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ADDRESSES

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R. B. Lamb,	1634 State Street,	Denver, Colorado.
Francis & Co.	Carbon merchants	Hartford, Conn.
Jacques Bassenger & Co.	" "	New York City.
Wm. Phillips	507 Brown-Marx Bldg.	Birmingham, Ala.
Probert, Frank H.,	819-20 Central Bldg.,	Los Angeles, Cal.
Louis Stockett,	Gen. Mgr., Bankhead Mines, Ltd.,	Bankhead, Alberta
F. C. Greene	Republic Building	Cleveland, Ohio.
The Hodgins-Greene Co.	401 State Savings Bank Consulting Engineers Building,	Butte, Montana.
Irving, Robert	1173 Davie St.,	Vancouver, B.C.
Green, O. V.	1405 Sheffield Building	Cleveland, Ohio.

## APPLICATIONS

APPLICANT	ADDRESS	POSITION	FILE NO.
J. M. Richards	Concord Block, Butte,	Mining Engineer	2004
Frank Probert	Central Bldg., Los Angeles, California,	Geologist and Mining Engineer	2004
Geo. T. Wickes	Covington, Va.	Coal Mine Mgr.	2004
W. R. Wilson,	South View, Av. Road Hill, Toronto, Can.	Mining and Consulting Engr.	2004
J. H. Warner	c/o C. K. Leith, Univ. of Wisc., Madison, Wis.	Geologist	2004
William H. Truesdell,	Berthold, N.D.	Geologist	2004
Raymond Richards,	588 Rondo St., City.	Geologist	2004
F. X. Mooney,	Santa Maria del Ora, Estado de Durango, Mex.	Cop. Metallurgist	2004
A. F. Kuehn,	4119 Emerson Ave. N., Minneapolis, Minn.	Min. Engineer	2004
Geo. Fisher	c/o A. B. Fisher	Clerk	
W. H. Staver	Zaruma, Guayaquil, Equator	Engineer	2004
S. M. Moore	Frank, Alberta	Coal Mine Supt.	2004
Carl Falk	698 John St., City	Office Boy	
Geo. S. McKay	2436 Garfield Ave. Minneapolis, Minn.	Civil Engr.	2004
Dibrell P. Haynes	P.O. Box 56, Rolla. Missouri.	Geologist's Ass't	2004
Various	Various	Chemist, Shops	2095
F. S. Seifert	Care Carolina Barytes Company, Stackhouse, North Carolina	Mining Engineer	2004
Jos. McCarthy	P.O. Box 409, Eveleth, Minn.	Chemist	2004



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Bawden, A. W. - Offer of Cuyuna Range lands, - - - - -	2013
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Belt Creek or Armington Coal Field, Montana, - - - - -	2099
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*referred by J.M.*

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Manganese in Lower California, across Gulf from Guaymas,  
Sonora, Mexico - I. W. Lane - - - - - 2307

CHICAGO, MILWAUKEE AND ST. PAUL RAILWAY

Letter from D. R. Hurd, re engineers at work near Blairmore,  
Alberta - - - - - 2192



"C"

COAL	SHEET "1"	FILE NO.
U. S. Geological Survey - coal -	<i>General File</i>	2000
Coal famine		2000
Coal investigations		2000
Princeton and Nicola Coal Fields, Yale Dist., B. C. -----		2005
Coal near Havre, Montana, - - - - -		2015
Gerber Coal Mine, Cascade County, Montana - - - - -		2017
Occidental Coal Mine, Chehalis County, Wash. - - - - -		2018
Belt Mine - Anaconda Copper Co., at Belt, Montana - - - -		2019
Coal Field between Bellingham & Nooksack River - - - - -		2021
Coal Property near Taber, Alberta, offered by B. M. Eden -		2023
Cold Water District- near Nicola, B. C.- A. E. Franklin -		2024
Coal Prospect near Milk Station, Alberta (Mr. Osborne) - -		2025
Coal lands near Fernie, B. C. - offered by G. B. Peavey		2032
Coal Property in Stikine County, or District, B. C. offered by B. M. Eden - - - - -		2039
Diamond-Vale Coal & Iron Mines, Ltd. - Nicola Coal Fields (Quil-chene Basin) Vale District, B. C.		2042
Crown Coal & Coke Company - - - - -		2045
Coal near Columbus, Montana - - - - -		2046
Lands offered by A. Williams & Co.- Similkameen Dist. B.C.		2049
Berquetting coal - miscellaneous processes - - - - -		2051
British Columbia Amalgamated Coal Company property, in Nicola Valley, B. C. - - - - -		2054
Dr. Sudduth's claims, Sec.31, T. 5, R.23 East, Montana - -		2062
Coal field six to fourteen miles east of Musselshell, Mont. T. 9 N., R. 30 E., - - - - -		2064

"C"

COAL	(Sheet 2 )	FILE NO.
Coal near Granite Creek, 12 or 15 miles above Princeton, B. C. - -		2056
Coal near Straw, Fergus County, Montana - - - - -		2057
Company's lands near Pincher Creek, Alberta - "Alberta Coal Lands"		2058
Near Edmonton, Alberta, Canada, Offer of Wm. Gilmore, - - - - -		2067
Crows Nest Pass Coal Company, - - - - -		2070
Indications southeast of Cokedale, Washington, - - - - -		2069
Property owned by Tulameen Coal and Coke Co., - 3520 acres loca- ted one mile south of Tulameen River opposite town of Tulameen, British Columbia. Offered by W. H. Yarco - - - -		2072
W. G. Conrad Coal Lands, near Belt, Montana (500 acres) - - - - -		2076
Coal claims of Charles H. Wolf on Upper Flat Head River, across spur of Rocky Mountains, from Ferney and Morrissey, B.C. - - -		2082
Coal lands in settlement of Notre Damede Sarvie, east of Lacombe, Alberta, offered by A. E. Voyer - - - - -		2085
Coal lands across river from Gault deposits, near Lethbridge, Alberta (9000 acres), offered by J. Herbert Anderson - - - -		2084
Coal mines in United States - United States Geological Surveys, list of commercial - - - - -		2086
Proposed examination for coal along main line on east side of Cascade Mountains, in Washington, 1907 - - - - -		2090
Nicola Coal Mines, Limited, of Spokane. Lands in Nicola coalfield offered by Latimer & Wallace Co. and H. R. Sanderson - -		2005-A
Lands owned by the Northern Pacific Railway Company in Lewis and Clark and Cascade Counties, Montana, - - - - -		2093
Skagit Coal and Coke Company, - - - - -		2096
Briquettes made by the Bankhead Mines, Ltd., Bankhead, Alta., Louis Stockett, General Manager, - - - - -		2097
Pincher Creek Coal lands owned by the Company, Alberta, Canada, -		2058

"C"

COAL SHEET 3

Sand Coulee Coal Company, - - - - -	2098
Armington or Belt Creek Coal Lands, - - - - -	2099
McDowall Coal Property, Skagit County, Washington, - - - - -	2100
Prospect in Whatcomb County, Washington (E-1/2 Sec. 29, T.39-R.3, West) Near Glacier. Offered by Y. S. Yarrow, and Washington Anthracite Coal Company. A. N. Winchell made an examination and report, - - - - -	2101
Table showing relative efficiency under steam boiler of United States GeoL/ Sur. testing plant, - - - - -	2102
Recent improvements in the utilization of, by Marius R. Campbell, - - - - -	2103
Gebo Coal Field, Kirby Coal Field, Coal Field north of Thermopolis, Coal near Burlington line from Bridger to Kirby, - All in Fremont County, Wyoming. Fred T. Greene made a report on, - - - - -	2109
Lands offered by Hester and Astley, Calgary, Alberta. 10,000 acres 30 miles west of Calgary and 14 miles south of Canmore on the C.P.R., - - - - -	2116
Discovery of vien near Larson's Mill, Near Lake Whatcomb, Bellingham, Washington, - - - - -	2117
Utah, General - - - - -	2120
Oregon, General, - - - - -	2121
Georgia, General, - - - - -	2122
Valuation of Government Coal Lands, - - - - -	2123
California, General, - - - - -	2124
Montana, General, - - - - -	2125
Colorado, General, - - - - -	2128
Grand Mesa Coal Field, Colorado, - - - - -	2128-1
Rogue River Valley Coal Field, Oregon, - - - - -	2121-1
Production of the Rocky Mountain and Pacific Coast States, 1908-	2129

Local  
4.

## "C"

C O A L	Sheet 4	FILE
In Wyoming, General, - - - - -		-2130
Property on Vancouver Island offered by W. J. Ledingham, - - - -		2133
Property near Crows Nest Sta. (C.N.P.Ry.) B.C. offered by W.E.Hamilton, - - - - -		2137
In North Dakota, General, - - - - -		2140
In Michigan, General, - - - - -		2141
In Idaho, General, - - - - -		2143
In Washington, General - - - - -		2160
In New Mexico, General - - - - -		2162
On Vancouver Island, General, - - - - -		2133
Field north of Nanaimo, - Letters of M.K.Rogers re., - - - - -		2133-A
In Arkansas, General, - - - - -		2166
In Alaska, - - - - -		2168
Effect of oxygen in - - - - -		2169
Truma Coal Co., Great Falls, Mont., Benj. Davies, - - - - -		2170
Property of the Vermillion Mining & Development Co., near Princeton, B. C. - - - - -		2171
Coal mining regulations in the Province of Alberta, Canada - - -		2173
Coal property in the Yakoun coal fields, Graham Island, Queen Charlotte Group, off Northwest coast of B. C. - offered by D. A. Richardson - - - - -		2174
Coal land near Blairmore, Alberta, offered by Thomas F. O'Hagen; Report on by J. R. Roaf, Chief Engineer Crows Nest Pass Coal Company - - - - -		2172
In West Virginia, general - - - - -		2175
In Missouri, general - - - - -		2176
In Texas - general - - - - -		-2178
In Pennsylvania - general - - - - -		2179
In Tennessee - general - - - - -		-2180
In Indiana - general - - - - -		-2181



C O A L	SHEET 5	FILE
In Kentucky - general - - - - -		-2182
In Iowa - general - - - - -		-2183
In Virginia - general - - - - -		2184
In Illinois - general - - - - -		2185
lands of the Heppner Railroad & Coal Co., Morrow County, Oregon - -		2188
Washington Anthracite Coal Co. - - - - -		2101
Grand Mond Coal Co. - - - - -		2101
Pat Gibbons' property, Washington, offered by D.A. Robinson, Seattle		2190
Property in Black Diamond District, King County, Washington, offered by R.P. Mooney, Seattle - - - - -		2191
Property near Blairmore, Alberta, offered by G.A. Jackson - - - - -		2192
Coal in Saskatchewan, Canada, just north of Hinsdale, Montana. Report by L. Newman - - - - -		2193
Kerr, Wm.: Offer of coal property near Princeton, B.C. - - - - -		2195
Wilson, Mrs. Mary: Offer of coal property near Livingston, Alberta		2196
Coal property on Vancouver Island, described as Dunsmuir holdings, submitted by G. B. French (Z.M. Hamilton) - - - - -		2197
J.L. McAnelly: Offer of coal lands near Painted Robe, Montana - -		2198
Reed, D.A. : Offer of coal lands near Lundbuck, Alberta - - - - -		2199
Lands offered by Bert H. Hind, in Montana - - - - -		2201
Lands offered in Central Arkansas, by E. C. Johnson - - - - -		2202
Lands offered in British Columbia, by D. Evans - - - - -		2203
Lands offered in Washington, by Margaret McCampbell - - - - -		2204
Lands offered in Colorado, by O. H. Lee - - - - -		2205
Lands offered by A. Driscoll - - - - -		2206
Lands offered in Vancouver Is., by I. L. Leeson - - - - -		2207
Mackton Coal Company property, Section 18, Township 28, Range 14, East, near Big Sandy, Choteau County, Montana - - - - -		2209
Schultz coal mine, Fergus County, Montana - - - - -		2210
Lands offered by Mrs. Mary A. Weistaner, near Lewistown, Montana		2214
Lands offered by W.N. Dunlop, in old Crows Nest Pass District - - -		2214

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COAL	SHEET 6	FILE NO.
International Development Co., stock offer, and map of workings		2219
Coal: Ohio, general - - - - -		2224
Coal: Massachusetts, general - - - - -		2225
Lands near Lewistown, Montana, offered by John J. Bullard - - -		2228
Lands near Monroe, Snohomish County, Washington, offered by Arthur Driver, - - - - -		2229
Lands near Tullemeen, British Columbia, offered by W.E.Duncan of Merritt, B.C., through James Pearson - - - - -		2230
Williams and Murdoff; Superior Coal and Improvement Company; Offer of coal land located between Renton and Issaquah, near Seattle, Washington, - - - - -		2232
Milk River Coal Field, near Havre, Montana - Staton Mine - - -		2234
Property in Sec. 20, T.25, R.5, King County, Washington, near town of Newcastle, offered by E. C. Cheasty, Seattle, - - -		2234½
Property along Campbell River, Vancouver Island, offered by A.H.B. Macgowan, Vancouver, B.C. - - - - -		2235
Application for railroad to coal lands (Northern Coal and Coke Co.) and (Elk Valley Coal and Coke Co.) north of Michel, Elk River Valley, British Columbia - - - - -		2237
Near Armington, Montana; Offered by John C. Powell - - - - -		2238
Land in Nicola Valley, British Columbia; Offered by G. H. Derry-		2240
16,000 acres of coal land in T.20, R.6, forty miles southwest of Calgary, Alberta, offered by P. Burns of Calgary, through J.W.Stewart, of Foley Bros. and Stewart, Contractors, -		2241
U.S.Senate Bill No. 9955; To provide for the leasing of coal and coal lands in the Territory of Alaska - - - - -		2244
Analyses, General - - - - - (See also Book Record)		2245
In Goat Mountain, Sun River Valley, Montana, - - - - -		2246
Property owned by Willis Realty Co. near Cascade, Mont. offered by J. W. Ward, Missoula, Montana- - - - -		2248
Property in Nicola Valley, B.C. offered by W. E. Duncan, - - - -		2247



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COAL

SHEET 7

FILE NO.

Lachapell Ranch between Craig and Augusta, Montana, offered by W. J. Anson, Helena, Montana - - - - -	2253
2,000 acres coal land (known as Lauderdale Coal Property, 1½ miles south of Cowley, Alberta, offered by Alexander Faulds, Vancouver, B.C. - - - - -	2254
Lands in Grand Hogback Quadrangle, near Newcastle, Colorado, offered by P.C. Coryell - - - - -	2255
Property on Pender Island, (off east coast of Vancouver Island) offered by Spencer Percival - - - - -	2256
Prospect in T. 9, R. 5, Alberta, offered by Wm. Geddes - - - - -	2260
Crows Nest Pass District; Mrs. W. H. Coleman - - - - -	2262
Prospect near Craig, Mont., owned and offered by Cattern Bros. through Mr. James Pearson of the Cottonwood Coal Co. - - - - -	2253
Kansas, General, - - - - -	2273
In Maryland, General - - - - -	2274
The Graham Island (B.C.), Coal and Timber Syndicate, Ltd. - - - - -	2275
Report by F. C. Greene on coal prospects at Princeton and Nicola and country between - - - - -	2271
Pincher Creek Coal Mining Company - - - - -	2276
Lands in Illinois offered by H. T. Smith - - - - -	2279
" " Ohio " " John Stewart - - - - -	2280
Ford Coal Claims, Tps. 17 & 18, R.6, West, 50 miles south- west of Calgary, Alberta, Canada - - - - -	2281
Report on coal prospects in Teton County by A.M. Winchell (1906) - - - - -	2284
Coalmont, B.C. - - - - -	2056
Near Lethbridge, Alberta, offered by S. McWhorter of Vancouver, B.C. - - - - -	2290
Coal lands of the Columbia Falls Townsite Co. along the north fork of the Flathead River, Montana - - - - -	2268
Coal property owned by C.O. Jenks and Ed. Gerber in T.18, R.4, Cascade County, Montana, with map showing drilling - - - - -	2293

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COAL	SHEET 8	FILE NO.
Coal prospect ten miles east of Lewistown, Montana, offered by H. C. Hopkins, Butte, - - - - -		2294
Coal in Arizona, General file - - - - -		2296
South Dakota - Mineral Production - Coal - General - - - - -		2302
Trip of O.V. Greene (Aug.-Sept. 1912) over territory contiguous to V.V. & E. Ry. British Columbia, and report on possible coal fields in that territory - - - - -		2306
Nicola Valley Coal property, offered by A. R. Carrington - - -		2308
Fachiri-Antonio-Coal Property in North Fork of Flathead Country, Montana - - - - -		2318
Smilikameen Valley Coal Company, Ltd., - - - - -		2323
Dally and Peterson, Coal prospect west of north Fork of Flathead River, British Columbia - - - - -		2325
Coal Securities, Limited; M. H. Alworth, Duluth; Coal property in the vicinity of Frank, Alberta - - - - -		2330
Coal Property in Kananaskis Valley, Alberta, offered by G. A. Dippie - - - - -		2333
Coal lands near Ellensburg and Cle Elum, Washington, offered by James Nolan - - - - -		2334
Hound Creek, Mont., Coal prospects, - - - - -		2339
Holdings of George Stanton, Belt Creek, near Belt, Montana --		2340
Sheep Creek Coal & Iron Syndicate (Cameron & Anderson, Alberta, Canada) - - - - -		2341
Coal, Whatcomb County, Wash., offered by Wm. Bolcom - - - - -		2348
Canadian Coal & Coke Co., Ltd. Beaver Colliery - Jno. B. Ferguson-----		2362
Coal property at Head Waters of Flathead River, offered by Frank C. Greene--		2373
Coal lands near Armington, Mont., offered by E. E. Hierman-----		2378
Thompson, H. C. - Montana coal-----		2358
Wilson, R. W., - coal lands near Belt, Montana-----		2381

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COLORADO	FILE
Coal, General, <i>booked - Metals</i> - - - - -	2128
Grand Mesa Coal Field, - - - - -	2128-1
Iron Ore Deposits, General - - - - -	2161
Lands offered by O. H. Lee - - - - -	2205
Coal lands in Grand Hogback Quadrangle, near Newcastle, offered by P.C. Coryell - - - - -	2255
Iron ore properties in San Juan, Colo. - Report on Fountain-Pride Mining and Milling Company submitted by Wm. Ely Bramhall-----	2361

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COMMERCIAL CHEMISTS

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Lerch Brothers,

Hibbing, Minnesota.  
Virginia, "  
Superior, Wisconsin.

Smith, Emery & Company, 651 Howard Street,

San Francisco, Cal.

Brotherton Metallurgical Co. 532 Commercial St.

" " "

"C"

## C O P P E R

General Statistics, - - - - -	-2092
Properties of Emil Voight, Copper Mountain District, Similikameen Division, Near Princeton, British Columbia, and Palmer Mountain Tunnel Co., Copper world and Copper World Extension Companies, Okanagon County, Washington - -	2104
Granby Consolidated M.S. & P. Co., Pheonix, B.C. - - - - -	2136
Claims of O.F. Schoenfeld in Little Belt Mtns., Cascade Co., Mont. (Blue Nick, Azurite & Paupers' Dream) - - - - -	2139
Columbia Copper Co., Similikameen District, B.C. - - - - -	2156
In Alaska - - - - -	2165
Unuk River Copper Company - - - - -	2222
Dutch Miller and Bahoster claims of the Seattle-Boston Copper Company, Burns Mining district, King County, Washington - -	2292
Calamont Copper Co. - Norris, Montana - - - - -	2304
Copper property near Conconully, Wash., - - - - -	2338
Copper claims - Montana - H. C. Thompson.....	2358
Copper property near Index, Washington, - Sunset mine.....	2377



"C"

## COTTONWOOD COAL COMPANY

For correspondence in connection with the Sage Creek Coal Field,  
Fergus County, Montana, see front compartment, top drawer, Globe Filing  
Case. General file - - - - - 2074

Except Accounting Matters, - For these papers, - - - - - 2105  
Options from John J. Doherty and wife, and Chas. Lochrey and wife,  
covering 2560 acres of land southeast of the present Stockett  
mine workings, in Cascade County, Montana - - - - - 2075

No. FIVE MINE, Stockett, - General, - - - - - 2075

Schultz Coal mine, Fergus County, Montana - - - - - 2210

Lands in T. 15, R. 12, Fergus County, Montana, to be withheld from  
sale, account probability of surface being required for mining  
purposes - - - - - 2211

List of lands in Fergus County, Montana, to be sold without  
mineral reservation - - - - - 2213

and in Fergus County, Montana offered by B.E. Stack, - - - - - 2227

Estimates of duration of No. 5 and 6 mines, Stockett - See map case,  
second drawer from top "Geol. Dept.-Misc. Maps" - - - - - Maps

Sundry maps, exploration prints, etc. are filed in Geol. Dept. map case.

Work being done by Lochray and Brown, through their workings, to  
estimate quantity of coal there may be in Sand Coulee Coal  
Company lands adjoining their workings, - - - - - 2242

Coal lands in Montana offered to Company - - - - - 2278

COTTONWOOD COAL COMPANY

COPIES OF CONTRACTS

<u>NO.</u>	<u>DESCRIPTION</u>	<u>DATE</u>
1	List of options on coal lands, Fergus County, Montana	1906
2	Report on Sage Creek Sheep Company Ranch, by Watson Boyle	"
3	Drilling contract between Longyear and Hodge, and Great Northern Railway Company, covering exploring for coal in T. 15, R. 12	July, 1906
4	Option - N. Messner and wife to John G. Williams	Sept. 8, '08
5	Bond - Thomas and Mary Thorp to George J. Bach and C. E. Copeland to John G. Williams - \$600.00	Apr. 13, '07
5-A	Assignment of interest in bond above described - John G. Williams to Cottonwood Coal Company	May 7, '08
5-B	Quit-claim deed - John G. Williams and wife to Cottonwood Coal Company, covering Thorp Ranch	May 8, '07
6 and		
6-A	Deeds - B. E. Stack and Mary A. Stack, his wife, to John G. Williams, covering portion of Stack Ranch	May 1, '07
6-B	Lease - John G. Williams to Bernard E. Stack, covering certain portions of Stack Ranch	May 1, '07
6-C	Deed - John G. Williams and wife to Cottonwood Coal Co., covering Stack Ranch	May 22, '07
6-D	Exchange of letters between B. E. Stack and H. V. Winchell, re final receipts in connection with Ira Kines and Ole Beaver homestead interest	Nov., 1907
7	Deed - John G. Williams and wife to Cottonwood Coal Company, covering Section 16, 15-12, Fergus County, Montana	Sept. 27, '07
8	Deed - Watson Boyle to Cottonwood Coal Company, covering NE $\frac{1}{4}$ of SW $\frac{1}{4}$ , Section 15, 15-12, Fergus County, Montana	Oct. 1, '07
9	Quit-claim deed - John G. Williams and wife to Cottonwood Coal Company, covering Sage Creek Sheep Company Ranch, Fergus County, Montana	Nov. 30, '07

- 9-A Deed - Sage Creek Sheep Company, Leslie H. Hamilton and wife, and Jacob Mills and wife to Cottonwood Coal Company, covering Sage Creek Sheep Ranch Mar.9, '08
- 9-B Agreement between the Sage Creek Sheep Company and Cottonwood Coal Company, with reference to certain lands to be deeded by the Sheep Company to the Coal Company when the Sheep Company correct certain flaws now existing in its title Mar.9, '08
- 10 Agreement - Cottonwood Coal Company and William I. Hughes and wife, covering the purposed exchange of certain lands in Fergus County, Montana Jan.13, '08
- 10-B Deed - Cottonwood Coal Company to William I. Hughes and wife, in consummation of agreement above described Jan.26, '09
- 10-C Deed - William I. Hughes and wife to the Cottonwood Coal Company, in consummation of agreement (No.10) Feb.23, '09
- 11 Lease - W. A. Conklin, Lessor, to Charles Lochrey, Lessee - 1920 acres of coal land southeast of Stockett, in T. 18, R. 5, Cascade County, Montana Mar.12, '08
- 12 Lease - Cottonwood Coal Company to William I. Hughes, covering certain lands in Fergus County, Montana Apr.15, '08
- 13 Letters - H. V. Winchell to C. H. Babcock, transmitting certain original papers May 5 and June 20, '08
- 14 Receipts for deeds sent Right-of-way and Land Commissioner Great Northern Railway, for file July and Aug. '08
- 15 Option - W. A. Conklin to Charles Lochrey, covering lands in Cascade County, Montana Sept.29, '08
- 16 Option - Geo. P. Kessner and wife to John J. Doherty, covering SE $\frac{1}{4}$  of SW $\frac{1}{4}$ , Sec. 6, T.18, R.5, and privilege to build rope haulage tracks, dig ditches, etc., across Lots 4,5,6, and 7, T.18, R.5, Cascade County, Montana "
- 17 Option - Wolfgang Raunig to Chas. Lochrey, covering E $\frac{1}{2}$  of NW $\frac{1}{4}$ , and NE $\frac{1}{4}$  of SW $\frac{1}{4}$ , and W $\frac{1}{2}$  of SE $\frac{1}{4}$ , NE $\frac{1}{4}$  of SE $\frac{1}{4}$ , and SE $\frac{1}{4}$  of NE $\frac{1}{4}$ , Sec. 7, T.18, R. 5, Cascade County, Montana "
- 17-A Satisfaction of Mortgage - T.B. Anthony to Wolfgang Raunig, affecting land described in No.17, Mar.8, '09

- 17-B Deed - Wolfgang Raunig and wife to Cottonwood Coal Company, covering land described in No. 17 Mar. 8, 1909
- 18 Option - Alois Raunig to John J. Doherty, covering Lots 1 and 2, SW $\frac{1}{4}$  of NE $\frac{1}{4}$ , and NW $\frac{1}{4}$  of SE $\frac{1}{4}$ , Sec. 6, T. 18, R. 5, Cascade County, Montana Sep. 29, 1908
- 19 Option - Urban Raunig to John J. Doherty, covering W $\frac{1}{2}$  of NE $\frac{1}{4}$ , and NE $\frac{1}{4}$  of NE $\frac{1}{4}$ , Sec. 7, SW $\frac{1}{4}$  of SE $\frac{1}{4}$ , Sec. 6, T. 18, R. 5, Cascade County, Montana "
- 19-A Deed - Urban Raunig and wife to Cottonwood Coal Co., covering lands described in No. 19 Mar. 8, 1909
- 20 Receipt from Right Of Way and Land Department for certain Cottonwood Coal Company original papers turned over by Attorney I. Parker Veazey, who closed the deal for Fergus County, Montana, lands with the Sage Creek Sheep Co. Oct. 16, 1909
- 21 Option - John J. Doherty and wife and Chas. Lochrey and wife to Cottonwood Coal Co., to explore and purchase, if desired, certain feehold and leasehold interests in lands near Stockett, Cascade County, Montana, until March 29, 1909 Oct. 28, 1908
- 21-A Assignment of lease - Chas. Lochrey and wife and John J. Doherty and wife to Cottonwood Coal Company Mar. 6, 1909
- 21-B Deed - Chas. Lochrey and John J. Doherty and wives to Cottonwood Coal Company "
- 21-C Agreement - John J. Doherty and wife and Chas. Lochrey and wife with Cottonwood Coal Co., assigning certain options for purchasing lease of lands in T. 18, R. 5, Cascade County, Montana Oct. 28, 1908
- 22 J.W. Sarzin and wife to Cottonwood Coal Co., covering minerals under NW $\frac{1}{4}$  of NW $\frac{1}{4}$ , Sec. 7, T. 18, R. 5 Mar. 16, 1909
- 23 Abstract of title - Property owned by Wolfgang and Urban Raunig, Cascade County, Montana
- 24 Deed - Geo. P. Kessner and wife to Cottonwood Coal Company, covering certain privileges over S $\frac{1}{2}$  of SW $\frac{1}{4}$ , Sec. 6, T. 18, R. 5, Mar. 6, 1909
- 24-A Satisfaction of Mortgage - John McNamara to Geo. P. Kessner Mar. 11, 1909
- 25 Option - W.A. Conklin and wife to Cottonwood Coal Company, covering certain lands in T. 18, R. 5, Cascade County, Montana Mar. 22, 1909



- 26 Receipt from C.H.Babcock, Right Of Way and Land  
Com'r - Sundry Cottonwood Coal Company original  
papers May 15, 1909
- 27 Receipt of Chas. H. Babcock, Right Of Way and Land  
Com'r - Sundry other papers in connection with  
United States patents in favor of John Leslie,  
Archie MacGregor and Emerick Ignac, covering certain  
lands in Fergus County, Montana.
- 28 Deed - John Eisenbart and wife to Cottonwood Coal  
Company - Coal on or under  $S\frac{1}{2}$  of  $N\frac{1}{2}$  of  $SW\frac{1}{4}$  of  $SE\frac{1}{4}$ ,  
Section 26, 19-4, Cascade County, Montana - - - - Nov. 21, 1913
- 29 R/W license Louis W. Hill to Great Falls Power Company  
for power transmission line over  $SE\frac{1}{4}$  of  $SE\frac{1}{4}$ , Section  
2, T. 18, R. 16, Cascade County, Mont. (Belt Creek coal  
lands) August 1, 1915..... Aug. 1, 1915.
- 30 Lease - Cottonwood Coal Company to Brown Coal Company,  
covering  $N\frac{1}{2}$  of  $NE\frac{1}{4}$ , Section 18, 19-5, Cascade County,  
Montana..... Nov. 30, 1915
- 31 Oil & Gas Lease - Between Cottonwood Coal Co. and J. F.  
Bippus, dated June 14, 1916, - Permission to drill for  
oil on certain lands of the Cottonwood Coal Company..... June 14, 1916.
- 31-A Agreement consenting to the assignment of agreement between  
Cottonwood Coal Company and J. F. Bippus & Company, to  
the Montana Gas & Oil Company..... June 14, 1916
- 32 Agreement between Cottonwood Coal Company and the Brown  
Coal Company, covering the use of certain ventilating equip-  
ment at the No. 7 mine, near Stockett..... Mar. 7, 1917
- 33 Agreement between the Great Falls Power Company and the  
Cottonwood Coal Company, extending original Power  
Company's contracts covering current furnished Lehigh and  
Stockett (See 4077 for previous contract)..... Sept. 10, 1917
- 34 Agreement between Cottonwood Coal Company and the Brown Coal  
Company, covering purchase of coal, and lease to the latter  
Company, for coal mining purposes, of certain property  
in Cascade County, Montana..... Nov. 14, 1917.



CUYUNA RANGE

FILE NO.

General File - - - - - 2013

Lands offered by A. W. Bawden, Torrey Bldg., Duluth, - - - - - 2013-A.

Map of in top drawer of map case. Shows magnetic attractions,  
ownerships, and some of the ore bodies, - - - - -

Lands offered by Todd & Mayo, - St. Paul - - - - - 2013-B

"D"

GENERAL	FILE NO.
Diamond-Vale Coal & Iron Mines, Ltd. - Nicola Coal Fields (Quil-chene Basin) Yale District, B. C.	2042
Day Lands, St. Louis County, Minn. offered for exploration	2047
Diamond Drills - Drilling, etc. - General data regarding - - -	2060
Dickenson, G. W. - Columbia Copper Co. - - - - -	2156
Davies, Benj. - Truma Coal Co., Great Falls, Mont. - - - - -	2170
Coal property on Vancouver Island, described as Dunsmuir hold- ings, submitted by G.B.French (Z.M.Hamilton) - - - - -	2197
Driscoll, A.: Coal lands offered by - - - - -	2206
Davis, Sewell: Mackton Coal Company property, Section 18, Township 28, Range 14, East, near Big Sandy, Choteau County, Montana - - - - -	2209
Dunlop, W. N. - Coal lands in old Crow's Nest Pass District, offered by - - - - -	2215
Driver, Arthur; Offer of coal lands near Monroe, Snohomish County, Washington - - - - -	2229
Duncan, W.E.; Offer of coal land near Tullemeen, British Col.-	2230
Derry, G.H.; Offer of coal land in Nicola Valley, B.C. - - - -	2240
Duncan, W. E. Offer of coal property in Nicola Valley, B.C.- -	2247
Dwyer, Wm., Attempted lode locations, Butte, - - - - -	2250
Dividend-Lake View Consolidated Gold Mining Co, J.L. Greatsign- er, and others interested, - - - - - (See General Traffic Manager's File No. 2114)	
Dutch Miller and Bahoster claims of the Seattle-Boston Copper Company, Burns Mining District, King County, Washington	2292
Dally and Peterson; Coal prospect west of north fork of Flathead River, British Columbia - - - - -	2325
Daly, E.M. Offer Iron Ore prospect near Keremeos, B.C. - - - -	2332
Dippie, G.A.; Offer coal property in Kananaskis Valley, Alberta	2333
Dumphy Tract - application to purchase-----	2374

## "E"

GENERAL	FILE NO.
Eden, B. M. - Coal property near Taber, Alberta - - - - -	2023
Eckel, Edwin C. - Southern Iron Ores - - - - -	2033
Employes - Personal record of - - - - -	2037
Eden, B. M. - Coal property offered - Location, Stikine Co. or District, B. C. - - - - -	2039
East Butte Mining Co., Butte, Mont.- Disputs with Nor. Pac. Ry. Co. - - - - -	2066
Exploration Agreement, Between Hill-Longyear and Bennett, May 1st, 1806, - - - - -	2071
Electric Smelting of Iron Ores, - - - - -	2132
Eastman, Dr. A.M.,- Atikokan and Steep Rock Ranges, Ontario, Canada, - - - - -	2138
Expense Accounts of Employes, General, - - - - -	2144
Evans, D.: Coal lands offered in British Columbia, by - - -	2203
Elk Valley Coal and Coke Company - - - - -	2237
Ellensburg - Coal lands near Ellensburg and Cle Elum, Wash. offered by James Nolan - - - - -	2334
Elizabeth mine - General-----	2380 - <i>See 5369</i>

## "F"

GENERAL	FILE NO.
Franklin, A. G.- Coal land in Coldwater District, near Nicola, B. C. - - - -	2024
Folwell, Prof. W. W. - Letter to regarding tonnage in Minnesota State lands - - - - -	2026
Fleming, John - Copper property near DesPass, Wy. - - - - -	2027
Fergus County, Montan Coal Explorations, - All accounting correspondence in connection therewith, - - - - -	2105
Franklin Mining District, on north fork of Kettle River, beginning at Mt. McKinley, 40 miles north of Grand Forks, and extending northerly some 15 miles - - - - -	2157
Franklin, A. G.,- Offers property of Tulemeen Coal and Coke Co., along Grantite Creek, British Columbia, - - -	2072
Faulds, Alexander; 2,000 acres of coal land, known as the Lauderdale Coal Property, localted 1½ south of Cowley, Alberta - - - - -	2254
Ford Coal Claims, Tps.17 & 18, R.6, West, 50 miles southwest of Calgary, Alberta, Canada. - - - - -	2281
Fachiri-Antonio-Coal property on North Fork of Flathead Country, Montana - - - - -	2318
Flathead Oil Fields, Southeast Kootenays, British Columbia - --	2343
Fountain Pride Mining & Milling Company, report on, covering properties located in San Juan County, Colorado, submitted by Wm. Ely Bramhall--	2361
Ferguson, John B. - Beaver Colliery - Canadian Coal & Coke Company-----	2362
Flathead River, coal property at head of waters of, submitted by Frank C. Greene-----	2373



G

"G"

G E N E R A L		FILE NO.
Geological Survey, U. S. Coal	- - - - -	2000
Geological Survey, Canadian	- - - - -	2001
Geological Survey, U. S. General	- - - - -	2002
Gypsum - Deposit near Armington, Montana,	- - - - -	2007
Gas - Natural, near Westhope, N. D.	- - - - -	2011
" " " Medicine Hat, Alberta, Canada,	- - - - -	2115
Gerber Mine - Cascade County, Montana	- - - - -	2017
Giegerich, H.- Province and Montezuma Mines; Slocan Section, W. Kootenai Dist., near Kaslo, B.C.		2020
General Development Co.- Dumping refuse on Right of Way, Butte		2028
Great Northern Copper Company	- - - - -	2036
Granite Creek Coal - sample from point 12 to 15 miles north of Princeton, B. C.	- - - - -	2056
Good, R. B.- Application to remove coal from outcrop on Alberta coal lands	- - - - -	2058
Great Falls Townsite Co.- Iron claims on Running Wolf Creek, near Great Falls, Montana	- - - - -	2059
Gilmore, William - Offer of coal property near Edmonton, Alberta, Canada	- - - - -	2067
Gordon River Iron Ore Company claims on west coast of Vancouver Island, B.C.	- - - - -	2091
Gypsum, General,	- - - - -	2106
Gebo Coal Field, near Kirby, Fremont Co., Wyoming,	- - - - -	2109
Grand Mesa Coal Field, Colorado,	- - - - -	2128-1
Granby Consolidated M. S. & P. Co., Phoenix B.C.,	- - - - -	2136
Gasser, M. M. - Property on Mesabi Iron Range, Minn.,	- - - - -	2145
Guthrie, A. - NE-SE, Sec. 14, 58-20 (Mesabi Range)	- - - - -	2153
Gillespie, F.M. - silver and iron claims	- - - - -	2159
Gas - invention for producing industrial gas from low grade coal -Walter Thomas	- - - - -	2360

"G"

GENERAL

SHEET 2.

FILE NO.

Graham Island, Queen Charlotte Group; coal property offered by D.A. Richardson - - - - -	2174
Greene, F. C. - Cleveland, Ohio: Report on Tulameen Coal & Coke Co's property - - - - -	2072
Gold ore, John R. Parks' process for treating, - - - - -	2223
Geddes, Wm. - Coal prospect in T. 9, R. 5, Alberta - - - - -	2260
Gleason, Patrick; Lowney, Timothy; Lease from South Butte Mining Company covering Preferencia Claim, Butte, Mont. - - - - -	2265
Graham Island (B.C.), Coal and Timber Syndicate, Ltd. - - - - -	2275
Gerber, Ed. - Coal properties - - - - -	2293
Coat Mountain Coal- Sun River Valley, Montana - - - - -	2246
Grand Marais, Minnesota, Iron ore near offered by J.T. McChesney	2322
Glover, K.G. Copper property near Conconully, Washington,	2338
Geyser, Montana; Supposed oil discovery near - - - - -	2340
Galloway, B.C.; Iron ore near; Ed. Pearson, Report by Charles F. Jackson - - - - -	2345
Great Falls - striking oil near - Power City Oil Co. & Natural Gas Co. - - - - -	2349
Graphite & asbestos mines owned by Washington Mining & Manufacturing Co. - report on - 1890 - - - - -	2364
Greene, Frank C., coal properties submitted by - Flathead River - - - - -	2373

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GEORGIA

FILE

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G O L D

Prospect offered by Herbert C. Brown, Hedley, B.C. - - - - - 2113

Claims of O. F. Schoenfeld in Little Belt Mtns., Cascade  
County, Montana, - - - - - 2139

GREAT WESTERN MINING COMPANY

Lease with West Missabe Land Company, Limited, and other companies,  
dated January 2, 1907 - General - - - - - 2030  
Explorations under - - - - - 2031

O.V.GREENE

FILE

Trip of O.V.Greene (Aug.-Sept.1912) over territory contiguous  
to V.V.& E. Ry. British Columbia, and report on possible  
coal fields in that territory - - - - - 2306



FRED T. GREENE

FILE NO.

General File - - - - -	2008
Examination of gypsum deposit near Armington, Montana - - - - -	2007
Report for N. P. on coal possibilities in sections 25, 27, 29, 31, 33 and 35, T9N, R24E, Mont. - - - - -	2034
Report on Iron Claims of Great Falls Townsite Co., near Great Falls, Montana, - - - - -	2059
Report on coal field 6 to 14 miles east of Musselshell, Mont., <sup>T9R30</sup> - - - - -	2064
Trip to and examination of Emil Voight properties, Copper Mtn. District, Similkameen Division, Yale District, B.C. and the properties of the Copper World and the Copper World Extension Companies in Okanagon County, Washington, - - - - -	2104
Report on coal fields in Fremont County, Wyoming, known as Gebo, Kirby, and Thermopolis Coal Field, - - - - -	2109
Examination of Boundry Creek Iron Claims, along Boundry Creek, about one mile north of the international boundary, British Columbia, - - - - -	2135

F. C. GREENE, MINING ENGINEER.

Report on the iron ores of Texada Island compiled from various authorities by F. C. Greene - - - - -	-2270
Report on Tulameen Coal and Coke Company's property - - - - -	2072
Report on territory between Princeton and Nicola B. C., as well as on the coal prospects of each of these camps - - - - -	-2271
Interest in Graham Island (B.C.) Coal and Timber Syndicate, Limited - - - - -	-2275
Memo. based on various reports on Diamond Vale Collieries property at Merritt, Nicola Valley, B.C. - - - - -	-2043

"H"

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Havre, Montana- Coal near - - - - -		2015
Havre Coal Company Mine - - - - -		2015
Hughes Mine - T. 15, R. 12, Fergus County, Montana - - - - -		2055
Hilligoss, W. J.,- Sample of copper bearing rock picked up in Township 33, Range 17 East, Montana, between upper end of Lake McDonald and upper St. Marys Lake - - - - -		2088
Hester and Astley, Calgary, Alberta, Canada, Coal lands offered, -		2116
Hamilton, W.E.,- 5,760 acres coal land 4-1/2 miles from Crows Nest Sta. on C.N.Pass Ry., British Columbia, - - - - -		2137
Hylands W.J. - (South Butte Copper Mining Co.) - - - - -		2149
Golden Mine, Lake Chelan District, Washington, - - - - -		2155
Heppner Railway & Coal Co. - coal lands in Morrow County, Oregon -		2188
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Hamilton, Z.M.: Coal property on Vancouver Island, described as Dunsmuir Holdings, submitted by G.B.French - - - - -		2197
Hind, Bert H.: Coal lands offered in Montana - - - - -		2201
Hensler, Gust: Coal lands near Hamilton, Skagit Co., Wash. - - -		2217
Hurd, J. D.; British Columbia Coal lands offered - - - - -		2237
Hill, W.J.: Vice President Nelson & Fort Sheppard Ry. Co. - - -		2288
Hopkins, H.C., Coal prospect near Lewistown, Montana - - - - -		2294
Hound Creek Coal Property-----		2253
Hound Creek, Montana, Coal prospects, - - - - -		2339
Helena, Montana , property near (Dumphy tract) application to purchase-----		2374
Hierman, E. E., coal lands near Armington, Montana, offered by-----		2378
Hartley, G. G. - Cavour mine - traffic contract-----		2383

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## GENERAL

## FILE

Irving, Robert,- Zinc smelting proposition, - - - - -	2080
Introductory letters, - - - - -	2148
International Development Co., coal stock offer and map of workings	2219
Index, Washington, copper property near, - Sunset mine-----	2377

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Iron Claims of Great Falls Townsite Co., near Great Falls, Montana - - - - -	2059
Iron indicates <sup>iron</sup> -Castle Mountain District, Meagher County, Mont.-	2061
Irving, Robert - zinc smelting proposition - - - - -	2080
Iron - Claims of the Gordon River Iron Ore Company on the west coast of Vancouver Island, B.C. - - - - -	2091
Mesabi Range, Minn., properties offered by Leon E. Lum, of Duluth, Minnesota, - - - - -	2108
Property offerr-ed by F.J. and A.H. Smith, Merrill, Wisc., Located near Barclay Sound, Vancouver Island, B.C.- - -	2110
Property north of Kaiarkon Lake, Rainy River District, Ontario, - - - - -	2111
Iron ore in Chattanooga Region, Tenn., - - - - -	2118
Electric Smelting of, - - - - -	2132
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In British Columbia, - Boundry Creek and Specular Hematite Claims, Nelson Mining District; Near Waunita, West Kootinay District; along Boundry Creek, about one mile north of International Boundry; Reports by Fred T. Greene and H. V. Winchell, - - - - -	2135
Mesabi Range, Minn., Properties offered by M.M.Gasser, Duluth,	2145
Of the Appalachian Region in Virginia, - - - - -	2142
Mesabi Range, Minn.,- Elizabeth Syme properties, - - - - -	2153
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In Fergus County, Montana, - - - - -	2163
In Cuba, - - - - -	2164

*See also*  
2233

*Iron*  
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"I"

IRON ORES

SHEET 2

FILE

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Propositions on deposits in Mexico, - - - - -	2220
Prospecting for, near Kelliher, Minn. on M. and I. Ry. - - - - -	-2221
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Deposit in British Columbia, controlled by H.H.Shallemberger, three miles east of the junction of the Salmon and Pend d'Oreille Rivers and 18 miles east by wagon road from Waneta on the Marcus Division, G.N.Ry. Letter regarding by E. H. Mac Donald - - - - -	2233
Analyses book of Oglebay Norton and Company for year 1911 - - - - -	2252
Attempt to reduce R. R. rates on, in Minnesota - - - - -	2258
Prospect on West Coast of Mexico; J.M.Cannon - - - - -	2261
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Texada Island, B.C., Iron ores of- (F.C.Greene compilation) - - - - -	-2270
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In Washington - Sundry propositions and data - - - - -	2282
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Lake Iron Ore Shipments - - - - -	2003
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IRON ORES	SHEET 3	FILE
Bull River Iron mines, Fenwick Mountain, East Kootenay, B. C. within five miles of Wardner and nine of Jaffray (C.P.R.) and within fifteen miles of Elko on the G.N.-Ferne Branch		2291
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Dip Needle reconnoissance and report on lands in T.36,R.31 W., adjoining Towns of East St.Cloud and Sauk Rapids,Benton County, Minnesota, by A.C.Oberg - 1913 - - - - -		2319
Near Grand Marais, Minnesota offered by J.T.McChesney - - - - -		2322
On Blackfeet Indian Reservation, Montana - - - - -		2326
In Wisconsin, General - - - - -		2329
Iron Ore in Wyoming - - - - -		2331
Near Keremeos, B.C.offered by E.M.Daly- - - - -		2332
Near Galloway, British Columbia, Ed. Pearson; Report by Chas. F. Jackson - - - - -		2345
Iron Deposit-Black Butte, Meagher Co., Mont.-Report by Calvert C. Coates - - - - -		2353
In San Juan County, Colorado - Wm. Ely Bramhall-----		2361
In Meagher County, Mont. - report on, by C . J. Stone-----		2368

"J"

GENERAL

SHEET 1.

FILE NO.

Jackson Coal lands, near Blairmore, Alberta - - - - - 2192

Johnson, E. C.: Coal lands in Central Arkansas, offered by - - - - 2202

Jenks, C.O. - Coal properties - - - - - 2293

Jackson, Charles F. (G.N.I.O.Props.) Report on iron ore prospect  
near Galloway, B.C., offered by Ed. Pearson - - - - - 2345



## "K"

GENERAL	FILE NO.
Keady, Lynn G.- Metaline District, lower Pend d' Oreille River, Stevens County, Washington, - - - - -	2006
Kaslo, B. C. Province and Montezuma Mines, Slocan Section, West Kootenai District - - - - -	2020
Kennedy, H. A.- Mining on Right of Way at Butte - - - - -	2028
Kirby Coal Field, Fremont County, Wyoming, - - - - -	2109
Kaiarkon Lake, Rainy River District, Ontario,- Iron property north of offered by H. L. Young, - - - - -	2111
Kerr, Wm.: Offer of coal property near Princeton, B.C. - - - - -	2195
Kelliher, Minn., on M. and I. Ry.,- Prospecting for iron ore near, - - - - -	2221
Kansas, Coal, General, - - - - -	2273

*Kentucky*

"K"

KENTUCKYFILE

Coal - general - - - - - 2182

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