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Cheyenne, Wyo., December 11th, 1902.

HON. DeFOREST RICHARDS,
Governor of Wyoming,
Cheyenne.

DEAR SIR:-

In accordance with Section 7, Chapter 45, Session Laws of Wyoming, 1901, I have the honor to hand you herewith my report on work done as state geologist for the years 1901 and 1902, together with such recommendations for the improvement of the mining and allied industrial conditions in Wyoming, as my experience in this work has shown to be for the best interest of these industries, and which I trust will receive your consideration.

Very truly yours,

Henry L. Beeler

State Geologist.

REPORT OF STATE GEOLOGIST.

1901 - 1902

The office of State Geologist was allowed to lapse from the time of the entrance of Wyoming into statehood in 1891 until the Legislature of 1901 passed a law reviving the office and providing special duties to be performed.

During the first part of this period of ten years but little attention was paid to mining in Wyoming, except in scattered instances, and it was not until the copper resources of Southern Wyoming began attracting the attention of investors in the various older mining camps of the west, that a demand arose for the re-establishment of the office, and, in recognition of the growing importance of mining in Wyoming, its phenomenal growth and advance in the past four years and in response to a general petition presented to the Governor from the Mining Interests of the State, the following law, providing for a State Geologist and prescribing his qualifications, duties, etc., was passed and took effect immediately.

CHAPTER 45, SESSION LAWS OF WYOMING, 1901.

House Bill No. 19.

An act to provide for a State Geologist and prescribing the qualifications, duties and compensation of that officer.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WYOMING:

Appointment of.

Section 1. There shall be a State Geologist of the State of Wyoming who shall be appointed by the Governor by and with the consent of the Senate. He shall hold his office for the term of six years or until his successor shall have been appointed and qualified.

BOND AND OATH.

Section 2. Before entering upon the duties of his office, the State Geologist, so appointed as hereinbefore provided, shall take the oath required by the constitution of this State and shall give a bond to the State of Wyoming with sureties to be approved by the Governor in the sum of two thousand dollars, conditioned for the faithful performance of the duties of his office,

REMOVAL OF.

Section 3. The Governor shall have the power to remove from office any person appointed to the position of State Geologist for cause. The grounds for which shall be in writing and filed in the office of the Secretary of State.

DUTY OF.

Section 4. It shall be the duty of the State Geologist to make reports on mining property where a proper certificate has been presented showing sufficient development and upon the payment of fees hereinafter prescribed, and his reports shall be in such form as is usually required by mining exchanges, for the purpose of obtaining a working capital, provided that such property shall be deemed by the State Geologist of sufficient value to warrant a favorable report. It shall be the duty of the State Geologist to collect official information relating to the various mines and mining projects of the State and to publish and circulate such information as he may deem advisable for advertising the mineral wealth of the State and also to take any steps which would be likely to advance the development of the mining industry. It shall be the further duty of the State Geologist to examine free of charge all specimens of rock of mineral formation, and to name and classify such specimens so far as it be in his power, without an assay, and to make returns to the person sending the same. He shall ex-officio perform the duties of Inspector of Mines until otherwise provided by law.

FEES.

Section 5. For the examination of a mere prospect, the State Geologist shall charge the sum of \$25.00 and for the examination of a mine having development work to the amount of two hundred feet, and less than five hundred feet, the sum of \$50.00. For all mines having development work amounting to more than five hundred feet he shall charge the sum of \$100.00, the said funds to be paid in advance by the person or persons requesting said examination. It shall be the duty of the State Geologist to pay over to the State Treasurer every ninety days all funds that may come into his hands by reason of the duties of his office.

RECORD REPORTS.

Section 6. It shall be the duty of the State Geologist to keep a book with proper index, alphabetically arranged, in which he shall record all reports made by him, giving the name of the mine owner, the name of the mine, where situated, kind of mine, whether gold, silver, copper or other mineral.

REPORTS.

Section 7. It shall be the duty of the State Geologist to make a report annually, under his hand, of all reports and examinations made during the year, to the Governor of the State, who shall report the same to the Legislature.

SALARY.

Section 8. The State Geologist shall receive an annual salary of \$2,400, to be paid monthly by the State Treasurer upon warrant of the State Auditor for this purpose.

DISQUALIFY.

Section 9. No person holding a pecuniary interest in a mining property in this State shall be eligible to fill or hold the office of State Geologist.

REPEAL.

Section 10. All Acts or parts of Acts inconsistent with this Act are hereby repealed.

Section 11. This Act shall take effect and be in force from and after its passage.

Approved Feby 16th, 1901.

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OBJECT OF LAW.

The whole aim and object of this law was to provide means for interesting capital in the undeveloped mineral resources of the state and to aid in every way the legitimate development of mines and quarries in Wyoming.

To this end provision was made in Section 4 to place within reach of the miner and prospector the services of an unbiased and competent mining engineer and geologist who, for a small fee, would examine and report upon the various mining properties, this report to be used in obtaining capital to develop the property, and further to give such other advice and assistance to the owners of mines and prospects as would lead to the economical development of their properties.

APPOINTMENT OF GEOLOGIST.

Under this law the present incumbent was appointed May 31st, 1901, and immediately qualified as provided, by taking the required oath and filing the necessary bond of \$2,000 with the Secretary of State.

On entering upon the duties of the office, it was found that none of the records of the former Territorial Geologists, aside from a few copies of reports, etc., were available and it was therefore necessary to begin the work of the office upon an entirely new basis.

CONSTRUCTION OF LAW.

It has been the effort of this office to construe as liberally as possible the provisions of the law and in response to a general inquiry regarding the limits of each class of fees and definition of development work, the following circular was issued June 20th, 1901:

CIRCULAR.

PROSPECT.

Any mining property not having more than two hundred feet of development work done thereon, shall be considered as a prospect and the fee for examination shall be twenty ^{five} dollars.

MINE.

For the examination of any mining property having more than two hundred feet of development work done thereon, the fee shall be not less than fifty dollars nor more than one hundred dollars, to be determined by the amount of development work done thereon.

DEVELOPMENT.

The word "development" is construed to mean work done to reach and determine the size, extent or value of a vein or ore-body and not such disconnected prospecting work as may have been done at various times and places on the claims and afterwards abandoned.

If the vein or ore-body shall have been opened or cut at two or more places on the claims for the purpose of determining the continuance and further extent of the ore, the fee for examination shall be determined by the total number of lineal feet of the separate works.

LIMIT OF FEES.

The fees provided in Section 5 are understood to refer to a formal examination and report upon a claim or group of claims, and not to a verbal opinion given when visiting a property or in reply to a question regarding a property already *visited or examined.*

DUTY OF GEOLOGIST.

In Section 4 it is provided that the principal duty of the State Geologist shall be to examine and make reports upon mining property and this has been made the chief business of the office.

REPORTS MADE.

Applications have been received and reports made upon twenty-two properties, located in four counties of the State and representing a varied condition of ore occurrence and geological conditions.

The following is a statement of the examinations made and fees received, together with a short description of each report.

STATEMENT OF FEES RECEIVED AND REPORTS MADE.

(June 1st 1901 to Dec. 1st 1902)

| <u>Number.</u> | <u>Date.</u> | <u>Fee.</u> | <u>Description.</u> |
|----------------|----------------|-------------|---|
| 1. | July 12, 1901. | \$100.00 | For W.E.Mouck. Octavia group, owned by the Octavia Mining Co. Carbon county. A brief general report stating conditions of formation, etc., showings in tunnel and on surface. |
| 2. | July 15, 1901. | 25.00 | For the Eagle Copper Co., Gertrude group. Carbon county. Brief report on surface, workings and mineralized ledge. Further work recommended. |
| 3. | July 17, 1901. | 25.00 | For the Beulah Copper Company. Beulah group. Carbon county. Report on prospect crosscut tunnel being run to cut contacts of schist and mineralized dykes shown on surface. |
| 4. | July 17, 1901. | 25.00 | For J.D.C.Krueger, et al. Iron King No.2 group. Carbon county. Report on surface showings, outcrops, etc. |
| 5. | Aug. 7, 1901. | 25.00 | For M.H.McKusick, et al. Bonita group. Carbon county. Report on surface showings and outcrops only as group is undeveloped. |
| 6. | Aug. 14, 1901. | 25.00 | For the Fremont Copper Co. Copper Gem group. Carbon county. Brief general report on surface showings and workings as far as accessible. |

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|-----|----------------|-----------------------------------|---|
| 7. | Aug. 25, 1901 | 50.00 | For the Kearns Consolidated Copper Mining Co. Kearns Group. Carbon County. A brief general report on showings made and geological conditions noted. |
| 8. | Sept. 3, 1901. | ⁵⁰ 25.00 | For the Cooney Hill Gold and Copper Mining and Milling Co. Cooney Hill Group. Laramie County. General report on geological conditions existing and showings made both in the main workings and on the undeveloped adjacent claims of the group. |
| 9. | Oct. 3, 1901. | 25.00 | For F.W. Mondell. Sage Creek Coal Fields. Big Horn County. A brief and general report on the geological conditions noted, stating the natural divisions of the field and giving analyses made of samples from prospect holes on the various veins. |
| 10. | July 22, 1901. | 25.00 | For Otto Gramm. Home Placer. Albany county. A general report on the conditions of extent, location and condition of gravel, etc. |
| 11. | Feb. 18, 1902. | 25.000 | For J.J. Hauphoff, C.A. Wright, et al, owners. Jehosephat Group. Laramie County. Brief report on surface and mineral conditions, also giving assays of samples taken from workings accessible. |
| 12. | May 8, 1902. | 25.00 | For the Esterbrook Mining Co. Esterbrook Group. Albany County. Report upon surface and geological conditions as shown by workings accessible at time of report with general description of working conditions and statement of grade of ores already shipped. |
| 13. | June 12, 1902. | 25.00 | For J.T. Meals; J.P. McCarthy, owner. Big Chief Group. Carbon County. A brief report on general geological and surface showings, stating location, extent and relation to adjacent workings. |
| 14. | July 11, 1902. | 25.00 | For the Elk Mountain Mining and Milling Co. Elk Mountain Group. Carbon County. General report on the geological conditions noted, the extent and character of vein, workings and ore, and also stating shipments made as per smelter receipts exhibited. |

| | | | |
|-----|-----------------|-------|---|
| 15. | Aug. 11, 1902. | 25.00 | For H.C.Sauls. National Copper Mining Co. Eureka Group. Albany county. Brief surface report of outcrops and general formations noted, and giving description of ore found at or near surface. |
| 16. | Aug. 25, 1902. | 25.00 | For the Blanche Mining Co. Blanche Group. Albany County. Report on surface conditions and work done in prospecting, also showing made in 25' shaft sunk on ledge. |
| 17. | Aug. 19, 1902. | 25.00 | For the Chicago-Venture Mining Co. Mohawk Group. Carbon County. A brief general report on the formations noted, the showings in the main workings and general conditions of development. |
| 18. | Aug. 20, 1902. | 25.00 | For the Monarch Copper-Gold Co. Monarch Group. Carbon County. A brief report on formations shown and general conditions noted on surface, as group is undeveloped. |
| 19. | Sept. 11, 1902. | 25.00 | For E.L.Wheeler; O.C.Blaeken, et al, owners. Waterloo Group. Carbon County. Brief general report upon location, geological formations shown and conditions noted, in forty foot shaft. |
| 20. | Sept. 13, 1902. | 25.00 | For the Badger State Mining and Milling Co. Gold Coin group. Carbon County. Report upon showings noted in main workings, of geological formations and general development conditions. |
| 21. | Oct. 19, 1902. | 50.00 | For the Globe Copper Mining Co. Globe Group. Laramie County. Brief report upon geological conditions, occurrence of ore, extent of workings, description of steam plant and development conditions. |
| 22. | Oct. 24, 1902. | 25.00 | For T.G.Vent; N.C.Bowen, et al, owners. Lena Shields Group. Carbon County. Brief report upon the surface and geological features, the ledges noted and conditions of future development. |

Total Fees, \$700.00

DISPOSITION OF FEES.

The fees received for the foregoing examinations amounted to \$700 as above and have been paid over to the State Treasurer as provided in Section 5 and the usual receipts taken and filed with the State Auditor.

PRESENT CONDITION OF THESE PROPERTIES.

Of the twenty-two properties officially reported upon as above, twenty are lode claims, eleven of which are actively at work, six are idle except for keeping up assessment work and three preparing to proceed with development work.

Three of these properties have made shipments of ore at various times, the majority of which have been taken out in development or preliminary work, sorted to a profitable grade and shipped at convenient intervals.

One preliminary report upon placer workings was made, dealing with surface and economical conditions.

A similar report upon the Sage Creek Coal Fields in Big Horn County, was also made, dealing with geological conditions, feature of out-crops, probable extent of field and quality of coal as shown by the present workings.

In general, these reports dealt only with surface and mineral conditions, development work having as a rule been limited and the properties might all be defined as prospects, as none of them have been sufficiently opened up to show ore reserves or to be steady producers.

LOCATION OF PROPERTIES EXAMINED.

It will be seen that the greater number of calls for the services of this office came from Carbon County properties and of necessity a greater portion of the time spent in the field was in that locality, fourteen examinations having been made of properties situated in that County, twelve of which are located in that portion of the County lying southerly and westerly of Encampment and two in the eastern portion, east of Saratoga.

Four examinations were made in Albany County, two in the southwestern portion near the Rambler mine and two in the extreme northeastern corner near the Laramie-Converse County lines, thus representing the two best known districts in this county.

The three examinations in Laramie County are scattered in the three best known localities, viz:-Silver Crown, Hartville and Cooney Hill. Big Horn County is represented by the special report on the Sage Creek Coal Fields as already stated.

FORM OF REPORT.

The form of report prescribed in Section 4, has been drawn up to comply as far as possible with the requirements of the work and was used in all but five cases, where either the applicants requested the report to be in the form of a letter or the conditions could be better presented in the latter form.

RECORD OF EXAMINATIONS.

The record of examinations made and fees received by this office as provided in Section 6, has been carefully compiled to suit the requirements stated and each examination and amount of fee entered therein. Aside from this record, duplicate copies of all above reports and other works have been retained and filed for reference or inspection.

All other records, expenditures and correspondence has been carefully kept in the manner provided for the keeping and preservation of all state accounts.

EXAMINATIONS WITHOUT REPORTS.

In order to place the office in active touch with the actual mining in the State, the most prominent mining centers have been visited and, as far as possible, the different working properties inspected.

This work was taken in connection with the regular paid examinations of the office, except in a few instances where considerable activity in mining was noted and it was considered desirable to make a personal visit to become posted on the actual situation in each case.

Owing to the limited amount available for the expense of this work and the fact that the calls for the reports came at irregular intervals, thus breaking up the time in which this work could be done, it has not been possible to canvass all the properties in each district or to visit all the mineral localities of the state.

No trouble has been spared to afford to those interested in the mineral industries all the assistance possible in the development of their interests and to aid them in every way that would promote the welfare of the district and the state.

In this work one hundred and thirty-eight different working properties, located in six counties of the state, have been visited, the time spent at each varying under the circumstances, from a casual inspection of a new project to a visit of several days duration at the more developed properties.

In most cases the owners were anxious to have their properties inspected and advice was frequently asked regarding formations noted, and methods of working to be pursued where a formal report was not required or desirable at the time.

As far as possible, a record was kept of these visits and has been used in the work of the office, a copy of which is herewith given.

A LIST OF MINING PROPERTIES VISITED DURING FIELD WORK.

1901 - 1902.

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CARBON COUNTY.

| <u>Name.</u> | <u>Owner.</u> | <u>Location.</u> |
|--------------------|---------------------------|------------------------------|
| Aetna, | Aetna Mining Company, | Beaver Creek. |
| Blackfoot, | Blackfoot M. & M. Co. | Cow Creek, Battle. |
| Bay Horse, | Bay Horse Copper M. Co. | Beaver Creek, Riverside. |
| Burton, | Burton Consldtd C.M.Co. | North Fork Encampment river. |
| Beaver, | Beaver C.M.Co. | Beaver Creek, Collins. |
| B - B, | Wm Blakeslee, | N.Fk Snake river, Battle. |
| Tunnel Site, | Battle Lake Tun.Site Co. | Spring Creek, Battle. |
| Big Creek, | Big Creek C.M.Co. | Wyoming-Colorado line. |
| Continental, | Continental C.M.Co. | Cow Creek, Battle. |
| Crescent, | Crescent Copper Co. | Encampment. |
| Calumet, | Calumet M. & M. Co. | Encampment. |
| Co-Operative, | Co-Operative M. & M. Co. | Encampment. |
| Charter Oak, | Charter Oak Co. Limited | Encampment. |
| Copper Mountain, | Copper Mountain M.Co. | Rudefeha. |
| Copper Age, | Copper Age M.& S.Co. | Cow Creek, Battle. |
| Evening Star, | Evening Star M. Co. | Beaver Creek, Collins. |
| Great Lakes, | Great Lakes M.& S.Co. | Encampment. |
| Rudefeha, North Am | North American C.Co. | Rudefeha. |
| Hidden Treasure, | Hidden Treasure M.& TS Co | Battle. |
| Imperial, | M.F.Whelan, | Rudefeha. |
| Kurtz-Chatterton, | | Encampment. |
| Molly Hill, | Molly Hill G.M.& M.Co. | Purgatory Gulch. |
| Cascade, | Thomas Madden, | Encampment. |
| Mammoth, | Mammoth C.M. Co. | Jack Creek, Saratoga. |
| Michigan Boy, | Mich.Boy M.& M.Co. | Bridger M't, Battle. |
| Lone Fisherman, | Stuart Edgar, | N.Fk. Snake river, Battle. |

| Name. | Owner. | Location. |
|--------------------|--|---------------------------|
| Leadville, | N.Fk.Copper M.Co. | N.Fk.Snake river, Battle. |
| Oceola, | Oceola Mining Co. | Rudofeha. |
| Oceola, Jr. | Oceola, Jr. Mining Co. | Rudofeha. |
| Ruby, | Ruby C. & G.M.Co. | Beaver Creek, Collins. |
| Doane-Rambler, | Bat.Lake Tun. Site Co. | Rambler. |
| Syndicate, | Syndicate M.Co. | Savery Creek, Rudofeha. |
| Verde, | Verde M. & M.Co. | Battle. |
| Wagner-Green, | Wagner-Green M. & M.Co. | Big Creek. |
| Cox, | Wyo. Consld C. Co. | Big Creek Collins. |
| Gold Hill, | Wyo. Dev. & Trans. Co. | Laramie. |
| Leighton-Gentry, | Leighton-Gentry Co. | Jack Creek, Rudofeha. |
| Calumet, | Battle Creek and Battle Lake Mining Co. | Rambler. |
| Richardson, | Minnie-Mable G & C.M.Co. | Rambler. |
| Sunrise, | Geo. Glanden, et al. | Battle. |
| Keener-Price, | J.O.B.Keener, et al, | Battle. |
| Saratoga, | A.N.Prosser, | Battle. |
| Lake of the Woods, | Stiltz & Downing, | Battle. |
| Last Chance, | Charles Fletcher, | Battle. |
| Nannie, | Sweet and Cling, | N.Fk.Encampment river. |
| Gant, | Jos. L.Gant, | Rudofeha. |
| Big Swede, | F.L.Selstran, et al. | Battle. |
| Batchelder, | Ira Batchelder, et al, | Rudofeha. |
| Alchemist, | G.H.Smith, | Battle. |
| Last Chance, | Wm Platt, et al. | Collins. |
| Gold Center, | Ball and Morgan, | Purgatory Gulch. |
| Clouse, | John L.Sapp, | Purgatory Gulch. |
| Allers, | O.S.Allers, et al. | Purgatory Gulch. |
| El Rey, | El Rey G. & C.M.Co. | Purgatory Gulch. |
| Comstock, | J.D.C.Krueger, et al. | N.Fk.Snake river, Battle. |
| Hercules, | Hercules Mining Co. | Battle. |

| Name. | Owner. | Location. |
|-------------|-----------------------|------------------------|
| Portland, | Battle Copper M.Co. | Battle. |
| Rose Creek, | Wm Clancy, | Battle. |
| Silver Bow, | Thomas and Dillon, | Battle. |
| Jessie, | C.J.Henderson, | Hog Park. |
| Newsboy, | Newsboy Mining Co. | Beaver Creek. |
| State Line, | State Line Co. | Wyoming-Colorado line. |
| Finley, | Phil Lee, et al, | Encampment. |
| Penobscot, | Mutual G.& C.M.Co. | Rudofeha. |
| Creede, | Creede C.M.Co. | Rudofeha. |
| Bohemian, | Sol Finks, et al. | Rudofeha. |
| McCormick, | McCormick, et al. | Rudofeha. |
| Jasper, | AK-Sar-Ben Copper Co. | Iron Creek. |
| Lost Boy, | G.Morrison, et al. | Iron Creek. |
| Sweetheart, | Grant Jone, et al. | Cow Creek, Battle. |
| Utemeo, | Continental Co. | Cow Creek, Battle. |

FREMONT COUNTY.

| | | |
|------------------|----------------------|------------------|
| Mary Ellen, | South Pass M.& M.Co. | Atlantic. |
| Meadow Gulch, | J.Waite, et al, | Miner's Delight. |
| Miner's Delight, | J.D.Woodard, | Miner's Delight. |
| Ground Hog, | Samuel Spangler, | Atlantic. |
| W.J.Bryan, | R.M.Ricketts, | Atlantic. |
| Ruby, | D.D.Wolf, | Lemiston. |
| Tabor Grand, | N.A.Baker, | Atlantic. |
| Jim Dyer, | Judge McAuley, | Atlantic. |
| Curry, | Mrs. Ellen Bilcox, | South Pass. |
| Huff Tunnel, | J.J.Huff, et al, | Atlantic. |
| Garfield | L.L.Geisler, et al. | Atlantic. |
| Little Joe, | J.M.Becker, et al, | Atlantic. |

| Name. | Owner. | Location. |
|------------------|-------------------------|------------------|
| Rustler, | S.Poteet, | Atlantic. |
| Lone Star, | Poire estate, | Atlantic. |
| Bates and Wygal, | Bates and Wygal, et al, | Atlantic. |
| Vosburg, | Elmer Vosburg, | South Pass. |
| Gold Creek, | Wm Reninker, | South Pass. |
| Strawberry, | O.E.Minium, | Lewiston. |
| Burr, | J.D.Woodruff, | Lewiston. |
| Iron Duke, | Granier & Co. | Lewiston. |
| Hidden Hand, | W.Grovesnor & Co. | Lewiston. |
| Carissa, | Federal G.M.Co. | South Pass. |
| Pay Rock, | Benton and McGraf, | Miner's Delight. |
| Prospect, | G.Hoysington, et al, | Atlantic. |
| Placer, | Christina Lake M.Co. | Atlantic. |

ALBANY COUNTY.

| | | |
|----------------|---------------------|------------------------|
| Blackstone, | A. Holmes, et al, | Holmes. |
| Cuprite, | Cuprite M.Co. | Holmes. |
| Duchess, | Duchess M.M.& S.Co. | Holmes. |
| Golden Reward, | Newell Bros. | Spring Hill. |
| Jupiter, | Jupiter M.Co. | Holmes. |
| Great Rambler, | Rambler M.& S.Co. | Holmes. |
| Pyramid, | Pyramid M.Co. | Pyramid-LaBarte Creek. |
| Tenderfoot, | G.W.Johnson, et al, | Spring Hill. |
| Independence, | C.S.Johnson, | Pyramid-LaBarte Creek. |
| Iron Ledge, | A.D.Lee, | Pyramid-LaBarte Creek. |
| Magpie, | Saunders Bros. | Centennial. |
| Prospect, | P.H.Milburn, | Centennial. |
| Keystone, | Young, | Keystone. |
| Prospect, | A.D.Lee, et al. | Pyramid-LaBarte Creek. |

ALBANY COUNTY.

(Continued)

| <u>Name.</u> | <u>Owner.</u> | <u>Location.</u> |
|--------------|-----------------------|------------------------|
| LaBonte, | W.J.Mecum, et al. | Pyramid-LaBonte Creek. |
| Prospect, | Chas. Kuster, et al. | Snowy Range. |
| Prospect, | Hamilton, Webb et al. | Snowy Range. |

BIG HORN COUNTY.

| | | |
|----------------|-------------------------|---------|
| Spar Mountain, | Spar M't M.Co. | Kirwin. |
| Spar Gulch, | Thomas Brown. | Kirwin. |
| Silver Wave, | Charles Brumel, | Kirwin. |
| Henry Group, | Peter Peterson, et al. | Kirwin. |
| Bear Gulch, | John Joyce, | Kirwin. |
| Dundee, | C.J.Tewksbury, et al. | Kirwin. |
| Pickwick, | | Kirwin. |
| Galena Ridge, | Henry Schnitzel, et al. | Kirwin. |
| Tumalum, | Wyoming Mining Co. | Kirwin. |

LARAMIE COUNTY.

| | | |
|---------------|----------------------|------------|
| Slate Creek, | Slate Creek M.Co. | Wheatland. |
| Sunrise, | Colo. F.& I.Co. | Sunrise. |
| Prospect, | Joseph Calais, | Guthrie. |
| Empire, | F.A.Stitzer, et al. | Hecla. |
| | T.Grant, et al, | Hecla. |
| Exchange, | J.D.Kazar, | Hecla. |
| Modoc, | I.S.Bartlett, et al. | Hartville. |
| Independence, | M.M.Montgomery, | Wheatland. |
| Gold Nugget, | Cole, et al. | Wheatland. |

CONVERSE COUNTY.

| Name. | Owner. | Location. |
|-------------|------------------------|---------------|
| Manhattan, | Paul Spehr, et al. | Douglas. |
| Jasper M't. | H.R.Mewis, et al. | Douglas. |
| Hazenville, | George Newsome. | Douglas. |
| North Star, | Western Oil Co. et al. | Douglas. |
| Elk M't. | John Foxton, | Elk Mountain. |
| Prospect. | John Caffey, | Douglas. |

SUMMARY.

An inspection of these lists shows the properties visited were situated as follows:

| | |
|--------------------------|----------------|
| In Carbon county,----- | 73 properties. |
| In Fremont county,----- | 25 properties. |
| In Albany County,----- | 17 properties. |
| In Big Horn County,----- | 9 properties. |
| In Laramie County,----- | 9 properties. |
| In Converse County,----- | 6 properties. |
| Total, ----- | 138 |

FIELD WORK ASIDE FROM METAL MINING.

In response to inquiries received regarding the existence and occurrence of the "soap clays" in the north central part of Weston County along the line of the Burlington R.R. a visit was made to that locality, the formations inspected and samples of the clays obtained which have been forwarded in varying quantities to several firms interested in these products, but no formal report has been issued on this work.

At various times, when in Newcastle, the oil lands lying adjacent to that city have been visited and conference had with the owners of the various holdings, regarding their proposed drilling and prospecting operations but no reports were made on this work.

Similar work was also done in the oil fields of Converse County, around Douglas, where the several working rigs and accessible outcrops were visited when in that vicinity and the owners advised regarding the details of formation, etc.

A visit to the Bonanza oil fields near Basin, Big Horn County, was made in connection with a special trip to Kirwin mining districts and at the same time the oil outcrops at Cody were inspected and drilling conditions, etc. noted.

Rock Springs, in Sweetwater County, was visited twice, once for the purpose of a report upon coal lands, but as the property was not in condition to be reported upon, a memorandum was given referring to various state publications and other data affecting the quality, etc. of the coal of that field in general, for which no charge could be made. The second trip was to investigate the report of oil occurrences in the shale beds north and west of the town but the visit was casual and no report was made.

STATE PUBLICATIONS.

In connection with the above general work, the office has circulated the various publications of the State at every opportunity and in every way possible has endeavored to promote the progress of the mineral industries of Wyoming.

CLASSIFICATION OF SPECIMENS.

Numerous specimens of rock and other mineral formation have been submitted and classified as provided in Section 4, but no valuable or rare mineral specimens have been received for this purpose, as the most of these requests for classification of minerals came during the foregoing work in the field and a great many were casual and unimportant. No record has been kept of this work for the above reason, the object being to afford assistance to the prospectors and others in the identification and probable value of the minerals submitted, that they might not waste time in looking for values that didnot exist, and become better posted on the minerals encountered.

COLLECTION OF MINING STATISTICS.

Statistics regarding mining and kindred industries in Wyoming are meager and have, as a rule, been derived from estimates made up, from time to time by persons more or less interested in the promotion of these industries and are therefore fragmentary.

As a beginning in this work, blanks have been sent out each year to the different mining companies and others interested in the industries regarding their works, amount of production, etc., and the data so obtained, though limited, has been filed and used in the work of the office.

By this means the office has been brought in direct contact with many of the working properties of the various scattered and outlying portions of the State that are but little heard of and has thus been enabled to afford information to inquiring investors regarding these localities.

WORK AS EX-OFFICIO INSPECTOR OF MINES.

Recommendations have been made at various times when visiting mining properties, regarding the proper securing of ground against caving and other accidents which are liable to occur at any time. No police authority is given the State Geologist when acting, ex-officio, as Inspector of Mines, and no enforcement of necessary precautions in operating mines may now be secured.

ACCIDENTS IN MINES.

The accidents which have occurred in the metal mines of the State during the past two years, have happily been few in number and, with only two known exceptions, have been of minor importance and those injured were promptly taken care of.

Two men were suffocated in the breast of the Crescent Tunnel near the Kurtz-chatterton mine by the burning of the tunnel house. This occurred during the night shift and from the position of the bodies when found, the men apparently made no effort to escape.

The premature explosion of a blast in the Verde Shaft, six miles south of Battle, seriously injured a miner named Geo. Glandon, whereby his sight was destroyed and other injuries sustained.

In this case, the miner was an experienced and careful man, accustomed to the use and danger of explosives and every effort was made by those in charge to afford him every attention possible.

Other accidents have doubtless occurred but were not reported as no authority is at present given this or any other office to act in such cases and nothing could be done in investigating the cause or to require a report of the accident.

LEGISLATION NEEDED TO PROTECT LIFE IN MINES.

It is strongly recommended that proper legislation be enacted as soon as possible, which will enable the State to regulate the operation of metal mines, the storage and handling of violent explosives, provide for a uniform code of mine signals and adopt such other measures as may be necessary for the proper protection of those engaged in mining, and provide for the regular inspection of hoists and other machinery used in this work.

Owners of properties should be required to report to this office at once any accident occurring in their workings, giving the names, ages, occupation, etc., of those injured, the cause of the accident, extent of injuries and other details of the occurrence.

The office should be further empowered to obtain from the coroner of each county, in case of fatal accidents, a copy of the inquest proceedings and findings of the coroner's jury, in order that proper statistics may be kept and any action taken that may be necessary to guard against a repetition of the accident.

EXPENSES OF OFFICE.

As only \$1000.00 was appropriated for the contingent expenses of this office, (under the usual restrictions) no regular geological work could be attempted and the foregoing work was carried on in a restricted manner in order to make the amount available reach as far as possible.

The expense of this work is shown by the following statement, taken from the Expense Register of the office;

STATEMENT OF EXPENDITURES, MAY 31, 1901 TO SEPT. 30, 1902.

Amount of Appropriation,

\$1000.00

Expenditures;

| | |
|-----------------------------------|------------------|
| Traveling Expenses, | \$290.65 |
| Board while traveling, | 212.80 |
| Postage and Telegraphing, | 53.65 |
| Records, Stationery and Printing, | 171.25 |
| Office Furniture, | 99.00 |
| Miscellaneous Items, | 26.70 |
| Total to Sept. 30, 1902, | <u>\$854.05</u> |
| Add. Exp, Dec. 11, 1902. | 10.45 |
| Total to Dec. 11, 1902, | <u>864.50</u> |
| <u>Balance on hand</u> | <u>\$ 135.50</u> |

A BRIEF REVIEW OF THE MINING INDUSTRY

It may of general interest to state briefly the present condition of the Mining Industry in Wyoming, without attempting to take up geological features or discussions.

At no time in the history of mining in this State has this industry been so extensive and prosperous as at the present time.

Each county in the state has reported some activity in this line within its borders and in several instances, this development has reached a permanent basis with every prospect of a profitable future.

SOUTHERN WYOMING.

The greatest activity has been noted in the south central part of the State, in that portion covered practically by the southern halves of Carbon and Albany counties, lying south of the Union Pacific railroad and which is popularly known as the "Grand Encampment Copper regions."

This region embraces the Sierra Madre and Medicine Bow ranges of mountains with small adjacent uplifts divided by the broad valley of the North Platte river, which at this point flows north-westerly in the same general direction as the adjacent mountain ranges. The two principal natural divisions are again subdivided by their minor natural features, such as creeks and the included divides, into smaller sections where the different camps have been established whose locations have been determined by the readiest routes of access from the common point of supply and communication. Prospecting has been carried on in this region for many years and considerable work had been done, notably in the Kurtz-Chatterton mine on the North Fork of the Encampment river and in some properties on the Snowy Range on the Carbon-Albany Countyline but the present state of affairs began in gold discoveries in 1898 in Purgatory Gulch, a small tributary of the South Fork of Encampment river. But these were not developed at the time and when the Doane-Rambler on the south fork of Battle Creek at Battle Lake and the Ferris-Haggarty copper discoveries were made about the same time, the attention of mining men was turned to copper as

the principal value sought, with the result that several millions of dollars have been attracted to this section for investment and the results of this investment are beginning to be shown in the development of the mines of the district.

For the years 1898 to 1901 the general development of the mines was slow, owing to the lack of transportation facilities and other physical drawbacks, and also to a lack of confidence in what has since proven to be a great mineral district.

During this period the Doane-Rambler and Ferris-Haggarty mines made regular shipments of their high grade ores to the eastern smelters and in December, 1900, shipments were begun from the Great Rambler at the head of Douglas creek in Albany county.

These shipments were continuous until the decline in the price of copper made it unprofitable to continue, owing to the long haul to the railroad, practically fifty miles in each case under conditions antagonistic to economical management.

Although shipments out of the district have been light for the past two seasons, general development of the newer properties has been vigorously pushed in nearly all of the camps, machinery for hoisting and pumping has been installed and the results of this systematic and persistent work are now beginning to be apparent in the different properties.

The Encampment district is passing through a most critical period of its existence, the time between the realized hopes of the surface prospector and the beginning of the operation of a mine, which period is necessarily one of expensive and slow progress in the mine's development and calls for continued faith and energy upon the part of those interested in the welfare of the district.

ROAD BUILDING.

Perhaps the greatest general benefit conferred upon the mining interests during the past year has been the building of roads to connect these outlying camps and points with the main centers of travel, thus affording

a ready means of ingress to those interested in this industry whether investor or prospector.

It is estimated that in the past few years over 500 miles of actual made roads have been built in this Southern Wyoming district alone, connecting the different new camps and older towns or districts, of which nearly 60% or 300 miles have been built in the last two seasons.

The extent of this work and its important bearing upon the whole interests of the State may be better understood when the difficult and mountainous nature of the country so opened up is taken into consideration. The major part of these roads have been originally built by private enterprise, by public subscription or co-operation with the authorities and in many cases the counties have made these roads and keep them as such.

In a country isolated from railroad communication, as the mining districts of Wyoming are, the construction and proper condition of wagon roads are of primary importance in the welfare and advancement of the community and state., as it is a recognized fact that investors will not consider the inspection of a property that involves very much personal discomfort to them or in operation, requires much contending against the difficulties of transportation.

CARBON COUNTY.

ENCAMPMENT.

The town of Encampment may well be considered the center of Southern Wyoming mining, both geographically and financially. The situation of this town at the forks of the Grand Encampment river on the west side of the North Platte valley, affords an excellent gateway to the different districts and camps, and here are located the headquarters of many of the companies operating in this region.

The building of the Boston-Wyoming tramway from Encampment to the Ferris-Haggarty mine, a distance of sixteen miles over the roughest and highest portion of the Sierra Madre range, to furnish a constant supply of smelting ores to the smelter at the former point and which is now

being supplemented by an extensive plant for concentration of low grade ores to a grade admitting of profitable treatment to the highest grade of blister copper, has been a great factor in the upbuilding of this section.

These works with their allied enterprises of water systems and power plants represent an actual cash outlay of \$750,000.00 and this is but a part of the money invested in actual work in the past two years.

Ore of a grade sufficiently high to admit of shipment to local centers of treatment is being held in numerous properties until the commencement of operations in the above works and no fears are entertained by the owners of these plants as to the prospective supply of ore.

Here it may be noted that the building of these works afforded profitable employment to numbers of men, many of whom were thus enabled to hold on to their prospects and continue their development work by the money so obtained and the preliminary run made by the Encampment smelter last year afforded an opportunity for a number of small owners to promptly realize on the ores taken out from time to time, thus contributing in a marked degree to the prosperity of the outlying camps.

WEST OF ENCAMPMENT.

The North Fork of the Encampment river has been an active portion of the district this year and continues to be so. The Kurtz-Chatterton has been quiet this year but a number of the other owners have been improving their claims in a substantial manner and are prepared to go ahead with the further development work.

BATTLE AND VICINITY.

Battle is situated on the Continental Divide midway between Encampment and the Ferris-Haggerty mine and is practically the center of the Divide country, which includes some of the best camps and properties in the district.

The Doane-Rambler mine, already referred to, is at Rambler, one mile away on the western slope of the divide on Battle Creek. This mine has principally been occupied with development and drainage work during the

past year but some shipments have been made. It is now in active operation, as are some of the less well known properties in the vicinity.

The country south of Battle has received new life this season by the opening up of a profitable grade of ore in the Verde mine, where a hoist and plant have just been installed to push the work this winter.

Work on the various properties located on upper and lower Cow Creek north of Battle has been vigorously pushed this season. Several plants have been installed where hand labor had been employed on a number of the older prospects in the Battle country and the results of this change are gratifying to all concerned.

The tramway runs through this section, two of the power plants being located on Cow Creek, and this fact has been the means of attracting especial attention to what is believed to be one of the best portions of the Battle Lake districts.

RUDEFEHA.

This camp is again becoming active after a quiet period previous to the recent sale of the Ferris-Haggarty mine. This is the western terminus of the tramway and the principal source of ore for the smelter. As these various works are all owned by the North American Copper Company and development work is being actively pushed in the mine, a prosperous future may be looked for in this vicinity, where at the present time within a radius of five miles, Jack Creek, Spring Creek, Savery Creek and other adjacent points work is steadily and quietly being pushed by several companies.

SOUTHERN CAMPS.

In the Purgatory Gulch, Beaver Creek, State line and Hog Park districts, south of Encampment, more development has been accomplished during the past season than at any previous period and the properties are beginning to show the results of the steady work. Numerous steam plants have been erected on these properties and preparations made to continue development during the winter

SARATOGA.

Discoveries of copper ore of a profitable grade have been made at Elk Mountain, east of Saratoga. These have been opened up on a prospect basis and the ore taken out in development has been sorted to a profitable grade and shipped to the Encampment smelter for treatment.

At Gold Hill, on the eastern edge of the county, prospecting for gold and copper has been carried on with some success but no permanent works opened up.

ALBANY COUNTY.

HOLMES.

The Great Rambler mine, located at this point, is the center of work in the Medicine Bow range on the east side of the Platte Valley. This property, after working on a limited basis for two years, during which time enough ore was shipped to more than pay expenses and improvements, including a considerable amount of dead development work, has been sold, reorganized and is being pushed on an extensive development basis. A small matte smelter has been successfully operated at the mine, using the lowest grade of ores in the mine (the highest grade being sorted and shipped as before) and the matte made, which is a very high grade, shipped to eastern refineries.

With such a property as a basis, prospecting and development has been general in the vicinity and some of the adjacent properties have made good showings. In the surrounding country on French Creek and Mullen Creek, on the west and the Keystone vicinity on the east, prospects have been opened up during the past year that are very encouraging to the owners.

CENTENNIAL.

At Centennial and vicinity, some of the old properties which in the past have produced gold in considerable quantities, are now being opened up again with the view of placing them in shape to be worked.

The Snowy Range, west of Centennial, has received more attention this past season than for many years and reports indicate a profitable outcome of this work.

JELM MOUNTAIN.

This district has not been personally visited but reliable reports received indicate that considerable work is under way there and may be expected to make a good showing in future reports.

LARAMIE PEAK VICINITY.

The northeastern portion of Albany county lying near the Albany-Laramie-Converse County lines has attracted the attention of investors during the past season with the result that two steam plants have been already erected on properties there, the Esterbrook and Pyramid properties, and several others are working on a smaller scale.

The Pyramid property on the head of LaBonte creek ~~is~~^{is} well equipped and the ~~the~~ showings warrant a further continuance of the work on hand.

The Esterbrook property, north of Laramie Peak, is considered one of the best prospects in the region and the recent developments in their work have fully justified the faith of the owners. Shipments have been made at various times of the surface ores and recently another shipment~~s~~ was made of the ores taken out during the present development work.

The success attending these properties has encouraged others recently to resume work on their prospects and in another year tangible results may be expected from these properties.

FREMONT COUNTY.

SOUTH PASS.

This district, though the oldest mining center of the State, with a record of gold production as yet unequalled by any other section, has, owing to its isolated situation from the present railroads, been retarded in its development and should be given every opportunity to become known.

The principal property in this section is the Carissa mine which has kept up a steady production for several years but no figures are given out by the management regarding their output or progress of their work.

At Atlantic City several of the properties have within the last two seasons taken a new life and are emerging from the prospect stage into the status of a mine.

From a personal inspection of this district and the occurrence of its ores, it is considered that it is a good field for investment and when the proper treatment of its ores has been taken up and thoroughly investigated, it will open up a promising future for the district.

The usual method in vogue has been by stamping or milling the ores and amalgamation of the gold values but while this may be adapted for a few of the ores found here, as at the Carissa and Miner's Delight, other methods will be required in a majority of cases.

The tests at the mill of the Overland company at Lewiston by the Cyanide process gave encouraging results and this treatment may be successfully adopted for other properties with similar ores.

BIG HORN COUNTY.

KIRWIN.

Work has been carried on in this camp for a number of years but until recently the nearest railroad point was 150 miles away and work was necessarily limited in character.

The building of the new railroad to Cody brought this transportation to within 90 miles of the Camp and at present several properties are being opened up and have encouraging prospects.

Gold is the principal value sought and lead, silver and copper have been found in quantities which would make paying mines under ordinary conditions of working.

The companies at present at work are not disposed to give out statistics for publication but appear to be able to carry out extensive plans of development.

SUNLIGHT BASIN.

This locality, situated north of Cody, has recently come into notice and from specimens submitted, evidently contains valuable minerals.

THERMOPOLIS VICINITY.

Numerous specimens and reports have been forwarded to this office from this locality mostly copper ores and occasional specimens of other minerals. Time didnot permit a visit to this district this year.

Coal has been extensively prospected in this vicinity and several veins of coal, similar to that noted at Meeteetse, and Sage Creek have been opened up for local supply.

LARAMIE COUNTY.

SUNRISE.

The development of iron ores from this point continue with unabated vigor and the improvements made by the company operating these mines indicate an almost unlimited supply of ore. This year work has been done mainly in the huge open cuts, loading the cars by steam shovels but diamond drill prospecting having shown the depth and extent of the deposits, other methods of operation are being considered and installed.

SILVER CROWN.

Litigation has retarded the development of some of the properties in this locality and in the hills further north but the settlement of a number of these difficulties and the quieting of some of the disputed titles have done much to bring some of the prospects here to the front.

COONEY HILL AND SLATE CREEK.

Work at these districts was especially active during 1901 and good showings were made. This work has almost entirely consisted of surface prospecting or the beginning of deep operations some of which are being continued at the present time.

Prospecting has been reported from Johnson, Sheridan, Crook, Natrona, Uinta and Sweetwater counties but no demands being received for the services of the office and the time for the work being short, it was not possible to visit these properties and investigate them personally. It is proposed to make a point of visiting these sections as soon as the other work and the resources of the office will permit.

THE OIL OUTLOOK.

No provision having been made for examination of oil lands and similar work, and in view of the litigation in several sections of the state, where oil is noted, this branch of the mineral industry has not been taken up by this office except in a general way and in connection with the mining work, as already stated.

Of the nineteen recognized oil fields in the state, at least a dozen are undergoing active investigation and it is only the isolated position of several of the fields that prevents their being exploited commercially and placed among the oil producers of the country.

NATRONA COUNTY.

The Salt Creek field in the northern part of the county is the principal producing oil field of the state.

Here the Pennsylvania Oil Company have thirteen actually producing wells, the last well drilled being a flowing well at this writing.

This company own and operate the only refinery in the state and when the present long and expensive haul from the wells to Casper is done away with by a pipe line and the pumping machinery now being installed is in operation, the oil manufacturing business in Wyoming will be on a firm basis that is more than justified by the superior quality of the products issued.

FREMONT COUNTY.

These fields have suffered most from their isolated position than almost any other portions of the state, as the quality of the oil and its quantity have been demonstrated frequently but in the face of present facilities for marketing they must await the future.

Drilling has been carried on during the past year but little publicity was given to the results and new operators have declined to make public their plans.

NEWCASTLE.

At Newcastle, Weston county, and west to Moorcroft in Crook county, oil indications have been noted for many years and this year three rigs have been placed at Newcastle and several in the Moorcroft field. These have not yet penetrated the oil formations, although small amounts of oil and gas are noted as the work progresses.

DOUGLAS.

In Converse county, near Douglas, six rigs have been in operation during the past year, with varying results. In one case an excess of water caused the abandonment of the location and in others, crooked holes required a change of location and delayed the work.

Other works have been more successful but the owners prefer to keep their findings from the public at the present time.

UINTA COUNTY.

Numerous drilling operations have been carried on in these fields but no personal investigation was made here. The situation and importance of this field merits an extensive study and every aid should be given its development.

BONENZA.

One well has been drilled in this field and others are projected but results of this work have not been made public. Oil springs are noted and the quality of oil is an accepted fact which should lead to extensive developemnts in this field.

STONE, SODA AND CLAYS.

STONE.

The stone quarries in the different portions of the State have been kept busy supplying the local demands and some of the better known stones as at Rawlins and other railroad points have made numerous shipments to other points.

SODA.

During the past year the Soda of Wyoming has been put upon the general market by a company composed of prominent capitalists, who have taken hold of the Green River Soda Works and have spent \$50,000.00 in general improvements and in enlarging the plant.

The soda is at present obtained from the original well at a depth of 700 feet but five new wells are contracted for and will be producing in the near future.

The owners are much encouraged as their products find a ready sale and since beginning work last spring, the capacity of the plant has been doubled and special machinery provided.

The other soda producing districts have been quiet but the success of the Green River plant will undoubtedly result in further operations in this line.

CLAYS.

The variety of clays noted at Rock Creek and vicinity in Albany County have been worked and shipped for some years and the past two years have shown a considerable demand for these products.

The "soap clays" both here and at Newcastle have attracted considerable attention and shipments have been made to parties in the East to be used in various manufacturing processes and as adulterants.

Brick manufacturing has been carried on at various points, mostly to supply local demands but this is steadily increasing and bids fair to become an important industry, as the materials exist in great quantities in many parts of the State.

PUBLICATION OF GEOLOGICAL REPORT.

Requests are constantly received for the annual reports of this office, to be filed in similar offices in other states, in the various bureaus of the general government and from investors and others wishing to become informed upon the mineral resources of the State and the progress made in developing them in recent years.

No reports of this nature have been issued since the report of the territorial Geologist in 1890 and the only means of answering these inquiries, at the present time, is to forward copies of such state publications as are available or of the University of Wyoming Bulletins which bear upon the subjects under inquiry.

These inquiries relate particularly to the, more recent development in the copper mining regions of the State, its extent and geology and the conditions under which the ores now noted are found to occur. Other inquiries received relate to the older industries of the State, its coal, iron and oil, and recently requests for information regarding the clays and other constructive materials have been received.

As a means of answering these inquiries properly and to make known to the mining world the advance Wyoming has made along these lines, I would earnestly recommend that the publication of a suitable report by this office be authorized and provided for.

This report should contain such portions of this report as may be considered desirable, a general description of the natural divisions of the State, general geology and most prominent geological features; a description of the different mining districts, the coal and oil fields, the distinctive geological and economical features of each, together with a brief mention of the, most prominent properties in the various localities and such assays or analyses and shipment statistics as may be available, would also be included.

The clays and other plastic or constructive materials, the soda products and mineral waters, would be taken up in the same manner of showing results of analysis and tests of strength or durability of material.

With this should be included a copy of the mining laws of Wyoming and such other laws and regulations as affect mining or the other mineral industries.

To show the progress made in the past few years and the character of the permanent works half-tone reproductions of photographs of these works should be included. Some of these have been already secured and show better than pages of description the amount of development accomplished. Many of these views are in possession of this office and other plates or photographs may readily be had for this purpose.

It is further suggested that this publication be issued at the close of the season of 1903, that time may be allowed for the completion of the data now on hand and that the publication so issued be made as complete as possible for use at the St. Louis Exposition in 1904 as an authoritative statement of Wyoming Mining.

The mining interests of the State are much interested in the State's exhibit in 1904 and will co-operate most cordially in completing this publication.

TO AID DEVELOPMENT OF MINES.

The greater part of the development of mining property in this State is being done by companies organized for this purpose under the laws of Wyoming, the majority of which are making every effort to push the development of their properties in a legitimate manner.

Numerous inquiries have been and are received at this office from persons either at present interested or about to become interested in these projects, regarding the actual holdings, officers, etc. of such companies operating in this state, which at present this office has no means of answering.

Blanks have been sent out from time to time as already stated to these mining companies and others, who, as a rule, have responded promptly in furnishing any desired information. Received in this manner, however, the information is necessarily vague and unofficial.

It is recommended that this office be authorized to establish an official bureau of mining statistics where any information relating to the mineral industry of the state may be collected and filed for reference and distribution.

FORM OF STATEMENT PROPOSED.

To this end it is proposed that each company be permitted to file with the State Geologist, upon blanks to be furnished by this office, a sworn statement properly attested by its officers, giving:

The name of the company and object of the same,
Postoffice address of office and mine,
Name and addresses of officers of company,
Location of property and title,
Description of property, acreage, etc.,
Number of shares of stock and par value,
Number of shares of stock in treasury,
Number of shares of stock sold,
Amount received from sale of above stock,
Amount expended for development work,
Amount expended for office work, supplies and machinery,
Total amount of work done on property,
Extent of workings, size of vein, etc.
Estimate of ore in sight,
Estimate of work proposed for coming year,
Statement of shipments made and value of same,
Number of men employed and length of time work was carried on,
General statement regarding the property, giving amount, kind and condition of machinery, etc.,
Other resources of the company.

These statements should be filed in duplicate once each year and a properly certified duplicate returned to each company making the filing, to be retained in their office or published as they may see fit.

FEES FOR FILING STATEMENTS.

For the receiving and filing of this yearly statement, the State Geologist should be authorized to charge the sum of one dollar and should be further authorized to furnish a properly certified copy of any statement so filed, to any person desiring the same, upon the payment of the sum of one dollar for each copy so furnished; these fees to be covered into the State Treasury as provided for the other fees of the office.

EXTENT OF SYSTEM.

The system thus inaugurated would naturally admit of expansion on lines of further usefulness to include the stone, clay, oil, coal and other industries of the State, whose statements would show certified analyses of their various products, and would furnish accurate data upon which to base reliable statistics for the future great mineral industry of Wyoming.

BENEFITS OF SYSTEM.

Many of the companies now operating under the laws of Wyoming, are steadily working for the legitimate development of their properties and it is believed this proposed method of registration will be a material benefit to all such companies, by enabling them to make an authoritative statement of their work and status.

It is believed, from consultation with practical and experienced mining men, that these companies would readily avail themselves of this opportunity to make such a statement and the information so gained, being given under oath, would be reliable, and also intending investors, especially those investing small amounts, would be enabled to secure for a small fee an authoritative statement of the existing condition of the property in question, not as a report on the property but as a safe-guard for both the investor and owners of the property against the numerous frauds known to exist in the mining business.

It is quite evident that none of the latter class of enterprises would care to avail themselves of the publicity necessarily connected with these matters of record.

As far as possible this office would seek to verify the statements made by the different companies filing statements, both from the data already collected, by further investigations as opportunities afford and any mis-statement discovered would be promptly made known both to the companies and the investors.

As the statements given out will be verbatim copies of the statements filed by the companies and simply certified to as being correct copies of the same, no liability will attach to the state from the filing of these statements, it being the intention of this system to merely register the working mines and mineral projects of the state in order that reliable information may be had and circulated regarding their progress and condition, and not to guarantee their value or to recommend them in any way.

Under the laws of the state, the filing of this statement, or any portion thereof, by any company would be purely optional and need not interfere in any way with the requirements of any of the incorporation laws and precedents.

It is considered that this system would be the means of advertising the mineral and other wealth of the state in a solid and substantial manner, that it would attract capital to the legitimate enterprises of the state and add materially to the revenues of this office as well as to increase its field of usefulness and efficiency, and would be the means of assisting many small owners in the development of their properties. Many of these small owners are without the funds to apply for a formal examination and by extending this system to include properties not yet incorporated but held by individuals, these owners would be enabled to first interest intending investors and later apply for a formal report upon their properties.

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FUTURE EFFICIENCY OF THE OFFICE.

During the past year and one half it had not been possible to give the clerical work of the office, the attention it requires as funds were not sufficient to employ clerical help and it is respectfully requested that this be provided for in the next appropriation for the contingent expenses of the office.

This will be especially necessary if the foregoing suggestions are approved and carried out, and will certainly increase the efficiency of the office by answering all communications at once and enable the head of the department to devote his time to the more important technical questions that are brought before him.

To this end a contingent fund of \$2000.00 is asked for the next two years, which, while not enough to permit geological field work, may be made to cover the actual office work and necessary expense of examination work for that time.

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The establishment of this office was an experiment two years ago and no effort has been spared to make it a successful one.

In this effort I have had the most cordial co-operation on the part of the State Officers, the newspapers of the State and the mining men in general and many others who have extended every courtesy in their power and my indebtedness to whom I desire to acknowledge.

I believe the work of this office has resulted in permanent good to the State, that it has been of assistance to those whom it was intended to benefit and that the mining interests of Wyoming desire its continuance with an enlarged field of operations to further demonstrate its efficiency.

All of which is respectfully submitted.

Henry C. Beeler

State Geologist of Wyoming.