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REPORT ON THE

the Large Cale HORSE CREEK PLACER, the massys will

LARAMIE COUNTY, WYOMING, U.S.A.

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LOCATION.

Laramie County, Wyoming, U.S.A., about eight miles west of the line dividing Wyoming and Nebraska, and forty five miles north of the line which divides Wyoming and Colorado.

COMMUNICATION.

By waggon road from Thomas's Ranch on Horse Creek to
Chugwater Railway Station on the Cheyenne Northern Railroad;
which road taps the Union Pacific at Cheyenne 72 miles
south.

TOPOGRAPHY.

Neither mountains nor flat, consisting of large up-

ALTITUDES.

See accompanying blue print taken from authentic Surveys.

CLIMATE.

Beautiful in summer - a perfect Italy. In winter, considerable snow and bleak wind, still very healthy. No malarious or fever elements. Atmosphere very bright and clear.

WATER.

An abundance for all purposes; slightly alkaline; very clear. Supply constant at all seasons.

IMPROVEMENTS.

Good houses, mostly stone, good farm baildings and corrals, the whole country well fenced, and intersected by good waggon woads.

SOIL.

Very light but not deep, covered mostly, except in the large culvitated enclosures, with the native wild grasses, which carry a small grain very nutritious for cattle; with which the whole tract is covered.

GRAVEL.

Underlying the soil at from six inches to three feet depth - is composed principally of a white sand, disintegrated quartz, black sand, Pebbles of Gold Quartz, granite, slate, manganese, and Hematite iron stone; worn round by attrition. Bears all the indications of carrying gold but is very hollow; full of interstices.

Whatever gold there is in it long ago has worked its way down by the action of water to more solid ground.

TIMBER.

Very sparse - only occurs on the creek and river bottoms and consists of Ash, Oak, Cottonwood, etc., - and is not large or valuable.

The following questions and remarks, quotations from Mr. Smith's letter of instructions, with the replies off-set against them, fairly covers the ground.

My Criticisms on the property are as follows:

"In the first place the man seems to I do not know, nor does

"want half or nearly half of the capital Mr. Sturgis the nature of

"of any Company floated. Mr. O'Conor's proposition.

"This of course is out of the ques- I learnt, however, that he "tion - you would have to talk reasonable could deliver the lands "terms to him." to O'Conor free from en-

I do not know, nor does
Mr. Sturgis the nature of
Mr. O'Conor's proposition.
I learnt, however, that he
could deliver the lands
to O'Conor free from encumbrances (U.S. Patents)

"Has he got options?

"If he has not got them right, can hold title, and having been issued, cover all minerals or "without outlay or with small outlay?" other deposits found after issue.

Titles are in nearly every case U.S. Patents; the strongest freehold title, and having been issued, cover all minerals or He has options on most of the lands, which can be renewed by small payments; balance can be secured at reasonable prices if not allowed to drift until the placers are proved to be valuable. One year from commencing operations is quite enough to prove value of placers if the work is prosecuted intelligently. There ought to be no trouble in securing this time.

"To demonstrate the values I)

"expect it would be necessary to sink) Certainly.

"more holes.)

"How could this be done and with By putting down water-tight what outlay? shafts - ordinary matched h

By putting down water-tight
shafts - ordinary matched lumber about 8' x 4" inside measure Cost, about \$2.00 per running
foot constructed and in place,
plus the labour of excavation
say \$4.00 per foot all told.

pround by Diamond drill first,

before going to this expense;

thus ascertaining distance to

Bed Rock and approximate values

all the way down - £1000 would

cover cost of drill, small engines

and boiler, freight, haulage and

wages for 3 men for 3 or 4 months.

One months work would prove

whether it was worth going on with

In case of abandonment the loss

should not exceed £500.

"They estimate the depth of the)
ground as 50 ft.

"On what principles do they get "at it?

Purely guess work.

"What do you estimate it at?

I should think that midway between the higher lands on each
side of the deposit it would not
be less than 200 ft. at the centre,
and shallowing to 10 or 12 ft. at
about a mile each side the centre.

"And what the average value?

Nothing short of actual tests could give this.

"What chance is there of it being I washed wherever I could get at

"Are there many boulders, and "large ones?

"How about water?

"They talk about an underground

"river. If it a river how are you

"going to get away with the water
"you can't turn it into another chan
"nel as if it was above ground.

"If this is all rot and there
"is no river, is there sufficient
"water to wash with?

a colour. I should have been surprised if I had; the gravel was so hollow, whatever values there are are sure to be below, but I could not get lower on account of water.

The gravel is the most promising I have ever seen.

Very few boulders and very small seldom reaching the size of a
football. They will probably
be larger below.

Superabundance of it.

I should question this.

The whole neighborhood is full of natural springs, the water from which is working its way through the interstices of the gravel and cozes into the creek so freely in some placed as to give rise to this theory.

The whole valley is evidently the bed of an ancient river and a very large one — a river certainly not less than a mile

"They talk about \$100,000 "plant to work it.

"Is it a steam shovel & derrick? "Hydraulic Elevator, or what?

"be used. To prospect it I suppose "should have pump and steam.

"Is there any water outside this "underground supply?

This capital is ample. There is only one way to work it that is by steam shovel and derrick - Risdon's of San Francisco -"I suppose Steam would have to Lay's of New York, Bennett's Amalgamator of Denver, or Barlow-Massick's of Prescott, Arizona. To prospect by shafts large pump and steam would be required.

> There is a flow of over 5000 inches in Horse Creek at the Thomas Ranch, which is the best place to commence operations. The Creek is 40 to 50 ft. wide and quite deep. The water is beautifully clear. I visited it at the driest time of the year. 5000 Miner's inches represents a washing capacity of over 15000 cubic yards of gravel per 24 hours.

> There is water enough for both the gold washing and irrigation for balance of land not being worked for gold.

One question you have omitted. Supply and resources of Wood for

The country in the immediate neighborhood is sparsely timbered. Cord wood is consequently dear. Sawn timber would have to be hauled 35 miles from nearest R.R. Station, but there is coal, partially developed within four miles (down stream) of Thomas's Ranch — so there is no trouble about fuel, for Sturgis owns the Coal and fireclay. I examined both and submit samples.

In conclusion. The proposition as a whole I consider from its agricultural standpoint - especially if applied to sugar Beets as a safe and lucrative investment, which would rapidly increase in value.

The Gold Proposition I consider as a gamble; with this to be said in its favor. If a win, it is a big one, and means returns for an unlimited time fully equal to those of the Sacramento River and Tributaries in California, where the different Companies at work from the beginning of the excitement in the 50°s to 1883 (when the Government by Military force stopped the work), actually by official returns paid taxes on gold recovered of \$1,100,000,000 - say £200,000,000 Sterling.

If a loss, ±500 to±1000 ought to more than cover it.

Yours respectfully,

D. E. Keating, M.E.

Denver, Colorado, Dec. 1st, 1897.