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YEARLY ADVERTISEMENTS. GEORGE B. GOODLANDER, GEORGE HAGERTY, Publishers.

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WALLACE & KREBS, ATTORNEYS-AT-LAW Clearfield, Pa.

DRS. WILSON & VAN VALZAH, Ctearfield, Pa.

Office in residence of Dr. Wilson.
Oppics Houns: From 12 to 2r. n. Dr. Vanaizah can ba found at night in his rooms, next
oor to Hartswick & Iewin's Drug Store, up
nov2673

R. JEFFERSON LITZ. R. JEFFERSON
WOODLAND, PAWoodland in the line of he
nov.19-73

DANIEL W. M'CURD! McENALLY & McCURDY. ATTORNEYS-AT-LAW. ATTORNE 18-Clearfield, Pa.
Clearfield, Pa.
Logal business attended to promptly with
fity. Office on Second street, above the First
jan:1:74.

G. R. BARRETT,

ATTORNEY AND COUNSELOR AT LAW, CLEARFIELD, PA. CLEARFIELD, PA.

Having resigned his Judgeship, has resume
he practice of the law in his old office at Clear
eld, Pa. Will attend the courts of Jefferson an
ilk counties when specially retained in connection
tith exident counted. 2:14:72

WM. M. McCULLOUGH, ATTORNEY AT LAW, Clearfield, Pa.

\*\*Office in Coart House, (Sheriff's Office),
gal business promptly attended to. Real estate
ught and sold. jell'73

J. W. BANTZ, ATTORNEY-AT-LAW,
Clearfield, Pa.
26-Office in Pic's Opera House, Room No. 4.
ill legal business entrusted to his care promptly
2jy74

T. H. MURRAY, ATTORNEY AND COUNSELOR AT LAW. Prompt attention given to all legal bu entrusted to his care in Clearfield and adjo-counties. Office on Market st., opposite Na Jewelry Store, Clearfield, Pa.

A. W. WALTERS, ATTORNEY AT LAW, Clearfield, Pa.

H. W. SMITH, ATTORNEY-AT-LAW

WALTER BARRETT, ATTORNEY AT LAW.

ISRAEL TEST, ATTORNEY AT LAW,

Clearfield, Pa. of Office in Pie's Opera House. [jyl1,'67 JOHN H. FULFORD,

ATTORNEY AT LAW, Clearfield, Pa. 18 Office in Pic's Opera House, Room No. 5. JOHN L. CUTTLE, ATTORNEY AT LAW.

ATTORNEY AT LAW.

And Real Estate Agent, Clearfield, Pa.

Office on Third street, bet Cherry & Walnut.

PRespectfully offers his services in selling and buying lands in Clearfield and adjoining founties; and with an experience of overtwenty jears as a surveyor, flatters himself that he can render satisfaction.

[Feb. 28:63:tf,

FREDERICK O'LEARY BUCK, SCRIVENER & CONVEYANCER, General Life and Fire Ins. Agent. Dreils of Conveyance, Articles of Agreement and all legal papers promptly and neatly exe-cuted. Office in Pie's Opera House, Room No. 4. Clearfield, Pa., April 29, 1874.

J. BLAKE WALTERS REAL ESTATE BROKER,

AND DEALER IN Saw Logs and Lumber. CLEARFIELD, PA.

Office in Graham's Row. J. J. LINGLE, ATTORNEY - AT - LAW

18 Osceols, Clearfield Co., Pa. y:pd ROBERT WALLACE,

ATTORNEY - AT - LAW, allaceton, Clearfield County, Penn's All legal business promptly attended to. CYRUS GORDON ATTORNEY AT LAW,

Market street, (north side) Clearfield, Pa-28 All legal business promptly attended to Jan. 29, 73. DR. T. J. BOYER, PHYSICIAN AND SURGEON, Office on Market Street, Clearfield, Pa.

or Office hours: S to 12 a. m., and I to S p. s

DR. E. M. SCHEURER, HOMOGOPATHIC PHYSICIAN, Office in residence on Market st.

April 24, 1872. Clearfield, Pa. DR. W. A. MEANS, PHYSICIAN & SURGEON

LUTHERSBURG, PA. Will attend professional calls promptly, aug 107

J. S. BARNHART, ATTORNEY - AT - LAW,
Bellefonte, Pa.
Will practice in Clearfield and all of the Courts of
she 25th Judicial district. Real estate business
and collection of claims made specialties. n171

JAMES CLEARY, BARBER & HAIR DRESSER, SECOND STREET.

CLEARFIELD, PA. WILLIAM M. HENRY, JUSTICE



CLEARFIELD, PA., WEDNESDAY, JUNE 17, 1874.

GOODLANDER & HAGERTY, Publishers.

PRINCIPLES; NOT MEN.

VOL. 48-WHOLE NO. 2375.

A. G. KRAMER, TTORNEY-AT-LAW Real Estate and Collection Agent, CLEARFIELD, PA., uptly attend to all legal business a

of Office in Pic's Opera House, second floor april 1-6m\* John H. Orvis. C. T. Alexander. C. M. Bowers ORVIS, ALEXANDER & BOWERS, PRELIMINARY SURVEY ATTORNEYS AT LAW, Bellefonte, Pa. [jan28,'47-y

J. H. KLINE, M. D., PHYSICIAN & SURGEON, H AVING located at Pennseld, Pa., offers his professional services to the people of that place and surrounding country. Allealls promptly attended to. ec. 13 tf.

GEORGE C. KIRK,

aption of the Peace, Surveyor and Conveyances Luthersburg, Pa. nees intrusted to him will be p Attended to. Persons wishing to employ a Surveyor will do well to give him a call, as he flatters himself that he can render satisfaction. Deeds of correyance, articles of agreement, and all legal papers, promptly and neatly executed. \*120nov74

JOHN D. THOMPSON, Justice of the Peace and Serivener,

Curwensville, Pa. paid over. Collections made and money promptl EO. ALBERT ..... HENRY ALBERT ............................... ALBERT W. ALBERT & BROS.,

facturers & extensive Dealers in Sawed Lumber, Square Timber, &c. Orders solicited. Bills filled on short and reasonable terms. Address Woodland P. O., Clearfield Co., Pa.

FRANCIS COUTRIET. MERCHANT, Frenchville, Clearfield County, Pa

Keeps constantly on hand a full assortment of Dry Goods, Hardware, Groceries, and everything usually kept in a retail store, which will be sold, for cash, as cheap as elsewhere in the county. Frenchville, June 27, 1867-1y. THOMAS H. FORCEE, GENERAL MERCHANDISE,

GRAHAMTON, Pa. , extensive manufacturer and dealer in Sq Timber and Sawed Lumber of all kinds. Orders solicited and all bills promptly filled. [\*jy1672

CHARLES SCHAFER, LAGER BEER RREWER, Clearfield, Pa. HAVING rented Mr. Entres' Brewery he hopes by strict attention to business and the manufacture of a superior article of BEER cive the patronage of all the old and many

J. K. BOTTORF'S PHOTOGRAPH GALLERY. Market Street, Clearfield, Pa. CROMOS MADE A SPECIALTY. N EGATIVES made in cloudy as well as in clear weather. Constantly on hand a good assortment of FRAMES, STEREOSCOPES and

assortment of FRAMES, STEREOSCOPIC VIEWS. Frames, from any style of moulding, made to order. apr25-tf REUBEN HACKMAN. House and Sign Painter and Paper level or d Hanger, Clearfield, Penn'a.

will execute jobs in his line promptly and in a workmanlike manner. april 67 G. H. HALL. PRACTICAL PUMP MAKER

NEAR CLEARFIELD, PENN'A. Pumps always on hand and made to order on short notice. Pipes bored on reasonable terms. All work warranted to render satisfaction, and delivered if desired. my25:1ypd E. A. BIGLER & CO.,

DEALERS IN SQUARE TIMBER and manufacturers of ALL KINDS OF SAWED LUMBER

2'72 CLEARFIELD, PENN'A. JAS. B. GRAHAM,

Real Estate, Square Timber, Boards, SHINGLES, LATH, & PICKETS, Clearfield, Pa,

AMES MITCHELL. DEALER IN

Square Timber & Timber Lands, jell'73 CLEARFIELD, PA. ELI HARMAN,

PRACTICAL MILLWRIGHT, LUTHERSBURG, PA. Agent for the American Double Turbine Water heel and Andrews & Kalbach Wheel. Can fur-th Portable Crist Mills on short notice, jy12'71

DR. J. P. BURCHFIEL D. Late Surgeon of the Sid Regiment, Pennsylvania Volunteers, having returned from the Army, offers his professional services to the citizens Volunteers, having returned from the Army, offers his professional services to the citizens of Clearfield county.

Professional calls promptly attended to. Office on Second strest, formerlyoccupied by Dr. Woods.

[apri, '66-ti

H. F. NAUGLE, WATCH MAKER & JEWELER.

and dealer in Watches, Clocks, Jewelry, Silver and Plated Ware, &c., CLEARFIELD, PA.,

S. I. SNYDER, PRACTICAL WATCHMAKER AND DRALER IF Watches, Clocks and Jewelry, Graham's Raw, Market Street,

CLEARFIELD, PA. All kinds of repairing in my line promptly at ded to. April 23, 1873.

ended to. REIZENSTEIN & BERLINER,

**GENTS' FURNISHING GOODS** Have removed to 157 Church street, between Pranklin and White sts., New York. [jy3172

Miss E. A. P. Rynder,

Chickering's, Steinway's and Emerson's Pianos;
Smith's, Mason & Hamilin's and Peloubet's
Organs and Melodeens, and Grover &
Baker's Sewing Machines.
Also TRACHER OF
Piano, Guitar, Organ, Harmony and Vocal Music. No pupil taken for less than half a term.
Rooms opposit Gulich's Forniture Store.
Cleardaid, May 5, 1859-17.

HORSES FOR SALE.—A pair of well matched brown mares, young, good size, desirable farm or draught team, with new harbers complete. Also two Mitchell Wagons. Terms WEAVER A BETTS.

THE REPUBLICAN.



CLEARFIELD, PA

WEDNESDAY MORNING, JUNE 17, 1874.

REPORT

Keating station on the Philadelphia and Eric Rairoad, in Clinton county, and Karthaus on the West branch of the Susquehanna River, in Clearfield rocky and very expensive continued to the Susquehanna River, in Clearfield

The distance between the above points was carefully chained and found to be twenty one and one-half miles; the topographical features of each mile

MILE No. 10.—One thousand feet at were carefully observed and noted.

The line was commenced at a point on the Philadelphia and Eric Railroad a few hundred feet east of Keating thousand three hundred feet at lower station. The line from thence follows Susquehanna in a Southwesterly di- \$10,000. rection over ground generally favorable for the construction of a railroad. at lower end in narrows, work rocky The river runs very serpentine; the road will therefore require numerous \$21,000. road will therefore require numerous curves, but none of very short radii; about one-half of the line will be over throughout. Cost, \$4,000.

MILE No. 13.—Easy and cheap work throughout. Cost, \$4,000.

MILE No. 14.—On this mile at Foxcost, but at every loop of the stream feet span will be required; two thoustones and often solid rock. The grading on such parts of the line will be somewhat expensive, owing to the character of the material and the destruction of the common road that the struction of the common road the struction of the common road the struction of the common road the struction of the narrows occur, and generally on steep sand feet easy work, the balance in and one of sixty feet span over Upper Three Run; the rest of the streams

will be crossed by means of stringer bridges, box and open culverts.

Land damages will no doubt be very light, as the line seldom passes over arable land; fences will be required at a few points only, and as the railroad when completed will en-hance the value of land a hundred fold the owners no doubt will cheerfully donnte as much land as will be needed

for the use of the road. The grades will be very easy, averaging about five feet to the mile.—
Some points may require level grades;
in that case the grades at other points
would have to be slightly increased; but under any circumstances the grades will be very light, and will either be RECAPITULATION. favor of the heavy transportation

This will be emphatically a road for beavy freight, that will consist prin-cipally in coal, iron, lumber, bark, fire rick and iron ore; those articles abound all along the road.

From Karthaus the road might be extended along Mosquito Creek into the Green-Wood, (so called), the very heart of the greatest pine forest in Pennsylvania, from which point no doubt a large amount of lumber would find its way to market over this road. The Snowshoe coal mines are but ten miles South of Karthaus; these two points might also be connected by a railroad and much of the Snowshoe coal find an outlet by way of the West branch roads; but independent of the above extensions there will be ample business along this line to sustain the

The furnace of Karthaus went to ruin simply for want of an avenue to anywhere in this State: ore is found at numerous points on Mosquito Creek, and coal, and iron of superior quality, and great abundance, ter of the are found in the immediate vicinity of Karthaus, and no doubt as soon as I may

tion), the following veins of Coal, Iron ore, Fire Clay and Limestone:

Fire Clay. 1ron Ore. Limestone. \*Upper Vein.
The Coal, Iron ore and Fire Clay I

found in the above veins I consider of

years Furnaces, Sawmills, Forges, etc., will spring up; the resources along the line of the road be more fully developed, and the West branch of the Susquehanna teem with industry and

Civil Engineer.

MILE No. 2.—Two thousand feet very light work; the remainder in the narrows is moderately heavy work, and estimated to cost \$10,000.

Mile No. 8 .- Will require a bridge rocky and very expensive; estimated to cost \$30,000.

MILE No. 9 .- This mile will require upper end very rocky and heavy, bal-ance light work. Cost, \$11,000. Mile No. 11.—One box culvert, one

end in narrows along steep side-hill, heavy work, the balance light. Cost, MILE No. 12 .- Two thousand feet

have to be rebuilt. Only two truss-bridges will have to be built, one of mile, and grading heavy; lower balf mile easy work; a bridge of twenty fifty feet span over Birch Island Run, feet span across Lower Three Run, and one of sixty feet span at Upper Three Run. Cost, \$28,000. Mile No. 17.—Work light over the

entire mile. Cost, \$5,000. MILE No. 18 .- Light work throughout. Cost, \$5,000.
Mile No. 19 -- Will require a twelve

Mile No. 20.—Is easy and cheap work throughout. Cost, \$6,000. MILE No. 21 .- Two thousand feet on bottom, cheap work, balance on easy side-hill. Cost, \$7,000.

ADDITIONAL HALF MILE.-Work

Total for Grading,

LETTER FROM GEORGE ARMSTRONG, ESO. The following letter from George Armstrong, Esq., a practical miner and iron worker, shows that the min-eral wealth of Keating and Karthaus

ter of the 20th inst., requesting me to furnish you with such information as have obtained in my examina-

o the furnace at Karthaus.

In this letter I shall endeavor to show that the manufacturing of iron ing at Lock Haven, has spent much in this county can be made profitable rennsylvania in the Army, o the citizens attement to me he speaks as follows:

I have opened in close proximity to the contemplated railroad (and only lapri, \*66-ti lapri can expect to succeed in any enterprise if he knows nothing of the business in which he proposes to embark. The miners may send from the mines coal iron or iron stone of poor quality, in either of which cases the result would be an inferior quality of iron, or per-haps a disarrangement in the working of the furnace. These are points to be guarded against when once under

superior quality.

Extensive veins of coal and iron ore were found within the last few years upon the waters of Sinnemahoning world is the manufacture of iron carwere found within the last few years upon the waters of Sinnemahoning Creek, in consequence of which a company was organized and are now erecting a furnace at Wistar, two miles above Keating station.

That coal and iron ore, along the line of the contemplated railroad is inexhaustible there can be no doubt; and as soon as a railroad is constructant as soon as a railroad is constructant soon as a ra ed, these vast sources of wealth that have been lying dormant in the bowels of the earth will soon be developed; capitalists will direct their attention to these mines of wealth and in a few as follows:

The cost of raw material in Wales, is about as follows: Coal, three to five shillings, an average of four shillings and sixpence. This in currency would be as follows: In making one ton of iron there

MILE No. 1.—Will require three box culverts and a considerable amount of embankment at the Eastern end, and is estimated at \$8,000.

An article published in the Lock the preparation for active work.—

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An articl

Out, will cost about \$4,000.

MILE No. 4.—Will require one double box culvert, thus three thousand feet will be cheap work; the balance will be heavy. Cost. \$9,000.

MILE No. 5.—Will be very cheap work throughout. Cost, \$4,000.

MILE No. 6.—This is on steep work in ming of iron stone and shipping is the mining of iron stone and shipping is the mining of iron stone and shipping is the mining of iron stone and shipping it to the consumers elsewhere. This work. Cost, \$24,000.

MILE No. 7.—Will require the box of the mining of iron stone and shipping it to the consumers elsewhere. This work. Cost, \$24,000.

MILE No. 7.—Will require the matural advantages for the successful manufacture of iron in Clinton county, but the cost of labor is much higher here than in Wales, and the actual cost of one ton of iron would amount in the aggregate to from \$16 to \$16.

Another point worth considering is the mining of iron stone and shipping it to the consumers elsewhere. This work. Cost, \$24,000.

MILE No. 7.—Will require one double in Clinton county, but the cost of labor is much higher here than in Wales, and the actual cost of one ton of iron would amount in the aggregate to from \$16 to \$16.

Another point worth considering is the mining of iron stone and shipping it to the consumers elsewhere. This work. Cost, \$24,000.

MILE No. 7.—Will require one double in Clinton county, but the cost of labor is much higher here than in Wales, and the actual cost of one ton of iron would amount in the aggregate to from \$16 to \$16.

Another point worth considering is the mining of iron stone and shipping it to the consumers elsewhere. This work. The mining of iron stone and shipping it to the consumers elsewhere. The mining of iron stone and shipping it to the consumers elsewhere.

Sin: I have the honor to submit to you the following report concerning the contemplated railroad between Keating station on the Philadelphia and Eric Reilroad in Mile No. 7.—Will require three box diverts and one stringer bridge of twelve feet span; grading easy and the consummation of my ex.

MILE No. 7.—Will require three box is fully under way in this country—and it will be one progressive step toward the consummation of my ex. pectations. There is now a demand for our ores, and if owners can realize formed by the junction of the Sinneeven fifty cents per ton at the railroad, there is no better investment to be had. There can be, with a sufficient there is no better investment to be had. There can be, with a sufficient force, five hundred tons taken out of the mines daily, which would give an income of \$250 per day, or \$75,000 for one year (300 days.) What better investment can be wished for? This is a bundance on the tract, is of a sirable place to locate; it has two wall colorate of good ore, and the mineral lands lying in Kesting, coal with which to work it; it has an abundance of good ore, and the mineral lands lying in Kesting, and this is a very small portion of the timber, stone and suitable building site, any amount of land well adapted to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the production of supplies, plenty of agricultural purposes, is well supplied to the material lands lying in Kesting, and this is a very small portion of the mineral lands lying in Kesting, and this is a very small portion of the mineral lands lying in Kesting, and this is a very small portion of the timer, stone and with which to work it; it has an abundance of good ore, and the mineral lands lying in Kesting, and this is a very small portion of the timer, stone and this is a very small portion of the timer, stone and this is a very small portion of the timer. mining operations. Thousands of tons can be mined daily if a market can be found for it, and though the iron busi-ness has had a severe check during the recent panie, it will soon spring up again and be prosecuted with more vigor than ever, and there is no doubt that an immense quantity of our ore will within the next year or two find

a ready market. Regarding our coal supply, we have as good quality and as large a quan-tity of bituminous coal as Blossburg, Tioga, Arnot, Morris Run and Fall Brook, (Tioga county,) each of which places turns out from 1,000 to 1,500 tons per day. The coal business can be prosecuted as well and as profita-bly in Clinton as in Tioga county, and if men of enterprise and capital would open up and develop our mineral lands, their reward would be speedily forth-

All the coalores are classed as the car bonate of iron, or slate ores. Of these ores all the iron produced by England, Scotland and Wales is manufactured -all mined from the coal measures They yield from 30 to 35 and 55 per cent. of metalic iron, and have been feet span stringer bridge and a box tists in several elaborate analyses.—
enlvert, the grading will be very heavy
and a sharp curve required. From cros of this same quality taken from Scotch mines the finest grades of iron have been made. The richest specimens out of nine, which were an-alyzed came from the district of An-dric, the specific gravity of which was 3,0533, and they afforded in 100 parts:

says: "The profusion of excellent coal and its association in this and other ore and lime for fluxing are found in abundance in close proximity. No transportation will be required to get the raw material to the furnace, while there we material to the furnace, while the furnace will be made and size of coal in these lands is estimated at four hundred million tons, at the low-est calculation.

There have been three veins of ore there are good facilities for shipping the manufactured iron. The Danville iron masters are obliged to bring some of their ores from the Lake Superior mines, at a cost of from \$10 to \$12 per ton, but in Keating township there would be no such necessity, as all the different grades and qualities of ore required are found together in one vast field. This section of our county will some day be a thickly populated district, the inhabitants of which will be engaged in or dependent on the iron business. The sooner the mines are opened and the work begun, the are opened and the work begun, the per cent. when using 1 and 1 of your sooner will this result be brought ore, and about 40 to 42 when using

Having given a pretty thorough showing of the minerals contained on showing of the minerals contained on the Karthaus property, I will now take up several other tracts lying on the line of the Philadelphia and Erie railroad in this township. The Wis-tar Coal Company have a very valua-ble tract of land containing at the least calculation one hundred and twenty-five million tons of the best bituminous coal, suitable for the manufacture of iron, either in its raw state or coked. The iron stone on this tract will amount to about three hundred and seventy-five million tons. Limestone also is found in abundance, as on the Karthaus property. Adjoining are the lands of O. D. Satterlee & Bro., the three valuable veins of coal and iron stone extending through it, which yield in both the same proportion as other tracts described. The tract of C. C. McClelland lies in close proximity, underlaid with the same rich veins. All of these tracts afford excellent sites for the location of works of all kinds in necessary to carry on the manufacture of tron.

WISTAR IBON AND COAL COMPANY. The Wistar Iron and Coal Company is composed of the following gentle-men: Dr. E. Eldridge, President; L. Averill, Vice President; H. W. Rathburn, Treasurer; S. T. Reygolds, Sec-

Williamsport; John Pott, of Pottsville, and Isaac McHose, of Reading. The real estate of this company consists of 7,500 acres of mineral and timber superior quality for iron manufactur-ing purposes, losing only 20 per cent. in weight in the process, of coking.— Four veins, having an aggregate thickness of over fourteen feet, have been opened and found to be easily worked, by the usual system of horizontal gangways and tram-roads; there being a slight outward "dip," or inclination of the different veins, no difficulty can ever be experienced on account of wa-ter, as the mines must necessarily be

self-draining, so to speak. The ore, the mining and working of which is the paramount object of the company, exists in almost im-measurable quantities, there being five veins, aggregating twelve feet in thicknees, already opened. This ore has gratifying result, as will be seen by the following report of Jerome L. Boyer, Treasurer and General Manager of Temple Iron Co., Temple, Pa.

OFFICE OF ISAAC McHose, READING, PENN., Aug. 17, 1873. esses. Eldridge & Averill, Elmira, New York : GENTLEMEN: With this you have

Mr. Boyer's report of the results of the working of Wistar ore, which you will find, I trust, favorable, and

immensely wealthy in ores that will some day employ hundreds of work, men and millions of capital in its development and manufacture into iron.

One seam of iron ore in the Keating coal basin will yield from 30 to 45 percent, and lays on the top of a vein of coal. It can frequently be taken ore again. Burden in all respects the coal fields of Centre and down after the ceal has been mined from under it, in which case the coar frequently in ores that will substantially and in a country, is one of the finest in the state. This section possesses all the twelve hours and feeling safe to go on, attract advantages for the manufacture of iron and mining of coal, and all that is requisite to make this dormant tract blossom like the rose is capital and enterprise.

I would suggest that the projected products into the markets of the country, is one of the finest in the state. This section possesses all the twelve hours and feeling safe to go on, attract advantages for the manufacture of iron and mining of coal, and all that is requisite to make this dormant tract blossom like the rose is capital and enterprise.

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Clearfield countries and a large amount of shipping can be done over the twelve hours and feeling safe to go on, attract the coal fields of Centre and Clearfield countries and a large amount of shipping can be done over the tract because the coal fields of centre and country is one of the finest in the markets of the markets of the coal that is a country is one of the finest in the country is one of the finest in the coal has been mined to country.

on our regular burden, 2,000 coal, 2,-000 ore, 70 per cent. lime, i magnetic and i hematite ores. After 24 bours I put on † Wistar ore and † magnetic, lime 60 per cent, continued for 24 changes, when your ore was all. Result: from about † No. 2 X and No. 2 plain, balance No. 3, color two shades about 13 red-short to 11 neutral. The yield of the ore runs about 38

These figures show the cost in one An article published in the Lock the preparation for active work-

will apply to the whole coal basin of houses, a farm house and large barn, this region, I submit a copy of the and about one hundred acres of land article entire: under cultivation, at the mines, about one mile and a half from the station; two good wagon roads leading from tram-road laid with "T" rails, running from the mines along the side of the mountain to the head of the inclined plane, the latter 2,200 feet long and

retary; S. T. Arnot, Frank Hall, S. H. Wadsworth, George M. Diven, of Elmira; Jay Gould, of New York; G. L. Post and J. W. Maynard, of resources and extensive improvements. erty of this company, with its naturesources and extensive improvement is exceedingly valuable, and will even iron maufacturing district, its location being one of the most favorable in the mahoning creek with the Susquehanna river, in Keating township, Clinton county. The tract is rich in deposits comparatively a small calculation for in abundance on the tract, is of a sirable place to locate; it has two water fronts, the Sinnemahoning on one side and the Susquehanna on the other, with a good prospect of another rail-road along the latter. It is, or soon will be, easy of access from all quar-ters; is situated not many miles from the centre of the State, having direct communication with Philadelphia, Eric and (since the opening of the Bennett's Branch railroad) with Pittsburgh. If the manufacture of iron has been car. the manufacture of iron has been car-of iron ore per day will require a suf-ried on successfully in other parts of ficient number of men to make quite the country, it certainly may for instance, the iron works at Elmira are supplied with the raw material from various points of the compass,

whereas Wistar has comparatively nothing to demand from a distance. The Wistar Iron & Coal Company is made up of men several of whom are well known as successful financiers and others as practical iron manufacturers, having interests in old estab-lished works at other places; and it is not to be supposed for a moment that they would engage in an undertaking unless there was at least a good chance for success.

the great coal basin of the West Branch, fifty miles above Lock Haven In this great coal field we have no with good results. The ore works less than six veins of coal, all of well—can be worked by itself and make good iron. Works kind and satmake good iron. Works kind and satisfactory in every respect. You can safely invest on this trial.

Yours respectfully,

Isaac McHose.

Temple, Pa., Ava. 14, 1873.

To Dr. E. Eldridge and Levi Averill,

Elmira, New York:

Dean Sirs: We commenced with them of sufficient thickness to be workable, and of the best quality. The celebrated Karthaus vein of coal is located in this township, which stands high for the production of gas.

Perhaps the best plan to designate these veins will be to number them:

There is no coal or ore field in the State that has a better that her that has a better that has a better that her that has a better that

Elmira, New York:

thickness; No. 2, 4 feet 8 inches; No. State that has a better outlet to mar.

DEAR SIRS: We commenced using 3, the Karthaus vein, 6 feet thick. Set than this. The coal can be mined and 1.46 burden of your Wistar ore, i mag-1.41 on Friday, August 1st, 1873. Burden, we have a vein of iron ore 3 feet thick; 1.95 2,000 coal, 2,500 ore, and 70 per cent. and below this a bed of limestone well Its contents in metalic iron are 41.25.
In comparing the cres of Keating with the Scottish ores, from the best of which the above analysis was made, we find that we can produce at least as good, and doubtless better, an article of iron in its crude state as can be found in Europe, and in incalculable quantities. Hence it will clearly be perceived that Keating township is immensely wealthy in ores that will some day employ hundreds of work.

2,000 coal, 2,500 ore, and 70 per cent. lime; continued doing so for fifty adapted to the "fluxing" of iron ore that is now likely to be built will effect and adapted to the "fluxing" of iron ore in the furnace; then we come to coal from, No. 2 X and plain No. 2. Very rich, dark gray color, very strong, fracture jagged and toro. A medium open grain, rather round granular.

Left Wistar ore off forty hours to try again, and to better know whether gases remain fixed in temperature and condition of crucible when ore was some day employ hundreds of work.

townships is inexhaustible, and that the manufacture of iron and mining of coal may be as extensively and profitably carried on in those townships as anywhere in this State:

Lock Haven, Pa., May 25, 1878.

Lock Haven, Pa. says: "The profusion of excellent coal dimestone to 60 per cent. owing to searched for coal on this tract and and its association in this and other your ore having considerable more found the several veins as here given. lime than our bematite. Continued When we take the pick and shovel to this railroad becomes a fixed fact, the furnace at that point will again be put in blast. At Buttermik Falls, four miles below Karthaus, bog ore is found in great abundance; much of this ore was taken in cances and scow boats to the furnace at Karthaus.

I may have obtained in my examination of the mineral resources of Keattion of the mineral

opened on this tract. In the series, which is No. 3 down, we have three feet thick of argillaceous ore. This same vein was formerly worked at the supposed to measure three feet when properly under cover. In connection with these we have the celebrated white ore. This is said to be opened on Bennett's Branch on the Sinnemahoning, the vein being seven feet thick and the ore very rich in quality. The upper portion of the vein is in the nodular form, or balls disseminated in clate; the lower portion is in thick, compact balls, separated by a thin seam of slate. Below this vein is an other of ore about thirty feet lower in occupance for transportation, &c., lighter than when using i burden of your ore. Very strong, pulled fracture, more of a flat fibrous, granular formation, and the nature of the iron honing, the vein being seven feet The yield of the when using and i of your per cent, when using i and i of your ore, and about 40 to 42 when using only i, owing probably to the hematone is an analytic; flux working more direct on the ore than when a larger portion of your ore is on.

The ore carries no carbonic acid, it is another to sufficient to show any trace while same and is an excellent one, the upper portion as sufficient to show any trace while is an excellent one, the upper portion as pecular ore, as our furnace is one of the most sensing into the carrier of surpluric ore will throw her charge of sulphuric ore will thro

the ore. I am very respectfully,

JEROME L. BOYER,

Treasurer and General Manager Temple Iron Co.

The gentlemen interested in the development of the minerals of the Wistar lands are determined to push operations to a successful termination, and have already done a great deal in

thick respectively, which is well all ptof for use in the survace.

This small portion of Keating township will yield about nine hundred
million tons of orn, taking for our basis
the ten thousand acree, with these
veins of iron ore, connected with coal.

There is also in the same field the
kidney iron ore of the very best quality, the vein being in thickness from
two to four feet; and over this is another superior ore for the manufacture other superior ore for the manufacture of iron. The quality of the ore is such as to insure a ready sale for all that can be got to market, and I do not be interested. not hesitate to say that the time is now approaching when Keating town-ship will be well supplied with blast farnaces and rolling mills, and the din of the forge hammer will be heard for many miles around."

In order to more clearly illustrate the different veins, I present the following recapitulation:

Vein No. 1, 2 feet 1 inch. Hematite.

" " 2, 5 " 0 " Argillaceous

" " 3, 5 " 6 " Red Oxide.

" " 4, 7 " 0 " Whits.

" " 5, 1 " 6 " Plag.

" " 5, 2 " 0 " Specular.

These veins have all been opened coal will give to the acre 5,000 tons iron ore will yield three times that amount, or 15,000 tons. It is necessary to make this matter plain amount to some might seem fabulous. Now, we find that instead of having only three feet of ore to the sere, we have some six times that amount upon

Now suppose we take out five hundren tons in one day; we will have one hundred and fifty thousand tons in a year, or 360 days; to go on at this rate of mining it will take six thousand years to get out the amount specified as being on this portion of

To dig 500 tons of this ore per day will take 400 miners, which will quire each miner to cut 11 tons per lay and put it outside into the so or cars, as the case may be. 50 laborers to handle the ore and get

be here;
a respectable village.
t Elmira
material
material
small village. Now, with her furnaces rolling mills, forges, puddling furnaces, &c., she has increased from a popula-tion of seven or eight hundred to nearly fifteen thousand. The mining and manufacture of iron alone ha made that place what it is to-day, and it has no other important industry to support it. Danville has now to transort the greater quantity of her ores hundreds of miles. She is obliged to go east, west, north and south to get ores to keep her manufactories in op-eration. Now, the question comes home-why cannot Keating township become the Danville of Clinton county

if not better advantage. The railroad that is now likely to be built will ef

All this extra steam power makes honing and follow the main stream to Karthaus proper; then we have a light grade all the way through to Philipsburg, and as much further as desirable to run the road. There is no doubt that the new road, when built, will be one of the best paying roads in the State. It will pass thr

[Concluded on fourth page.]