DESERET EVENING NEWS; SATURDAY, DECEMBER 17, 1904.

GOLD MOUNTAIN, LOCATION OF UTAH'S GREATEST PRODUCER OF GOLD

OLD mountain occupies the extreme north end of the Mt. Baldy mineral belt, and is situated within the shadows of Mts. Belknap and Baldy, the two giant peaks of the range. The great phonolitic belt, heretofore described, traverses the district northearly and southerly, and forms the high divide between Fish creek and other streams on the west, and Deer Creek canyon to the east.

It was nearly 20 years ago that the Sevier, General Connor and other pro-perties were discovered and located on Gold mountain. Until about six years ago conditions in the district were simi-lar to those that have maintained in Marysvale. A few shipments of ore from the surface of veins on the Blue Bird and Silver King groups were sent to market, otherwise the camp lan-guished for capital except on the Breckenridge Mammoth where considerable development work was done under the direction of James Long.

OPENING OF A BONANZA.

The opening of the Annle Laurie mine some six years ago by Mr. Kimberly and his associates rescued the district from semi-oblivion and banished the Mt. Baldy "hoodoo" from that section of the range. From the phonolitic belt, before mentioned, a spur projects out towards the west, then bends north and abruptly ends in the depression now known as Kimberly basin. The Annie Laurie vein traverses diagon-ally the cast side of the spur and enters the Blue Bird ground, now a part of the Annie Laurie Mining company's holdings. The vein was opened by a tunnel from the north base of the hill and every foot driven on the lode more clearly emphasised the fact that Kimberly and company were opening up one of the great mines of the state, and thereby proving beyond cavil that the intelligent investment of money in that country would bring great and certain returns. While narrowing down in places along its strike, the average width is great and often swells into enormous chambers of milling ore containing good values in gold and silver.

The Annie Laurie Mine and Mill.

OREMOST among the gold producers of the state is the Annie Laurie mine of the Gold Mountain district. In fact, developments made during the year, place it pre-eminently in the lead of all others

of its class. The completion of what is known as the No. 5 tunnel and the striking in it last April of the Annie Laurie ledge at a distance of 3,000 feet in and 426 feet below all other workings, not only made good this claim, but it did more: it established the permanency of the camp beyond any peradventure of doubt. The completion of the adit was a great achievement in more ways than one; it not only increased the ore reserves of the company manytold, but it will enable more economic its delivery to the mill where the precious contents are extracted and reduced to builton. The vein shows a width of 28 feet in this new tunnel, and the values continue as uniform as they proved to be in the workings above. At the presin the workings above. ent time the ores are delivered through the No. 4 tunnel and over a gravity transway to the mill. The transway will soon be done away with; as No. 5 tunnel will shortly be connected with No. 4. by means of a tripple compartment, upraise, 7x14 in dimensions. The work of making this upraise is now in progress, having been run about 200 feet, and will be finished in the early part of February next. This done, all the ores will be taken out of the mine thereafter through the No. 5 adit, which is on a level with the crushing depart. ment of the mill. In the tunnel 30 pound steel rails are being laid, over which trains of 4-ton mine cars, pulled by electric loco-motives, will be operated. The tunnel will be electric lighted throughout and, on a whole, will be as well, if not the best, equipped in the state. In conformity with the changes that



which prevent the ore from packing | n anager of the company's vast inter- | east of the honolitic belt and extends | ern base and extending for more than | one and at the same time spread it evenly over the bottom. The benefit of this the reputation of being one of the best mining engineers as well as one of the most conversative and successful mine managers in the state. is to be seen later on in the increased rate of leaching and better displacement of solutions which is thereby ef-fected. While the tank is filling, a sofected. While the tank is hiring, a so-lation of sodium cyanide is at the same time soaking its way up from below, and not long after the tank is fully charged the solution begins to

The milling department, as well as the power plants are in charge of O. Wiser, while the leaching department is presided over by A. W. Russell, Both gentlemen are thoroughly competent in the positions they hold and are valued members of the staff of Mr. Hyde.

THE SEVIER PROPERTIES.

is taken into solution. This gold and silver bearing solution is now drawn off from below and piped to the precipitating room. After precipitation A couple of miles west from Kimber-ly is the Sevier mine. The enormous are reasonably certain to materialize

ests at Gold Mountain. His record at the Annie Laurie has won for him At the head of Deer Creek canyon, the Annie Laurie Extension Mining company is making a hard and intelligent being driven to the west in birdseye

porphyry. The tunnel has frequently cut seams of native copper, of such purity that it readily bends without breaking. The great and well-founded hope of the company is, however, in the results that

100 miles northerly and southerly another great line of displacement, known Washburne, — Murray, James Stark, afterwards probate - judge of Piute county, Fred Haller, Fred Hamil, D. C. as the Sevier fault. Also, along what effort to open a mine. The ore for which the Extension people are going, crops in the form of a strong vein on the crest of the phonolite divide. Well down on the east side a long tunnel is being downward to the earth's melted interior, and is marked by a Tate, Jed Taylor, who subsequently joined the "Mormon" Church and be-came the first Bishop of the Marys-vale ward, Dr. Dennis, Miles Durkee, and Ed Foisy. Durkee and Foisy are, the only survivors of that squad of Plute county argonauts and Who that great phonalitic dyke or belt, which extends from Gold Mountain southward a distance of some 8 to 10 miles. Nu-merous lateral fractures projected out easterly and westerly and are also easterly and westerly and are also marked by pholitic dykes, and were the last of the successive eruptions of rhy-Piute county argonauts, and, like their smelter stack monument in Bullion canlite, porphyry and similar volcanic material. Fissuring and faulting of the quartzite and lower carboniferous lime. stone, which predominate along the east front of the range, are conspicuously in evidence over a distance of many miles. Such, in brief, are the ideal geological conditions which preil in what is familiarly known as the Marysvale country.

BACK IN THE SIXTIES.

It was in January, 1866, that Capt. Jacob Hess of Manti, Utah, entered the little valley of Marysvale. Capt. Hess was one of that famous little band which washed the first gold from the auriferous gravel of California. The intelligent and observing prospector, generally innocent of geological in-formation, is guided in his search for the precious metals by the similarity of formations and other familiar conditions, and the captain was an unusually intelligent and observing man.

SOME GEOLOGICAL FACTS.

load after carload of ore running into the hundreds in lead, silver and gold were shipped to Sait Lake. The great-er portion of the high-grade ore was extracted, but there was opened up a cast blacket descript of ore building in The present valley of Marysvale was once a post-glacial lake, a tributary of the great Lake Bonneville. The water of the former was held back by obvast blanket deposit of ore lying in a quartzite and lime contact. The de-posit in places swells to a thickness of 60 to 80 feet and will average 30 to 40 feet thick of ore, averaging \$10 per ton structions in what is now known as Sevier canyon, north of Marysvale and now jointly occupied by the Se-vier river and the Denver and Rio Grande railroad. Both river and railin gold and silver. A million and a half dollars "in sight" is a conservative road are indebted for their right of way to the great Sevier fault, which cleft the mountain link which, except for the canyon, connects the Gold Mountain portion of the Mt. Baldy range, with

have been recklessly expended with no definite aim or results. DISPLAY OF INCOMPETENCE.

Since 1899 Marysvale has been the Since 1899 Marravale has been the victim of gross mining incompe-tence. Where one tunnel would have determined the question of ore at a given point three twenels have been driven by the same company towards practically the same locality, and then abandoned because funds could to longer be conxel from eastern share-holders. A hundred thousand dollars have fints been apent where \$5,000 in vested in a shaft on the veln would have determined all that will be accom-plianed by the completion of the long tunnels at an expenditure of another \$100,000. A lot more truth along the same lines could be written in answer to the oft asked question "What's the matter with Marysvale?"

A ERIGHTER SIDE.

There is, however, a brighter side to the question, and is found in the single-handed efforts of local mee, and in the prudent course of small custom companies.

SOME OTHER PROPERTIES,

At the present time the Aldebaran At the present time the Aldebara Mining company of Missouri is working a small force of men on a fine ore-bearing contact about four miles south-west of the Deer Trail. Under the superivision of B. T. Ashby a winze is being sunk near the face of a 700 foot twent which all along the company.

being sunk near the face of a 700 fool tunnel which, all along its course pro-duces ore running from a few dollars up to thousands of dollars per toa. In the south fork of Bullion, away up near the great phonolite beit, Bet Reynolds and Scott McCullough are be-veloping a 40-inch wein of high sector veloping a 40-inch vein of high grade gold-bearing reek. The property is known as the Mountain Star, and gives almost certain promise of becoming a

L. H. Outzen is working a small for-of men below the Mountain Star In the south fork The Gold Development Mining com. pany is creeting winter quarters and preparing for exploratory work well up

in Bullion capyon. The old Webster property is being worked by Baler and Rudd under a lease, and ore is being extracted and marketed.

IN SEVIER CANYON.

Down in Sevier canyon, some seven same old ditch and placer ground and, with that perennial hope that never dies miles north of Marysvale, the B. W. miles north of Anrysvale, the B. W. & H. is developing and shipping is usual output of high grade ore. Across the canyon a few miles to the east of the B. W. & H., the Bradburn Mining company is developing a most Mining company is developing a most except with its owner, is again striving for the same object abandoned 37

promising eight foot veho of gold ors. To the south of the Bradburn a mile or two the Midnight group, another flattering property, is being opened by W. J. Hekl.

There are numerous other properties of good local repute, idle and active, that could be mentioned. that

Nowhere on the earth has Dame Na-ture provided more perfect geological conditions for rich and permanent mines than are found in the semi-cir-cular belt that, from Ten Mile canyon to the south, bends around Marysvals on the west and north. In the years to come Marysvale will cease to be the football of incompetent mining fakes, and will take her place among the real-ly great mining districts of Utah.

Utah Con. Smelter And Its Equipment

HE smelting plant of the Unb Consolidated Mining company consists of 20 McDougal reasters, nine reverberatory furme



30

have been taking place in the mine, the company, during the year, added new equipment to the mill, raising its to 200 tons a day, and it is capacity possible further additions will be made to the plant next year.

During the past four years the Annie Laurie, notwithstanding an extensive campaign of development has been carried on, has paid dividends to its stockholders aggregating the sum of \$249,516 and at the present time is paying at the rate of \$12,500 monthly,

The Annie Laurie properties con-sists of a total of 73 claims, covering an area of 1,300 acres; a cyaniding mill of the capacity already mentioned, two water power plants located six miles from the mine, besides an auxillary steam plant. The company generates its own electricity used in the operation of the mine and mill.

The Annie Laurie mine has in tunnels, drifts, stopes, sublevels, raises, over four miles of workings and ate. practically all is in pay dirt.

The average cost of mining and milling has been estimated to be about \$3.50 per ton, or to better illustrate \$10 ore leaves the handsome profit to the owners of some \$6.50 per ton.

There are over 300 men employed in the mine and mill at the present time.

ANNIE LAURIE MILL.

On reaching the mill from the mine the ore is fed over grizzlies, passing directly to the Gates' crusher and then to the ore bin, which supplies the There are two discharge gates dryer. at the lowest point of this bin, and through these the ore is passed by gravity to the Argale tubular dryers where it is dried sufficiently to admit of crushing and grinding in the rolls The fine crushing department is separate and complete in itself, the ore from the dryers, after passing through it, being delivered into a large pulp bin, at which point the leaching department takes it in charge. In this fine crushing department, then, there is one 6x20 Sturievant roll jar crusher, each running in connection with overhead screens.

The reduction is effected gradually, the first set of rolls taking the coarse-ly crushed ore which has been delivered from the dryers and breaking it up into smaller particles. It is then elevated and screened, the oversize going to another set of rolls to be there still further reduced in size. After more screening and crushing the ore is finally delivered into the pulp bin before mentioned, all of it having passed through what is known as a "40-mesh screen." This fine state of division is necessary to break open the particles of quartz surrounding the gold and so expose the metal to the action of the cyanide solution with which it comes in contact in the subsequent leaching process,

The leaching department has been twice extended since the starting up of the mill and is now capable of handling a larger tonnage than ever be. fore. The equipment consists of 16 steel tanks, varying in capacity from 130 to 240 tons, and each is provided with a filter bottom and Argale gate valves through which the tailings are sluiced when the extraction of values is complete. The ore is taken from the pulp bin in cars and dumped into the tanks over a system of distributors

average about 100 pounds each bars regularly find their way to Une Sam's coffers, and are as regularly converted into dividends payable to the Annie Laurie's fortunate shareholders But to go back to the treatment of the ore in the tanks, which was all but finished when it was left; the values have been extracted, the cyanide has been washed out and recovered, and it remains to get rid of the tailings in order to make room for a new lot of ore in the tank. The gate valves are raised, and a stream of water is di-rected onto the tailings, which are thus washed through the valves into large wooden launders. These conduct the tailings to the plate house, situated immediately below the mill, where they pass over a series of amalgamatel coper plates. Sufficient time is given in stuicing to allow any coarse particles of gold left in the tallings to come in contact with the surface of the plate and to be amalgamated and caught. The scheme of amalgamation after cyeniding is a novel one, so far as dry-crushed processes are concern. ed, but the wisdom of the sten has been more than conclusively proven since its adoution. The tailings, after leaving the plates, are flumed a coniderable distance and impounded behind a dam, and to prevent it from contminating the waters of the creek which flows past the mill. A rather unique feature in connection with the disposal of the tailings is the suspension bridge over which they pass on their way to the dam, for, as far as the writer is aware, it is the only one of its kind in use anywhere for a like purpose. It has a span of 270 feet and

make its appearance on the surface. It is allowed to stand in contact with

the ore for a number of hours, during

which time most of the gold and silver

the cyanide solution passes on to the sump tank, where it is brought up to strength again by the addition of fresh

cyanide in the solid form and pumped

up into the stock tanks by a centrifu-get pump. From here it is led on to the top of the ore in the leaching tack, where it completes the work of ex-traction, and at the same time, washes out or displaces the work of sub-

out or displaces the gold and sliver bearing solution retained in the charge.

The solution first brought into con tact with the ore is known as "strong" solution and varies in strength from

time to time as the nature of the or and laboratory tests would indicate.

duty as the other it displaces this

"atrong" solution from the charge, and, in this way it can be kept separate for

its own particular share of the work.

In a similar manner, clean, pure water is piped onto the top of the charge and

allowed to filter down through for the purpose of removing the "weak" solu-

passes through metallic zinc, cut un into fine, threads or shavings, and

there the precious metals are deposited in the form of finely divided metalli-silmes, which are inky black in color-

other operations incident to refining.

are melted into bars weighing on ar

tion.

Each displacement of solution

at the center its height above the creek is over 100 feet. It is quite a novelty on the landscape and never fails to attract the attention of the visitor to the camp, The process in use is known as the

McArthur-Forrest cyanide process, and that it is well adapted to the ore in question is evident when the record of the mill slace its commencement is considered. Unlike many, the directors of the Annie Laurie company spent much time and money beforehand in mining just what process or modification of a process would be most suitabl and subsequent operations have amply

borne out all that was even prom n the proliminary tests by the McArthur-Forrest representatives. During October of 1963 the position

of acting manager of the company was tendered to and accepted by A. E. Hyde, Jr., of this city, who had previously filled the position of engineer for the company. His conduct of the interests in his charge during that time proved so satisfactory to the officials of the company Mr. Hyde was tendered and accepted the position of general

A. E. HYDE JR. Coneral Manager of the Annie Laurie Mining Company.

outcrop of one on the Fish creek di- | when the phonolite contact is cut at vide is an object of curiosity to all be-holders. The north face of the mountain is an ore slide many feet deep, and is the product of ages of disin-tegration of the vein on the apex of the ridge, Tunnels 1, 2 and 3 have been driven in to the veln upon which thousands of feet of levels have been run. The voin has an average width of about 10 feet, and 400 assays on samples from No. 2 give average returns of better than \$14 per ton in gold and silver. Chas. Lammersdorf was the former owner, and who sold out for a com-fortable fortune to the Sevier Consolidated Gold M. M. & P. Co. Seymour W. Tullock is president, W. E. Malson, vice president, and Capt. H. C. Lawrence is secretary, treasurer and manager

Mr. Lammersdorf has retired to the progressive city of Richfield, where he and Mrs. Lammersdorf will spend the

remainder of their declining years. Capt. Lawrence has built a 60 ton mill on the Sevier property, and will soon have things in shape for grinding out the enormous wealth that is known to exist in the Sevier hill. An enlarge-ment of the plant is provided for by the installation of a 250 ton crusher. Cya-niding, amalgamation and concentration are the combined processes for extracting the values.

Captain Lawrence is authority for the statement that recent explorations have demonstrated that the "middle" vein is 120 feet wide and that the entire product therefrom will pay to mill. The so-cailed "middle" vein is a separate lode and parallels the one from which the mill is to be now supplied,

In close proximity to the Sevier are the Holland, Lone Tree, Wheeler and other valuable properties. Further south are the Trapper's Pride, Signal Peak and other mines that will some day pour streams of wealth into the coffers of owners,

DEER CREEK DIVISION.

A detailed description of the mines. of Gold Mountain would fill a good sized volume. But it would be an in-justice to the district to ignore the merits of the Deer Creek division which, as before indicated, lies to the | as the Beaver fault, and along its east-

a depth of more than 1,000 feet below the ore croppings just alluded to. From purely geological standpoint Manager L. H. Outzen is amply justified for the "faith that is in him."

To the north of the "Extension" about two miles are situated the Sil-ver King and Gold Queen properties owned by the Darger Bros., Singleton and others of Provo. Like the Annie Laurie Extension, those groups lie to the east of and close up to the phono-lite belt. The groups have been held under assessment work during many pears. No systematic work has yet been undertaken, but enough has been done to show up wonderfully rich gold ore and to demonstrate that fortunes are within reach of determined efforts. PROMISING UNEXPLORED FIELD.

To those who have studied conditions along the phonolitic belt, there is an abiding conviction that it presents the most promising unexplored field for mining enterprises to be found in the

United States. The Gold Mountain Development company and the Richfield M. Company are centrally situated on Deer creek and have ground which shows plenty of ore of good quality. In fact, from the phonolitic divide, east to the Sevier river, the country is highly mineralized, and presents an inviting field for prospecting and development work

Mount Baldy Gold **Belt and Its Mines**

• O the geologist and practical miner and prospector, who reason from cause to effect, the Mt. Baldy range presents every condition necessary to the presence and permanency of vast bodies of mineral wealth.

The tremendous forces which lifted the Mt. Baidy range into cloudland left a great scar at its western base, known

to the east of Sevier valley and Marys-

Five distinct shore lines to the southwest of Marysvale prove that five sud-den subsidences of the lake took place before the valley was measurably drained, and became a marsh or a fine tract of meadow land. As the water receded, the waves gathered the debris, brought down by glaclers and torrents from mountain sides and gulches, and after rounding, polishing and puluverizing the rock fragments, formed succession of smooth, wave-swept benches, each with a sharp escarpment facing th east, and north. It is under the protecting brow of the lowest of the benches that the picturesque little town of Marvsvale nestles within a natural grove of cottonwoods and towering pines.

CAPT. HESS IMPRESSED.

The first thing that probably impress. ed itself on the mind of Capt. Hess was that it was a mineral country. Very likely the second impression was that those wave-washed benches ought to contain placer gold. Pannings from various points convinced him that un-told millions of dollars were diffused contain placer gold. through the bench gravel. A ditch from Bullion creek was dug and water con eyed to the top of the second bench. Sluice boxes were put in and an ef-fort made to collect the elusive grains of go'd. Owing to the primitive methods then in vogue the enterprise proved failure, and since then no serious effort has been made to collect the gold-on sand sowed by the busy waves of the ancient lake

DID NOT DISPAIR

Folled in his efforts to wrest the gold from the gravel, Capt, Hess and his companions resolved to find the source of the yellow god of the "gold bugs." They penetrated the almost impassable depths of Bullion canyon, and in January, 1866, located the Webster lode claim, now owned by L. U. Colbath, the well-known mining man of Salt Lake City. Numerous northerly and southrly veins carrying lead, copper. sliver and gold were discovered, and Marys-vale became suddenly famous.

THE FIRST MILLING PLANT.

A two-stamp mill and a donkey en-Subsequently, the Wedge was dis-covered a half mile or so southeasterly from the Dalton, and created great ingine were imported from Chicago, and the impossible task of reducing ores arrying a combination of metals was terest by the richness of the ore. undertaken. undertaken. A rude smelter stack was then erected. Battered and scarred showing of ore on the surface, only one y the storms of more than 30 years the or two determined efforts, backed by old chimney yet stands as a monument a combination of brains, experience and money have been made to determine to the misdirected but determined efforts of those old heroes who, while bombarding the indurated rock with the questions of value and permanency. black powder that cost nearly In many instances great sums of money

estimate of Deer Trail wealth. The property is owned by O. J. Salisbury of Sait Lake City. That the great body of ore does not extend on into the mountain has been fully demonstrat-ed by several tunnels along the con-tract and the source of the ore is one of tact, and the source of the ore is one of those interesting problems that so often confront the man who mines. Whatever its value, a solution will be ven-tured. As before stated, the quartzite tured. floor and lime roof are in bedded form. To the north of the great ore body the quartzite and lime are cut by a porphyry dyke that extends from the base to the top of Deer Trail mountain. The quartzite underneath the ore body split with innumerable fissures. and conditions indicate that many of them were channels for ascending ore-bear-ing solution. Indeed, some of the fissures contain seams of pure galena. Such conditions would seem to two very plain conclusions: First, that the porphyry dyke was the cause of the mineralization of a contact some dis-tance below the exposed ore body, and second, that the upper ore body de-rived its values by the upward flow of solutions from the inferred contact be neath. Another interesting feature is that no effort has been made to find and explore the contact on the north side of the dyke, and where probable identical causes produced identical resuits. Conditions at the Deer Trail would seem to justify the belief that, like Leadville, great bodies of ore exst in bedded form at no great distance below what is called the Deer Trail contact, and that on both sides of the dyke colgseal fortunes await the advent of some one with nerve as well money for intelligent exploration. Ne. gotiations are now pending whereby the old Deer 'Trail will again come to the front as a great producer. A SECOND BOOM CAME.

Another boom struck Marysvale when the Dalton was discovered in

Horse Heaven, along in the early "nineties." A fortune was taken out at the "grass roots." At about 60

feet in depth the vein was found in a faulted condition and while fair mill-

posits of rich ore has not been dupli-

ly view is fully twelve feet wide and its showing at nearly 300 feet deep is such as to put the question of per-

DISCOVERY OF THE WEDGE.

Notwithstanding the marvelous

cated. The great easterly and wester

ing ore is abundant, the surface

manency beyond all doubt.

dollar per pound, were compelled to hold Black Hawk and his

marauding band of redskins at bay, A portion of the roster of those old-

on, are somewhat battered and dis-

figunred by the hard hand of Fatner Time, but are still in the ring. To li-

lustrate the indomitable perseverance of those pioneers, it is well to add that

Miles Durkee has recently tackled the

After successive failures to coax the

goddess, Fortune, from the rock-ribbed chambers of Mt. Baldy, each of the

pioneers secured a ranch and settled

down to farming and stock raising. As a mining camp, Marysvale also set-tled down to a condition of pastoral

SILVER REEF MINERS.

ous Deer Trail was discovered.

A number of miners who deserted Silver Reef during 1878 invaded the hills west of Marysvale and the fam-

years ago.

somnolence.

three converter stands, and a town house containing one 300 horse pawer blowing engine and two generator sets. consisting of 400 horse power Nordberg tandem compound engines directly con-nected with 300 k. w. Westinghouse gen-erators. There is also a sampling mil with a capacity of 1,000 tons per day electric and machine shops, and and coal bins; the latter with a pacity of 2,500 tons of ore ar. 000 to is driven electrically or power. The course of treatment for the ore is as follows: Arriving in ster hopper bottom cars of 10 tons capacit from the mine, it is dumped into re ceiving ore bins; from there is passes to the sampling mill, where crushed to a size not exceeding seven-eighths of an inch and lifted into blas Electric tram cars draw from thes bins and deliver the raw ore to the re-ceiving bins of the McDougal roasting furnaces. The ore then passes through the roasters, where a large proportion of sulphur is driven off and the ronstel ore drops again into hoppers. From these it is drawn by electric tram cars and delivered into the receiving bins the reverberatory furnaces, where it smelted, the slag being drawn of slag cars drawn by electric locomotiv and the matte being run out into o werters which are placed in position by an overhead electric crane. converters are transferred by this same crane to converter stands, where is matte is blown up to blister copper This is poured into east steel moulds of traveling cars propelled by hydraule power, and when cooled these are last ed in railway cars for shipment to the east to be refined and the gold and silver separated from the copper contents. The capacity of the plant is about 70 tons of raw ore per day, and the pro-duct is about 50,000 pounds of pullos

Properties Owned by

daily.

The Bingham Con.

The properties of the Bingham Con solidated consist of the Dalton & Lark and Commercial mines in Bingham, th Eagle and Blue Bell mine in Tintican the smelter in operation at Bingham Iunction

The Dalton & Lark properties, are situated on the southeast side of West Mountain Mining district, consisting of the Antelope, Miners Dream, Dalta & Lark, Lead Mine, Sampson, Brookis and Yosemite No. 1 mines, embrach and Yosemlte No. 400 dcres; have three veins parally each other, a distance of about feet each; namely Brooklyn, Lead M vein and the Lark vein, tapped by Mascotte tunnet, 7,500 feet long. lowest workings are 1,100 feet from surface in the Lark vein. There about 30,000 feet of drifts in those pr erties combined, and have very la ore reserves. The equipment cons of a 250 H, P, air compressor, 75 H. re reserves. electric generating plant and a electric raffroad.

The Commercial mine, is situated in Bingham Canyon adjoining the Up ited States properties, and is operated through three tunnels; the equipment consists of two Rand air compressor driven by team power. The ore posed at the present time will fun posed at the present time will furn a large tonnage for a number of year The Eagle & Blue Bell, is situated Eureka, and is operated through 1.100 foot turnel and a shaft at the en of the tunnel. The mine is opened to depth of 800 feet from the tunnel. This property is producing about 75 tons of property is producing about 75 tons

broperty is producing advised ore per day. The smelter is at West Jordan, of Bingham Junction, and has four blast furnaces, with a capacity of about 90 tona of ore per day. two convertes stands, one 1,000 H. P. blast engine built by the Raris works at Columbus, Ohio, of about 1,500 H. P. This power is furnished by the Utah Light & Railway company. The smelter is equipped with all the secon-sary office buildings, laboratories, atty office buildings, automatic sary office buildings, electric slag haulage, sampler, and dumping bins.



THE "LODGE," ANNIE LAURIE MANAGER'S HOME OVERLOOKING KIMEERLY.

