THE DIRECT PRODUCTION OF REFINED OILS AND AMMONIA FROM OIL SHALES, LIGNITE COALS AND PEAT. EQUIVALENT TO OIL FROM WELLS COMPLETE RECOVERY OF OILS FROM OIL SANDS UNCHANGED.
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(*Patented*)

WM. HUNTLEY HAMPTON

CONSULTING MINING AND CIVIL ENGINEER
CHEMIST AND METALLURGIST
LABORATORY AND ASSAY OFFICE, ESTABLISHED 1886

475 WEST PARK STREET
PORTLAND, OREGON

NEW ELECTRIC, OIL, GAS OR FUEL CONTINUOUS RETORTS AND FURNACES FOR QUICKSILVER WITHOUT SOOT PRODUCTION, FOR METALLURGICAL CALCINING AND DESULPHURIZING WITH RICH BY-PRODUCTS FREE FROM FUEL COMBUSTION GASES.
IMPROVED QUICKSILVER RETORTING, ELECTRIC FIRED ROASTING AND SINTERING MACHINES WITH BY-PRODUCT RECOVERY.

2057 S. W. Park Ave. January 6th. 1938.

Mr. A. V. Allen,
2221 N. W. Flanders St.
Portland, Oregon

Dear Mr. Allen:-

Concerning the letter I wrote conveying my opinion of THE FLAGSTAFF MINE, Baker County, Oregon, under date of July 8th, 1928, and your request that I add thereto other information I gained, but did not include in my letter, that would give some idea of values of the ores from the little sampling I did. Following is a copy of the body of the letter I wrote:

"I visited The Flagstaff Mine on March 18th, 1928 and spent the greater part of the day examining the surface outcrops and the workings on the 260 foot level.

I found three important fissurings dipping at varying angles in the same general direction and intersected by some cross fissuring involving all three veins.

It was not possible, within the time, to go into the stopes to make a study of the features of the fissures.

I have relied upon Mr. Sullivan's statement as to the extent of the workings and it appears that the main production of the mine in the past was from ore bodies above the 260 foot level, on the Flagstaff vein, which has been practically stoped out, and that very little exploratory work was done to find contination of ore beyond the body mined. In re-attacking the mine this should be borne in mind.

The varying and converging dip of the three veins indicate that they will come together somewhere below the 360 foot level and exploratory work should be inaugurated to determine what exists in the ground between the 360 and 560 foot levels before any plans are made for future development. The Flagstaff vein is the high grade vein and its continuation should be determined. There should be all reasonable expectations that there other important ore bodies on this vein both laterally and vertically of equal values.

Each vein has characteristics not in common indicating three periods of fissuring. The Red or Big Vein and the White Frost are lower grade ores and are wide and massive. They promise a large quantity of low grade ore, which can be easily and cheaply mined when the mine is properly opened. There is the probability that these three veins will come together and practically become one large vein as they proceed in depth with large ore bodies and enrichments. Something pertaining to this should develop in the work that I recommend."

My observations were that the Big, or Red Ledge, (the middle vein) was from 4 to 6 ft wide and in places as much as 20 ft wide. I have been informed by several reliable parties who have inspected the property that the Red Ledge shows on the 360 level with the same characteristics of vein filling, width and values as is shown on the 260 level. The ores are all oxidized being well above the permanent water level. The ores are not all quartz, but mostly a silicified altered country rock filling between the walls.

I took a sampl of the Red Ledge on the 260 level where the vein is fully 20 feet wide. The sample represented 12 feet of this that could be conveniently reached. This sample assayed $5.10 per ton, present value would be $8.92 per ton.

On the surface was a pile of quartz screenings said to have come from the White Frost vein, 260 level. A sample of these assayed $4.80 per ton, present value would be $8.40 per ton. The ore from which these screenings had been derived had been shipped away.

There was another pile of ore 9(about 40 tons) said to have come from the 260 level of the Red Ledge. A sample of this assayed $6.65 per ton, present value $10.98 per ton.

When I visited the property there were no maps available of the property. The maps of the workings that I have recently seen do not show where the old workings are located, from which, it is claimed over $300,000.00 was taken in the early history of the mine. This information should be obtained so as to know where the old workings connect with the shaft and drifts already mapped. It will aid greatly in the solution of the problems existent, and to relocate the original Flagstaff.

Easterly from the Shaft House and in the vicinity of a winze, which connects with the White Frost vein at its easterly end of the 260 level drift, There is a large showing of quartz on the surface mixed with the soil. This is evidently the Red Ledge outcrop.

Maps I have recently seen of the workings show three distince veins with a general parallelism in dip and direction. It is very essential that cross-cuts be made to intersect the White Frost on the 360 level and also to intersect the Red Ledge and White Frost on the 560 level to determine their position and values.

Apparently the tonnage will be large and values uniform. I have no data that would enable me to make any tonnage estimate and value. The driving of the cross-cuts to prove the existence and position of the veins on the lower levels would fully double probable ore if the veins were found of size and value reasonably to expect from present development.

The Flagstaff property has all the "ear marks" for the making of a large and profitable mine as the recovery of the values is simple and easy at a low cost.

It will require more knowledge of the property and some study to make recommendations as to profitable operation, etc.

Yours very truly,

(Signed) Wm. H. Hampton

COPY

October 28, 1937

Mr. A. V. Allen
2221 N. W. Flanders Street
Portland, Oregon -- BR 0235

Dear Mr. Allen:

In accordance with your request I have read the reports which you gave me relating to the Flagstaff Mine near Baker, Oregon. I also carefully inspected the assay map of this property.

After this reading and inspection of the map, I feel that you are fully justified in proceeding to Baker and securing from the person you mentioned all additional data that you can secure. If this information does not change the situation materially, I think you would then be justified in employing a mining engineer to make an examination of this mine to check the accuracy of the former reports and map as to their correctnesses.

When you return, I will be pleased to look over the additional documents and information and to assist you as best I can in reaching a proper conclusion.

Very truly yours,

STATE DEPARTMENT OF GEOLOGY
AND MINERAL INDUSTRIES

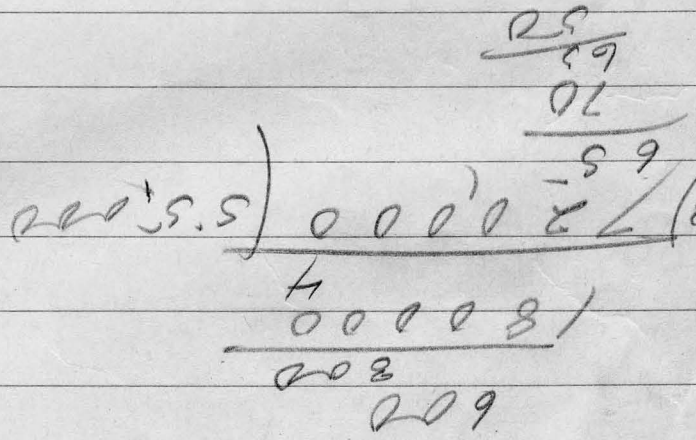
By

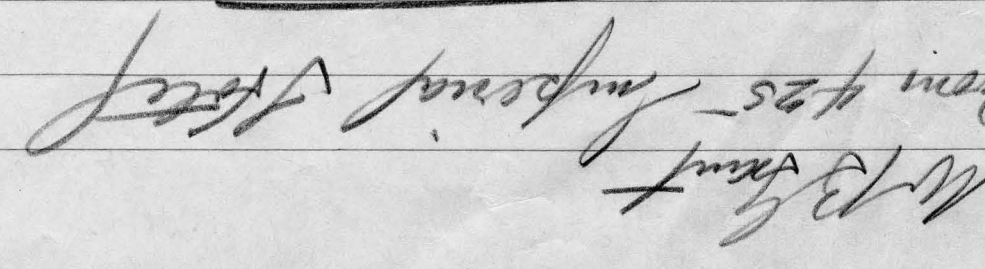
AMS:vm

A. M. Swartley
Consulting Mining Engineer

A. Allen
2221 NW Flanders St
Phone 720 0235
} Interested in Flagstaff Mine (two options)

W. D. Laymon
3334 Hawthorne Blvd
Portland Oregon
Phone EAst 7424
} Owns Flagstaff Mine





A. G. PORTEOUS, AGENT

SHOEMAKER BUILDING
BAKER, OREGON

Extract from letter from A.V.Allen dated Nov 14,1937.

"On Saturday I met Mr Laymon and explained about our investigation and failure to find the large veins in North end of 360 foot level, also that Mr Nixon had suggested sinking a shaft to intersect the North end of 260 foot level.Mr Laymon then told me that he ahd already sunk such a shaft 6' x8' vertical to a depth of 60' and that he tunneled North & South and found additional large veins.It seems I cannot get all the information from him at one time.He says this shaft is located just above the bend in the mine road at a point close to the ore dump.Also,he says this body of ore or vein is part of the big vein found within the mine proper.

As Mr Nixon was quite interested and suggested sinking a shaft in this locality,I would appreciate very much if you would contact Mr Quine,call his attention to this shaft and ask him if he will look it over,take a sample or two and report his findings in order that I can get a more complete report.This shaft should not be hard to locate on the property and to investigate would not take Mr Quine more than a few hours time.

With this information plus an explanation from Mr Matthews regarding the figures on his blue print should assist materially in determining the volume and value of the ore bodies in the Flagstaff Mine.

If you can take time to see Mr Quine on Monday or Tuesday I believe he will make this further investigation immediately as it should be done before snow starts falling."

Rough sketch from Mr Allen is also enclosed.

RESIDENT AGENT

PACIFIC NATIONAL FIRE INSURANCE CO.

HOME OFFICE
SAN FRANCISCO
CALIFORNIA

Flagstaff Mine

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

704 LEWIS BUILDING
PORTLAND, OREGON

November 15, 1937

Mr. Albert Quine, Mining Engineer
State Assay Laboratory
Baker, Oregon

Dear Al:

Mr. A. V. Allen came in today and stated that he was writing to Mr. Matthews, the man who did the assaying at the Flagstaff Mine, asking Mr. Matthews to see you and give you whatever information he could about the way the work was done. I gather that Mr. Allen is going further with this investigation, at least to the extent of satisfying himself that a complete survey and report is, or is not, justified.

I have agreed to help him with his decision in this matter. Whatever pertinent information you can get from Mr. Matthews or from other sources will be kindly received here.

I am having the blue print photostated and will send you a copy tomorrow.

With best wishes, I am

Sincerely yours,

Earl K. Nixon

Director

EKN:vm

C.c.: Mr. A. V. Allen

November 20, 1937

Mr. Earl K. Nixon
704 Lewis Bldg.
Portland, Oregon
Dear Mr. Nixon:

I have waited until now to write to you for the reason that I wished to have my data complete on the Flagstaff problem.

I have not heard from Mr. Matthews but I found out that J.L.Fisher, who collaborated with Matthews in taking the samples, was in town, so I went up to see him.

After talking with him in general about the mine, I asked him how wide the vein was on the 360 foot level. He replied that as near as he could remember it was between 2and 3 feet. I then showed him the sketch map with its wide widths and large assay values and he was non-plussed. He said he could not understand it as it was not that way when he sampled through there.(by the way, he described the same sub-level conditions we found and said that is where he sampled)

He and Mattews also ran the Brunton survey--the sampling and surveying taking less than three days for the entire job--that in itself is evidence enough of the slip-shod method in which it apparently was accomplished. Mr. Fisher stated that he and Mathews were working for the Condor Mine at the time the survey and sampling was done and only did it as an accommodation for Kirkbride (the engineer who wrote the report) ~~and~~ who, I understand, was their boss at the Condor.

You, of course, already have the results of our first two assays. Where their assay is 7'wide $14.00, ours(#2) si 3' $1.58; their 6' $3.50 ours (#1) 2.5' $0.93.

I went down two outside shafts in order to find a big vein of reasonable values mentioned by Mr. Allen in a letter to Mr. Porteous. I found a 15 foot veinn striking roughly NW and dipping northerly (too obscured to get the true dip and strike). I sampled it in three sections as follows: (shaft is 60'deep)

#5--5.8' vein material-clayey gouge with very small amount of quartzy material-hanging wall side. Au 0.01 Ag 0.5

#6--next 5.2' west of #5--clayey gouge with a fair percentage of broken quartz. Au 0.12 Ag 0.4

#7--next 4.0' west of #6-brecciated white quartz with a small amount of hard quartz(easily fractured and broken) gougy matrix iron and manganese stained. May be true footwall but crosscut stops here. Au 0.12 Ag 0.5

I made a rough survey and tied this shaft (also the other one I went down) to the main shaft. However, upon platting them on the photostat I could not reconcile them with any of the workings thereon.

Samples #3 and#4 were taken in this other shaft which connects with the 260 foot level(?) someplace. Novvalues of any consequence were found in either one. #3-Au 0.04 #4-Au 0.01 (this last was a grab sample of the wall)

I feel that the Brunton sketch map is worthless along with the assays listed thereon and as Kirkbride's report was based on these results, it must also be largely discounted. I can readily see why operators have been going broke on that property if they have been working under any delusions secured from the ore values and quantities listed on that map.

If Mr. Allen is considering the mine he should have a complete underground transit survey made and a thorough sampling done by a competent engineer. The mine appeams to have possibilities but until the above work is done nothing further can be said.

I had intended writing about everything in general but will let that go until another time.

If you have the Sumpter quadrangle report in the office, I would appreciate having it sent over. I presume the Pine quadrangle is still in a process of formulation--the usual ten years has not elapsed as yet.

It has been raining steadily for four days, the roads, other than the main highways, being veritable quagmires. I have been bogged down twice and shied away several other times.

I am assuming that you will acquaint Mr. Allen with my findings.

With the very best of wishes for a pleasant Thanksgiving, I am

Sincerely yours

Albert V, Quine

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

704 LEWIS BUILDING
PORTLAND, OREGON

November 23, 1937.

Mr. Albert V. Quine,
Mining Geologist,
State Assay Laboratory,
Baker, Oregon.

Dear Mr. Quine:

Thank you very much for your letter of November 20th, giving detailed information on the Flagstaff Mine. This is fine. I agree with your conclusion. Mr. Allen is coming in this afternoon and I will acquaint him with the general situation without compromising us in any way.

As to using the blanks to get information on grubstakers, I am agreeable, with the reservation that I am not certain of the propriety of saying, "Failure to comply will be considered as a breach of contract. . . . ." Please advise me if Senator Strayer saw this and gave his approval of the statement as made. My offhand reaction is that this should be toned down a little.

I have written Mr. Webber that you will report here by wire as soon as you have anything to offer on the Sturgill manganese.

With best wishes, I am,

Sincerely yours,

Earl K. Nixon

Earl K. Nixon, Director

EKN:fas

December 15, 1937

Mr. Earl K. Nixon
704 Lewis Bldg.
Portland, Ore.

Dear Mr. Nixon:

I forgot to mention in my last letter that Mr. Matthews came in to see me regarding the Flagstaff sampling. His views were practically the same as Mr. Fisher's. The only large widths that he could remember sampling were those in the large stope.

I believe this concludes our responsibility, does it not?

Al

Sincerely yours

Albert V, Quine

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

STATE ASSAY LABORATORY
2102 COURT STREET
BAKER, OREGON

November 20, 1937

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704 Lewis Bldg.
Portland, Oregon

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Sincerely yours

Albert V. Quine

Albert V, Quine

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

STATE ASSAY LABORATORY
2102 COURT STREET
BAKER, OREGON

December 15, 1937

Mr. Earl K. Nixon
704 Lewis Bldg.
Portland, Ore.

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Sincerely yours

Al

Albert V, Quine

Flagstaff

April 9th, 1938

Mr. W. A. Chabert, M.E.,
Headquarters 1239th Company,
Civilian Conservation Corps,
Camp F 187, Avery, Idaho.

Dear Sir:

Information concerning the Flagstaff mine in Baker County is contained in a recent report upon "The Geology & Mineral Resources of the Baker quadrangle, Oregon". This publication is by the U. S. Geological Survey, Washington, D.C., and its number is Bulletin 879. There are about two pages in this bulletin upon the Flagstaff Mine. You can secure this by writing the U.S.G.S. at Washington, D.C. There may be a small charge, in which case you will be obliged to secure it from the Superintendent of Documents, Washington, D.C.

An early report is contained in the Hand Book of the Mining Industry of Oregon, published in December, 1916, which undoubtedly you can find in the University of Idaho library, or in the libraries at Spokane, Washington.

We have been told that Mr. A. V. Allen, 2221 N.W.Flanders Street, Portland, Oregon, has recently purchased this property. We have copies of engineers' reports on file in this office, which are not available for distribution. Reports are so conflicting with reference to values that any person thinking of purchasing this property should have a detailed examination and sampling of the property so that he might have accurate information secured by a representative of his own choosing.

We do not publish an annual report, but undoubtedly will publish a biennial report late this year, as required by law. We do, however, publish reports upon specific subjects and areas. These publications which are now available are shown upon the enclosed list. We are placing your name on our roll to receive notices of publication of the various issues from time to time.

I trust this information will be of some use to you.

Yours very truly,

A. M. Swartley,
Consulting Mining Engineer

AMS:fas

HEADQUARTERS 1239th COMPANY
Civilian Conservation Corps
Camp F-187, Avery, Idaho

RECEIVED
APR 7 1938
STATE DEP'T OF GEOLOGY
& MINERAL INDS.

April 5/38

Oregon Bureau of Mines,
Salem, Oregon.

Gentlemen,

Will you knidly send me any information you may have on the Flagstaff Mine, located near Baker Oregon. If you can not, where can I secure same. Also if you publish an annual pamphlet on the mining industry of Oregon, will you forward me a copy.

Respectfully,

W.A.Chabert, M.E.

#1 - .32
.61
.93

Location - Flagstaff Mine
365' Level
1st Sub-level above
45' NE from 1st chute
Drift-NE of X-cut - Big Vein

Au .01
Ag .8

Wd 2.5'

Au Ag W.

A.V. Guinn

Taken by
E.K. Nixon
A.V. Guinn

2221 N.W. Landers
Port.

11/10/37

#2 Au 0.04
Ag 0.4

Location — Flagstaff Mine
365' Level
1st Sub-level above
15' NE from 1st chute
Drift-NE of X-cut - Big Vein

1.28
.30
$ 1.58

Wd 3.0'

Taken by
E.K. Nixon
A.V. Guinn
11/10/37