HIGH AND LOW PRICES ON THE SALT LAKE STOCK AND MINING EXCHANGE DURING THE YEAR.

(Table Compiled for the Christmas "News" by Prof. W. H. Tibbals.)

In this table the high and low prices are given for the sales on the dates named. When there were no sales the highest overing and lowest bid are given and indicated by the asterisk *. January February March April May

BIOCKO,		16th. 12th.		16th. 16th.			May June 15th. 15th				July		August		September		October		November		December			
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Silver KingP.	*78.00	*.26%	.2714	.26	.2714	.2744	a. 27%	*.26%	.25%	.25%			DATE OF		.10	,09 [a a a a a a a a a a a a a a a a a a a	*.11	*.09%		assess		9,10	3120
Silver ShieldB.	1 1 2 2 2 2 1		*80.00			70.00	*75.00 *	70.50		*70.00		-24%		2314	* 24%	*.23	.2812	,28%	.27	,2654	.25	.2316		1 X 3 K 3 A 4
South SwanseaT.	*.06	*.05%	*.06	*.04%	*, 10	*,0754	*.12	*.06	.08	.0746		.50	1.			a link kara	a a manufactural	anter and	*71.50	manuel		50.00	23.00	23-8
Star ConsolidatedT.		*.165%	.27%	,2734	*,22	*,205%	4,22	*.1716	.21	.20		.05		*.07	^a .10 -	*.07	.*.14	*.1236	*.13	montal	M. 1. M			59.00
SwanseaT.	.11	.11	diam.	.11	*.10	*.04	.14	.14	.3236	.29		17%		*.16	.0912	.0912	.10%	.1034	*,12	*.07	AL 1.10 1.	000 6444	*.07%	*,0115
Tetro	*1.00	P. 7234		*.81	* 90	* 80		8.72	* 80	- C. 1997 - 18		-27.54	,27%	.2734	.19	.1736	.24	.31	.3614	,3334	97	.24	10000	*.07
Uncle Sam ConsolidatedT.	*.21	*,1918	a,22]	*.171/2	*.25	# 1816	*.20	*.15	*.20	8.12		.50 .	111110-00	anner.	ALC: U.S. C.	*.30 [.30	.30	.3316]	.33	# 4736		#,47361	.1916
United States Mining	2.231/2	in the second second	°, 261/4	,26	°.2458	*,2316	.215	.2116	.2716	271/2	.25	.05	.10	a, 03	*,08	*.0316	, 38 %	.2436		# 30141	20.26	2925		-3915
UtahF.						25.25		24.75	23.6214			25		*.21.5d	*,23	*.22	.26%	.26		199.24	90.74		.28	127.59
Valeo	*.75	*,5532	*.72	*.55	9,75	*.70.	.74141	.7416	1.78	23.62%			19,62% 1			18.8712	20.00	18.75 - 19	*17.59	and the second in a	18.00 0		*,84%	a,20
Victor ConsolidatedT.	*.12	*.09	.12%	.11%	12121212	.13	*.14 1	*.10	1.11	9.11		.62%		2164	".60	*.41	*.70-1	*.65 1	*.70 [0.50 F	8,65 F	*,40		1.010.014
WabashP.	*.13	*.10	.23	.23	*.26	#,24	*.28	* 25		23%		1000	1212211			innal	,10]	.10		AK 6	The Court of C		* 62	*.59
West Merning GloryT.	.30	.25	.41	.39	.2716	.26%]	.25	.24%	.2654	.2614	the second se	.17		7.16	*.15	*,10 [,1336	,1336		9.08 1	- 10 I	ana ang	*.10 *.10	1.1.1.1.1.1.1 <u>.</u> 1.1.1
White Rock	*.011/2	*.01		or or other	.02 .	mond		*.00141	*.02			.2012		.25	.16	.15	.15361	.154.	6836	100.00				512272
Yankee ConsolidatedT.	*.53	*******	*,52	*.34		errored.	# FO 1						11111111	A	*******	* 7. 5 X X X X	· .001/2	orena).			2.001	*,05	*,05	* 03:2
	.46	.46	. 50	.45	.41	.41	*.85	*.3016	.42	.3914	11111111111111111111111111111111111111				17111111	LONG THE	*.50	(research)		100.00	9,45	an a		10.00
AlbionL.	Inactive	a during	the year					140.181		(02/52)	.37%	.3712	.8516	v8416	*.32	* 29	.63	.60	.41 1	.41		in the second		1212217
Ance	Insetivo	a duringe	the way	10 4	5 cents b															134 1	0.44, 1	*.3644	*.381 ₄	*,8716
Congor	Inactive	a during	the year	1, 10 to 2	a cents t	nd, 24 to	o 50 cent	s asked	£															
Galena	Inactive	a ducing	the yea	r, o cen	ts bid an	d 10 to ;	20 cents	asked.																
Golden Eagle	Inactive	e quing	the year	r, ine t	olds were	from 5	cents to	10 cent	s, with 6	cents t	o 17 cents	asked	£ 11											
Horn Silver	Incotine	a 70 mar		A. A. A	err correct a		cuon or	a cent.			or all contrary	and a start of the	ee -											
Joe Bowers	Inactive	e. to cer	118 10 \$1	Did: \$1	to \$1.50 1	isked.																		
Joe Bowers	Inactive	most of	the yea	ir, Thei	e were a	few sa	les at 1 c	ent per	share.		IN THE PARTY OF													
Richmond and Anaconda						at from	116 cents	s to 216	cents.			the second												
Shower ConsolidatedT.	Inactive	e. aa cei	nts to 6	o cents a	isked.			11.17		a solute	STREET COLORING	000-1												
Sunshine	Inactive	e during	the yea	P							air an	-							81 C					
	macuv	e during	the yea	ır.																				

The location of the various mines represented by the above list of stocks is indicated by the letter following the name: B-Bingham, F-Fish Springs, Fr.-Frisco, L.-Little Cottonwood, M.-Merour, Mr.-Marysvale, P.-Park City, P.V.-Park Valley, T.-Tintic, ||-Montana, W-Nevada,