

TIPPLES

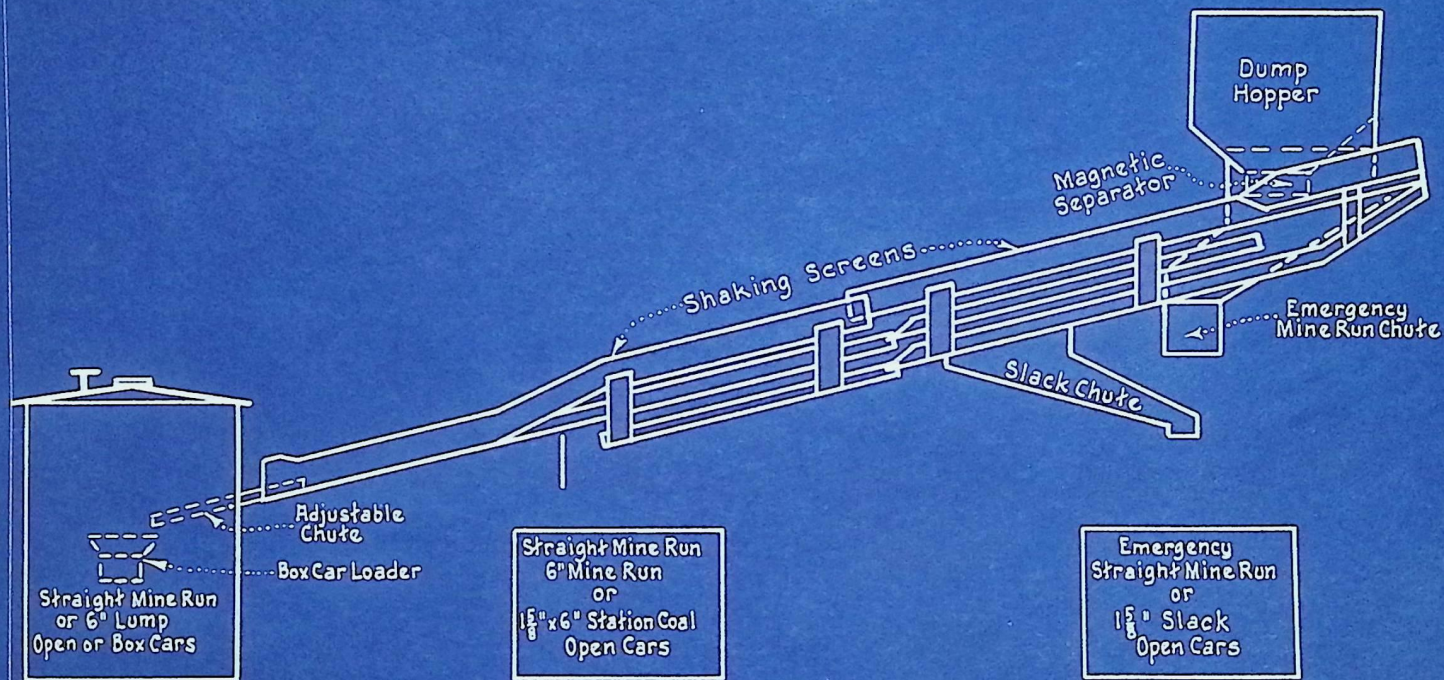
THE UNION PACIFIC COAL CO.

AND

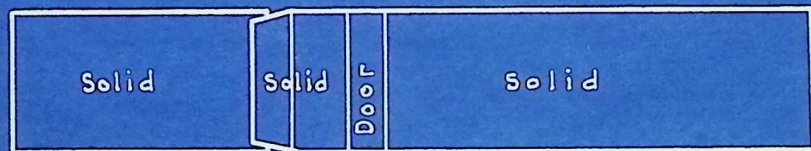
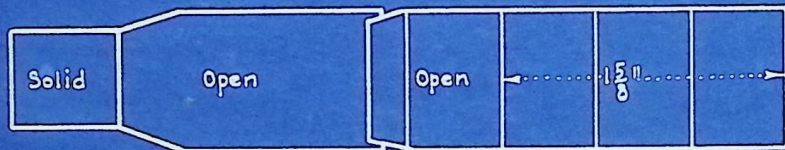
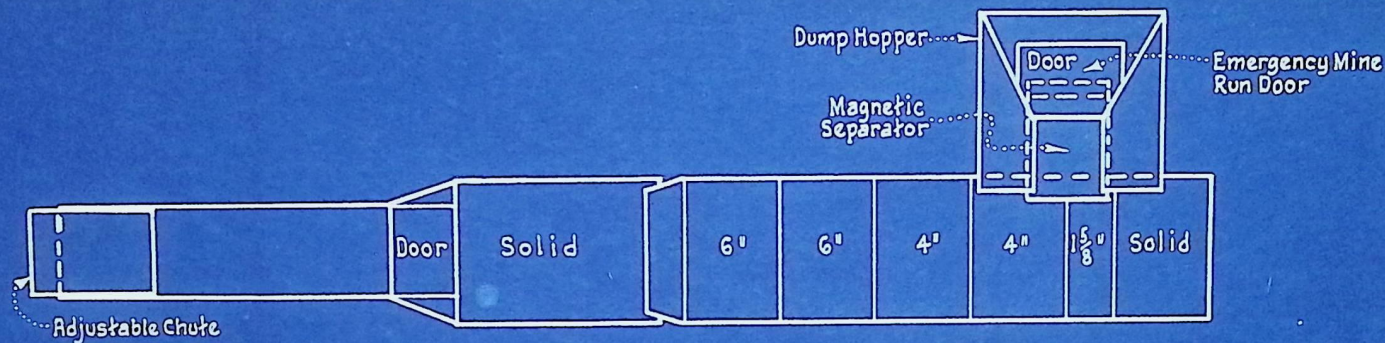
OTHER MINES FURNISHING RAILROAD FUEL

SHOWING

SCREENING FACILITIES, ETC.



Profile Sketch
 ROCK SPRINGS No.4 TIPPLE
 The Union Pacific Coal Co.
 Not to Scale July 10, 1934



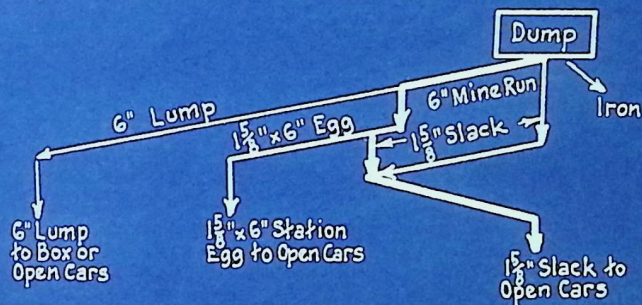
Plan Sketch
 ROCK SPRINGS NO. 4 TIPPLE
 The Union Pacific Coal Co.
 Not to Scale July 10, 1934.

FLOW SHEET
Rock Springs No. 4 Tipple
The Union Pacific Coal Co.
Illustrating Usual Types of Coal Prepared

6 Inch Mine Run - 6 Inch Lump



6 Inch Lump - Station Egg - Slack



Emergency Mine Run
(Method used when Magnetic Separator is broken)



Box Car Mine Run for O.W.R.R. & N.



RESULTS OF SCREEN ANALYSIS

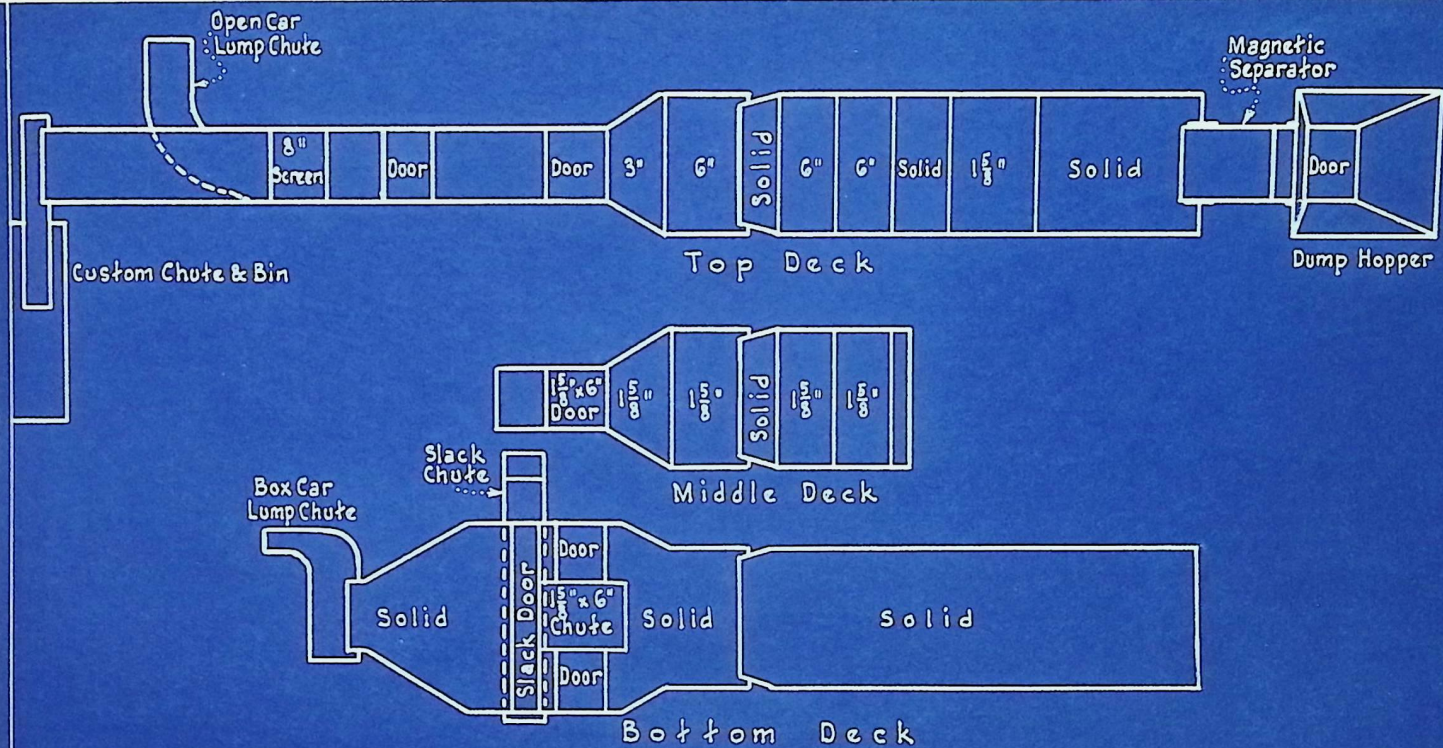
Rock Springs No. 4 Tipple

The Union Pacific Coal Company

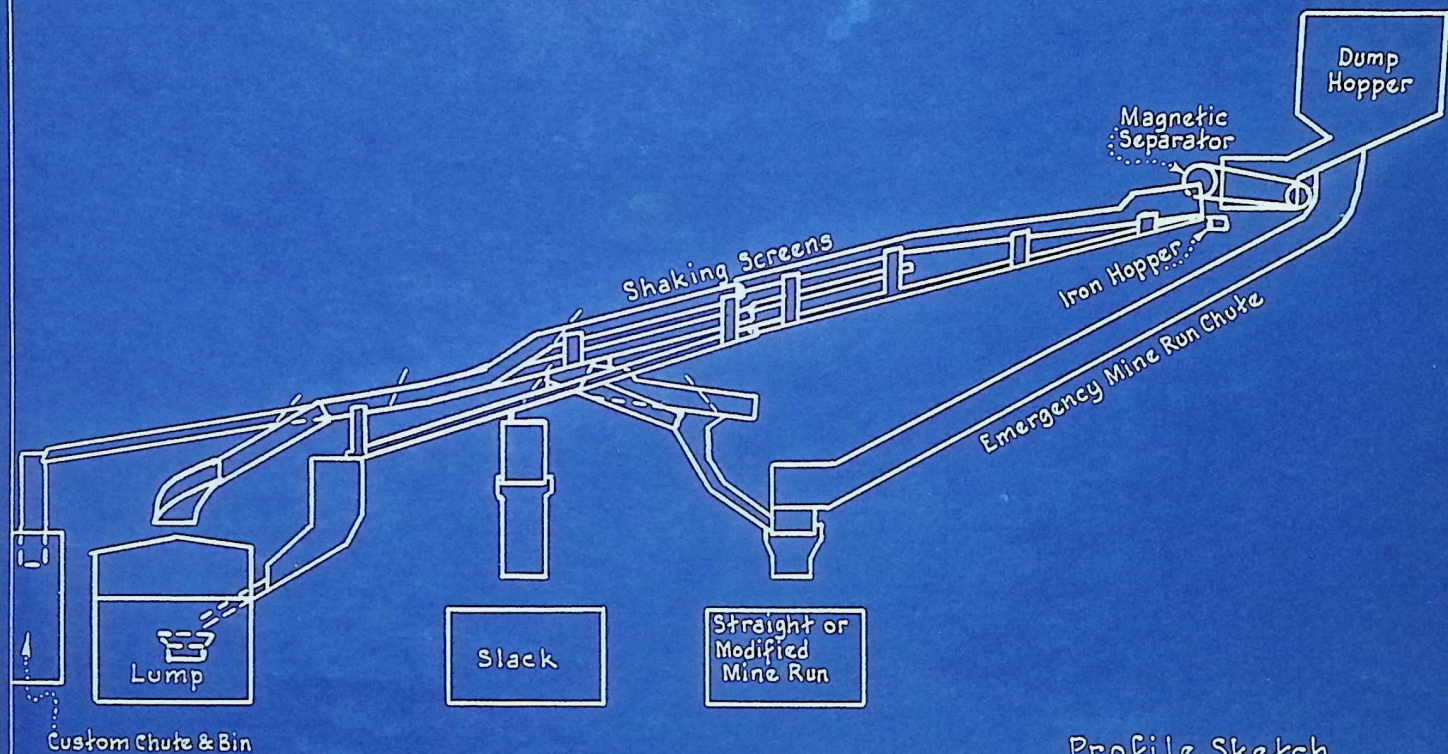
Showing the percentage of the various sizes in the Mine Run Coal.

Through $3/4$ "	17.0%
Through $1\ 5/8$ "	41.4%
$1\ 5/8$ " x 6"	46.8%
6" Lump	11.8%
Length of Test	1 day

When the coal dumped was wet or when dumping rapidly, the slack had a tendency to ride over into the 6 inch coal. It was necessary to estimate the amount going over, therefore these figures may be slightly in error.



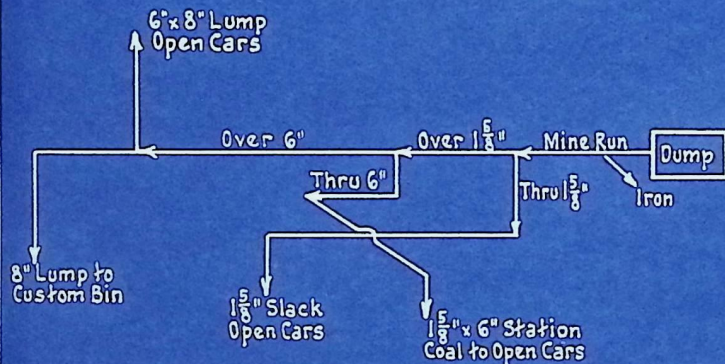
Plan Sketch
 No. 8 TIPPLE
 THE UNION PACIFIC COAL CO.
 Rock Springs, Wyo.
 Not to Scale Aug. 15, 1934.



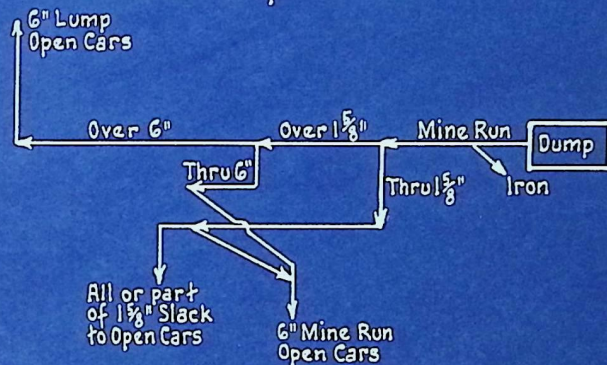
Profile Sketch
 No. 8 TIPPLE
 THE UNION PACIFIC COAL CO.
 Rock Springs, Wyo.
 Not to Scale Aug. 15, 1934.

FLOW SHEET
Rock Springs No. 8 Tipple
The Union Pacific Coal Co.
Illustrating Possible Sizes of Coal Prepared

Station Coal



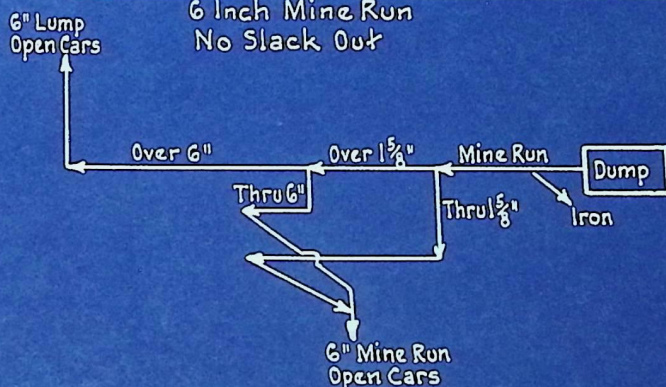
6 Inch Mine Run
All or Part of Slack Out



Straight Mine Run
(Thru Emergency Chute - Magnetic Separator out of order)



6 Inch Mine Run
No Slack Out



RESULTS OF SCREEN ANALYSIS

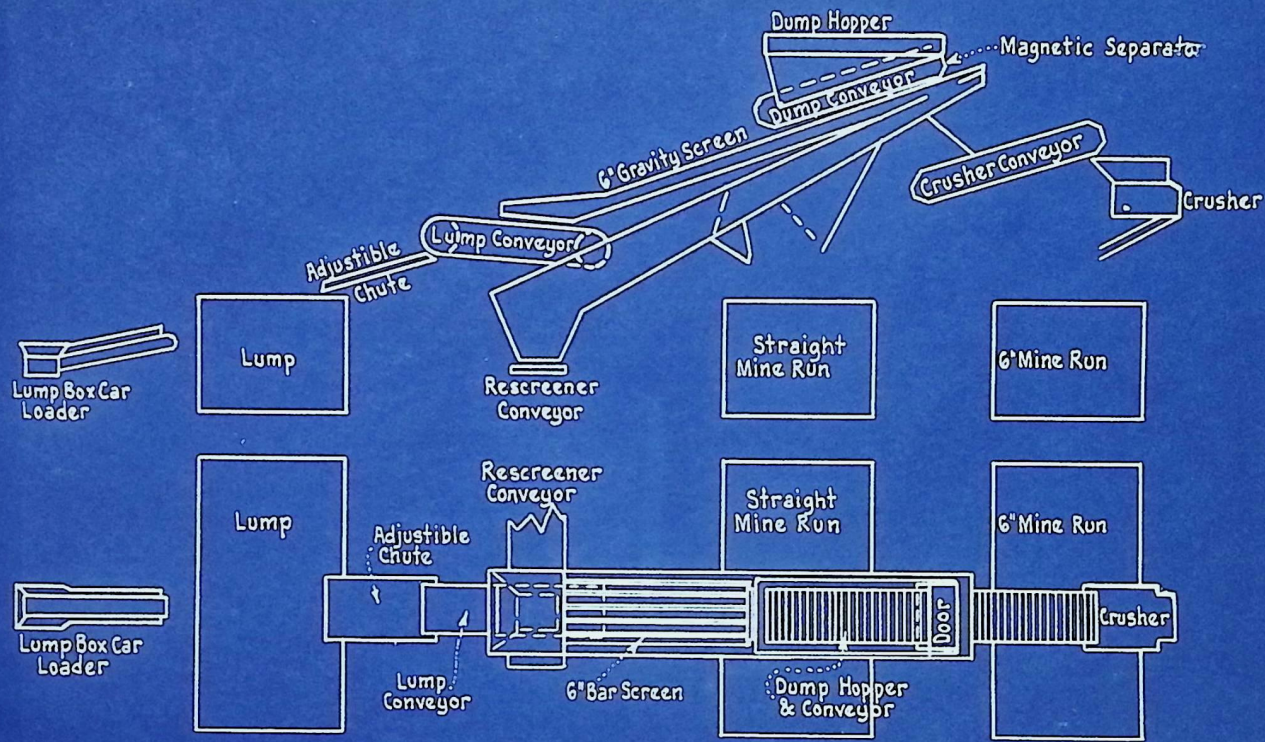
Rock Springs No. 8 Tipple

The Union Pacific Coal Company

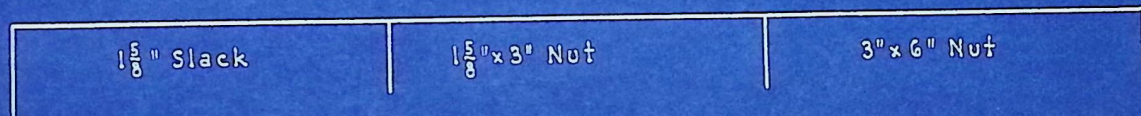
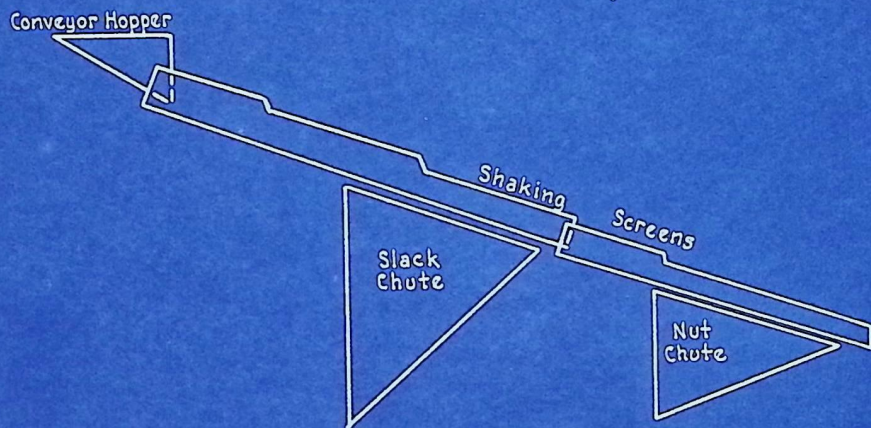
Showing the percentage of the various sizes in the Mine Run Coal

Through 3/4"	21.2%
Through 1 1/4"	32.0%
Through 1 5/8"	49.0%
1 5/8" x 6"	41.0%
6" Lump	10.0%
Length of Test	1 day

When screening the 3/4" and 1 1/4" slack, especially when the coal was wet, part of the slack rode over into the screened coal. Therefore, these figures are somewhat in error, since it was necessary to estimate the amount riding over.



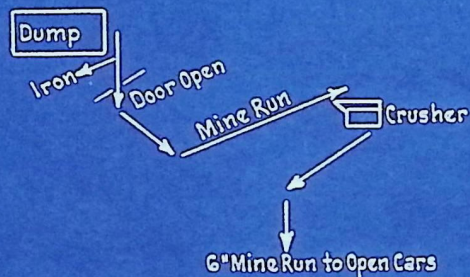
Plan & Profile Sketch
 RELIANCE No. 4 TIPPLE
 The Union Pacific Coal Co.
 Reliance, Wyo.
 Not to Scale Mar. 16, 1934.



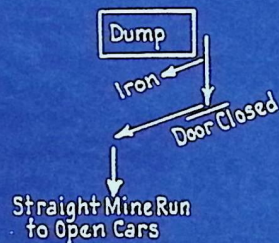
Plan & Profile Sketch
 RELIANCE RESCREENER
 The Union Pacific Coal Co.
 Reliance, Wyo.
 Not to Scale Mar. 16, 1934.

FLOW SHEET
 Reliance Tipple and Rescreener
 The Union Pacific Coal Co. - Reliance, Wyo.
 Illustrating Possible Sizes of Coal Prepared at This Mine

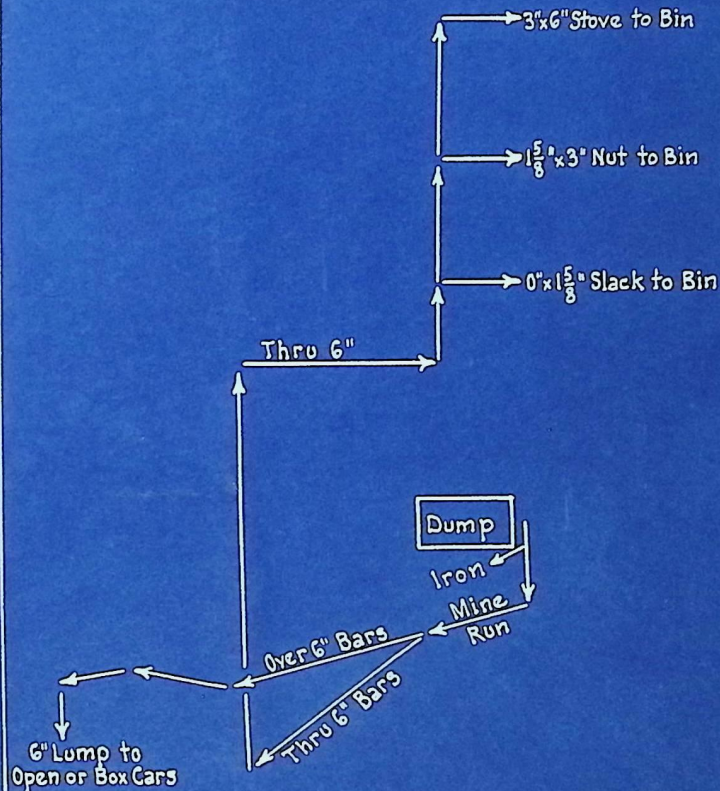
6" Mine Run



Mine Run



6" Lump & Rescreener Coal



RESULTS OF SCREEN ANALYSIS

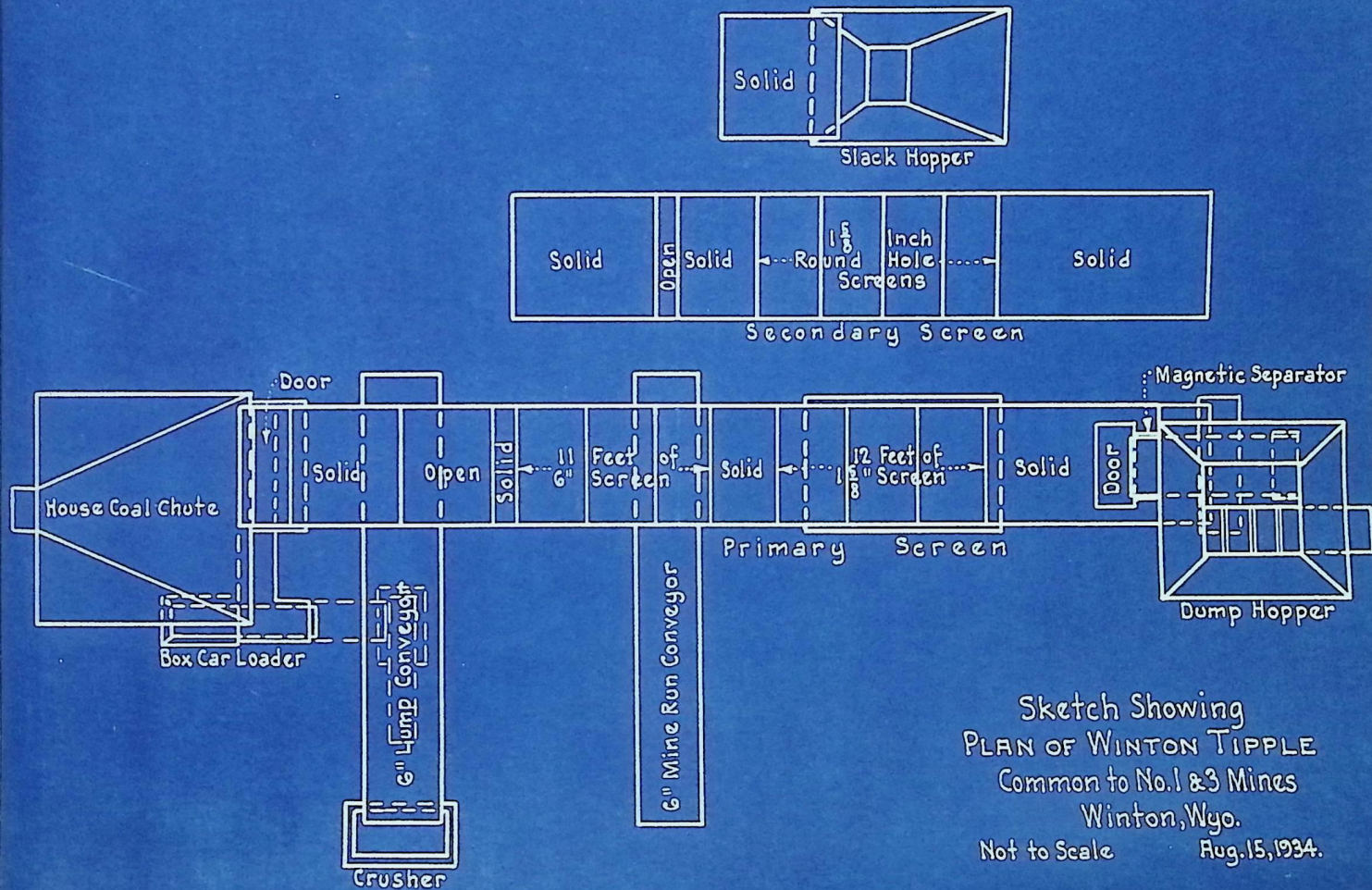
Reliance No. 4 Tipple

The Union Pacific Coal Company

Showing the percentage of the various sizes in the Mine Run Coal

Through 1 5/8"	40 to 45%
1 5/8" x 6"	40 to 45%
6" lump	15%
Length of Test	2 days

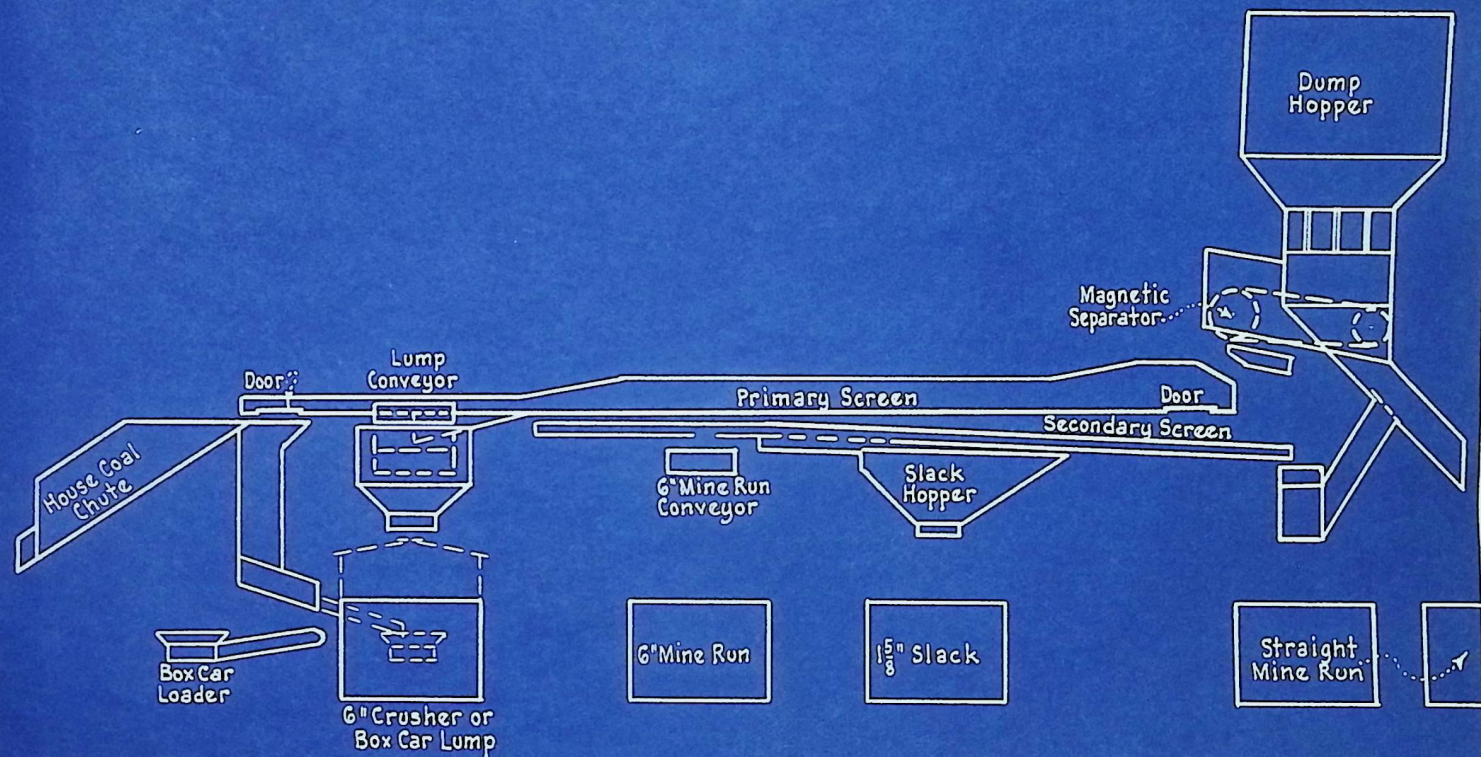
The 6 inch Lump was screened over a gravity bar screen. The various sizes were separated in the rescreening plant and collected in bins. Since the rescreener plant capacity is only about 2/3 of the normal dumping capacity and the excess coal spilled out of the rescreener hopper into a railroad car as 6 inch Mine Run, these figures are more of an estimate rather than the result of a true screen test.



Sketch Showing
 PLAN OF WINTON TIPPLE
 Common to No. 1 & 3 Mines
 Winton, Wyo.

Not to Scale

Aug. 15, 1934.



Sketch Showing
 PROFILE OF WINTON TIPPLE
 Common to No. 1 & 3 Mines
 Winton, Wyo.
 Not to Scale Aug. 15, 1934.

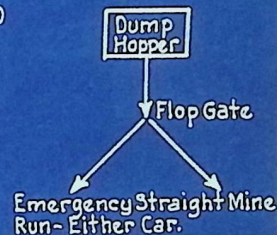
FLOW SHEET

Showing Product of Various Screening Arrangements
Winton Tipple- The U.P. Coal Co
Winton, Wyo.

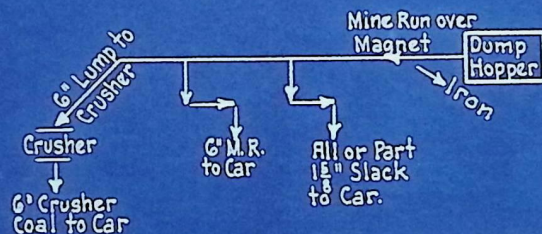
Mine Run over Magnetic Separator



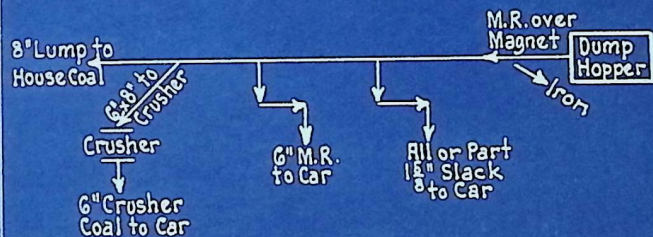
Emergency Mine Run (Magnetic Separator Broken)



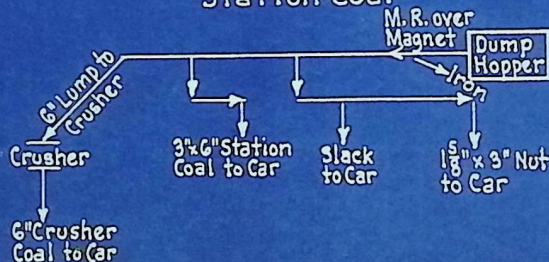
6 Inch Engine Fuel



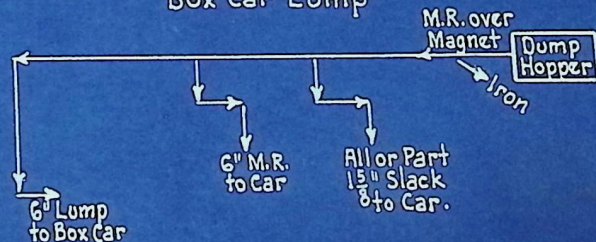
House Coal



Station Coal



Box Car Lump



RESULTS OF SCREEN ANALYSIS

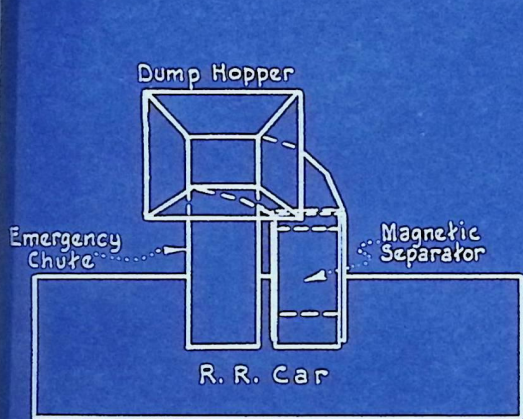
Winton Tipple

The Union Pacific Coal Company

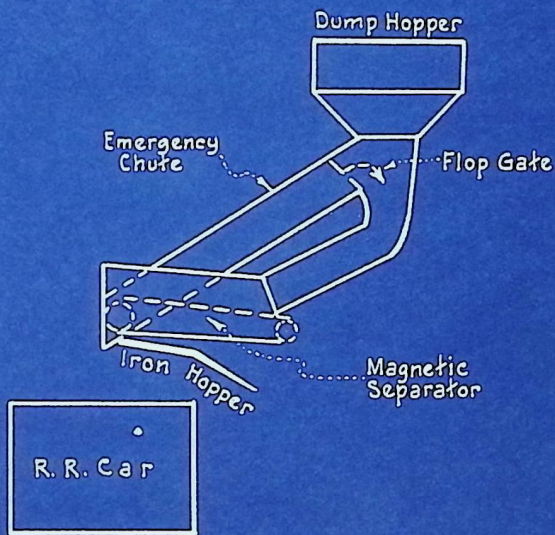
Showing the percentage of the various sizes in the Mine Run Coal

Through 1 5/8"	40.0%
1 5/8" x 6"	45.0%
6" Lump	15.0%
Length of Test	1 day

These figures should be fairly accurate.



PLAN

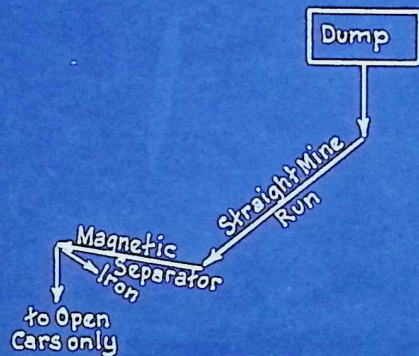


PROFILE

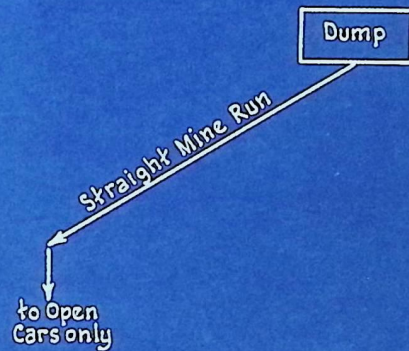
Plan & Profile Sketch
 SUPERIOR "B" TIPPLE
 Common to "B" & "E" Mines
 THE UNION PACIFIC COAL CO.
 Superior, Wyo.
 Not to Scale June 1, 1934.

FLOW SHEET
Superior "B" Tipple
The Union Pacific Coal Co.
Straight Mine Run Only

Straight Mine Run over Magnetic Separator



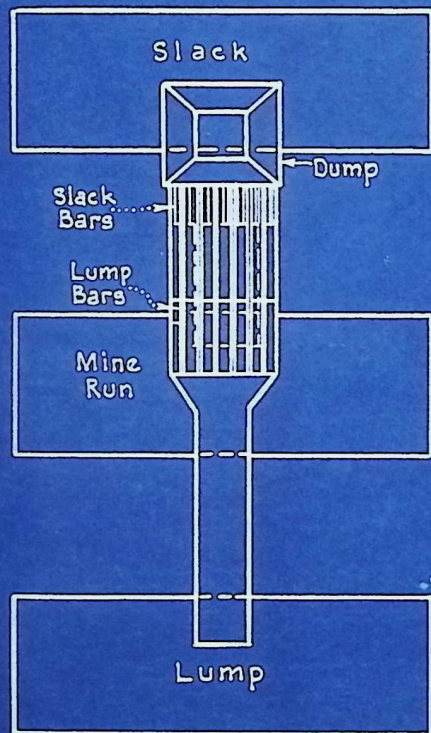
Straight Mine Run thru Emergency Chute
(Used when Magnetic Separator is broken down)



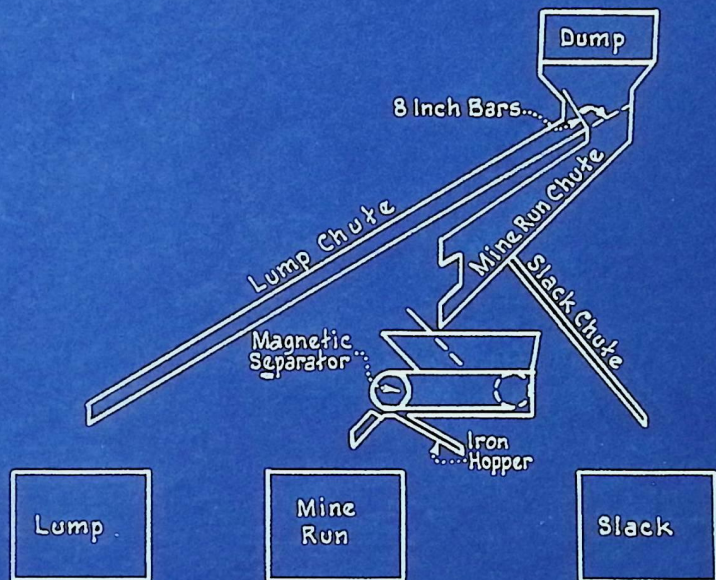
RESULTS OF SCREEN ANALYSIS
Superior "B" Tipple
The Union Pacific Coal Company
Showing the percentage of the various sizes in the Mine Run Coal

Through 1 5/8", Estimated 45 to 50%

Only straight mine run is loaded at this mine. The slack percentage was estimated by comparing the appearance of the coal as dumped with that of coal from mines of which we have screen analyses.



P L A N



P R O F I L E

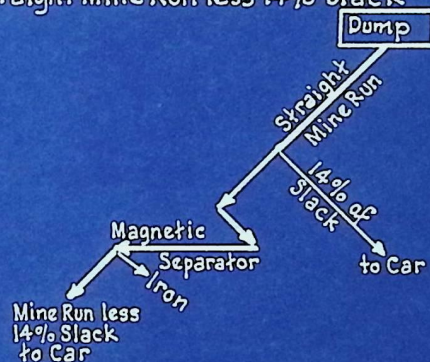
Plan & Profile Sketch
 SUPERIOR "C" TIPPLE
 The Union Pacific Coal Co.
 Not to Scale Aug. 1, 1934.

FLOW SHEET
Superior "C" Tipple
The Union Pacific Coal Co.
Illustrating Possible Sizes of Coal Made

Straight Mine Run



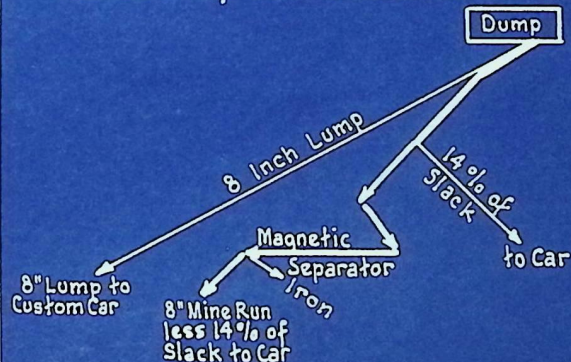
Straight Mine Run less 14% Slack



8 Inch Lump-8 Inch Mine Run



8 Inch Lump-8 Inch Mine Run less 14% Slack



RESULTS OF SCREEN ANALYSIS

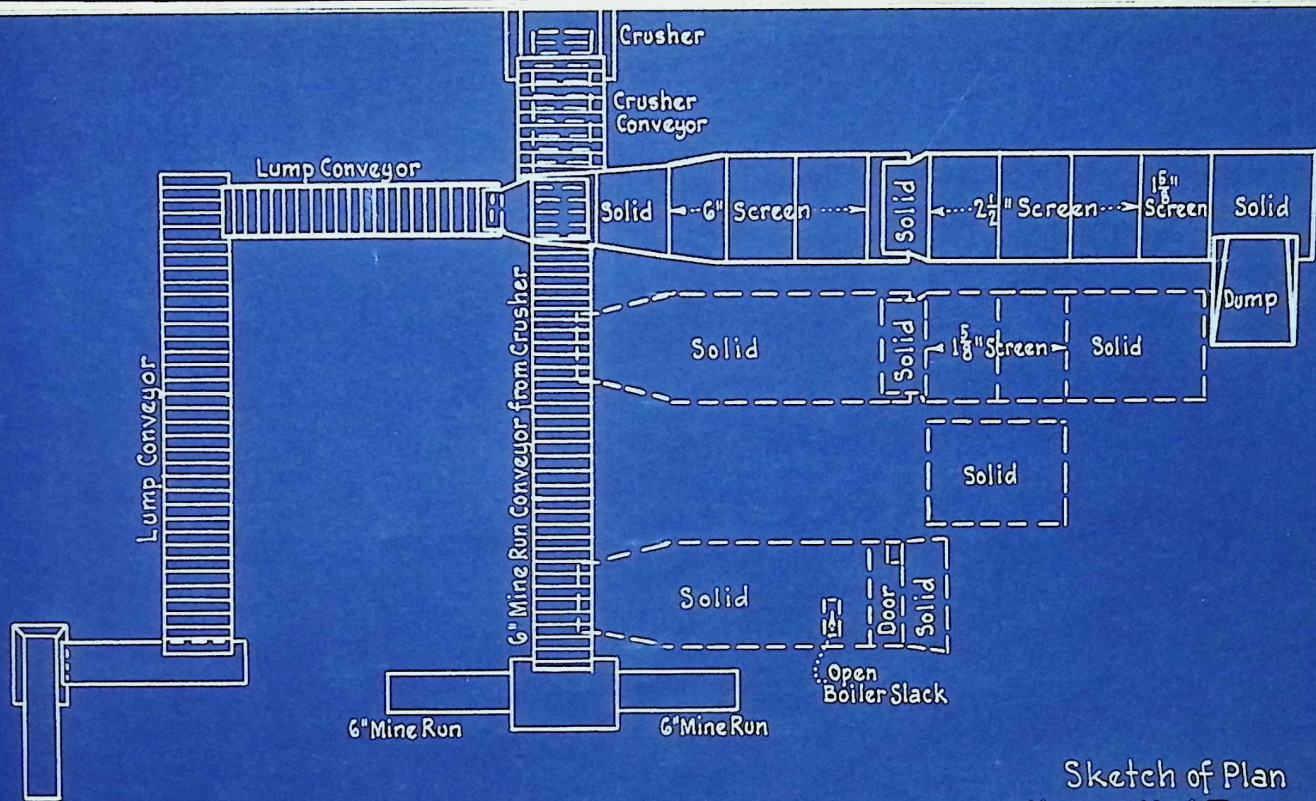
Superior "C" Tipple

The Union Pacific Coal Company

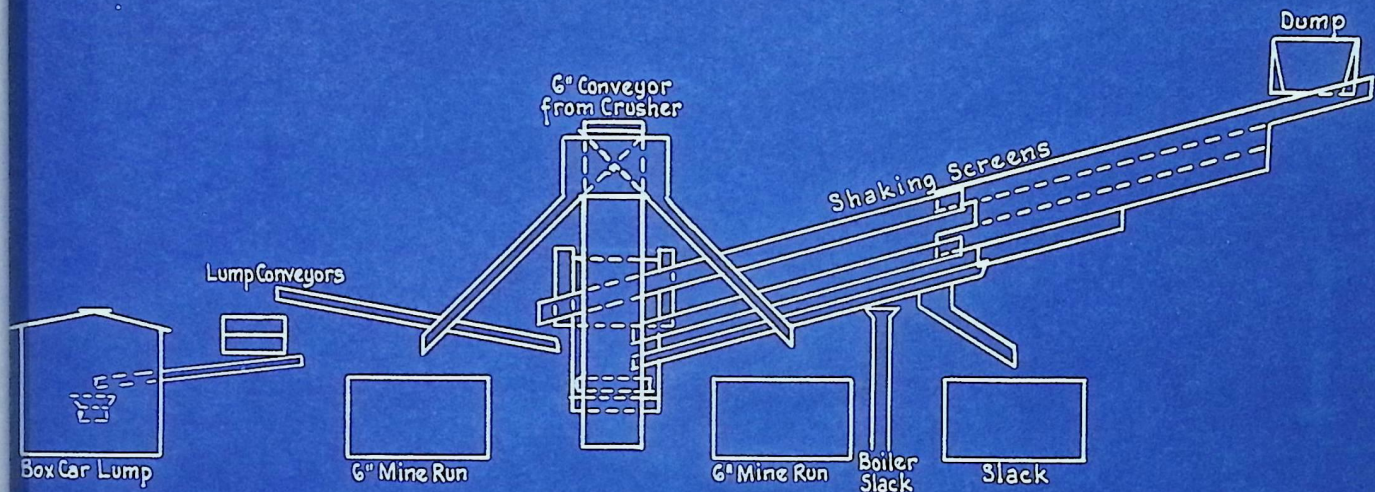
Showing the percentage of the various sizes in the Mine Run Coal

Through 1 5/8", Estimated 55%

Straight Mine Run and 8 inch Mine Run less part of the Slack are loaded at this mine. The slack percentage was estimated by comparing the appearance of the coal as dumped with that of coal from mines of which we have screen analyses.



Sketch of Plan
HANNA No. 4 TIPPLE
The Union Pacific Coal Co.
Hanna, Wyo.
Not to Scale July 10, 1934.

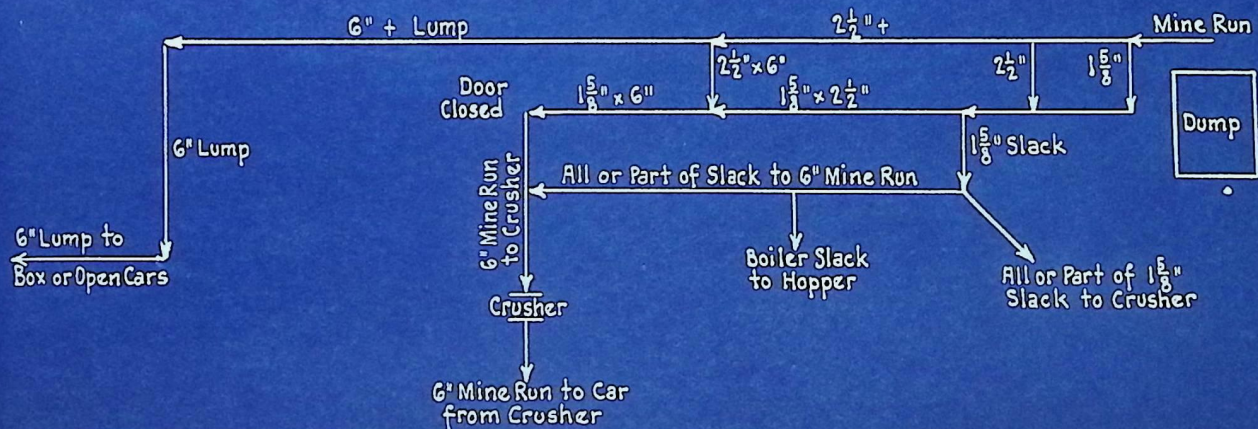
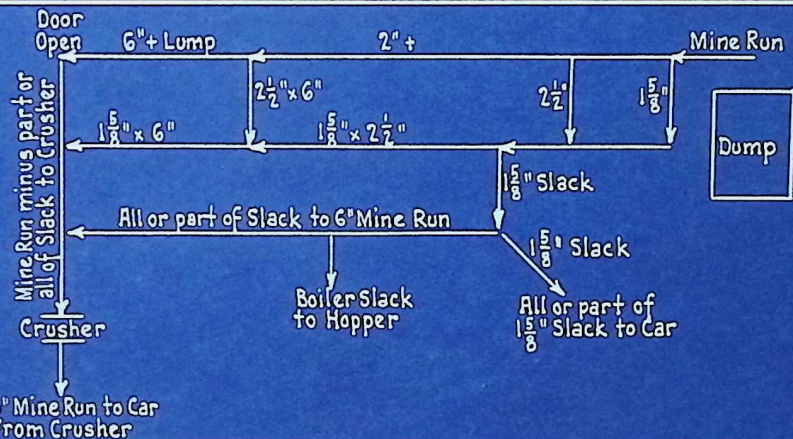


Sketch of Profile
HANNA No. 4 TIPPLE
The Union Pacific Coal Co.
Hanna, Wyo.
Not to Scale July 10, 1934

FLOW SHEET

Showing Product of Various Screening Arrangements

Hanna No. 4 Tipple - The Union Pacific Coal Co. Hanna, Wyo.



RESULTS OF SCREEN ANALYSIS

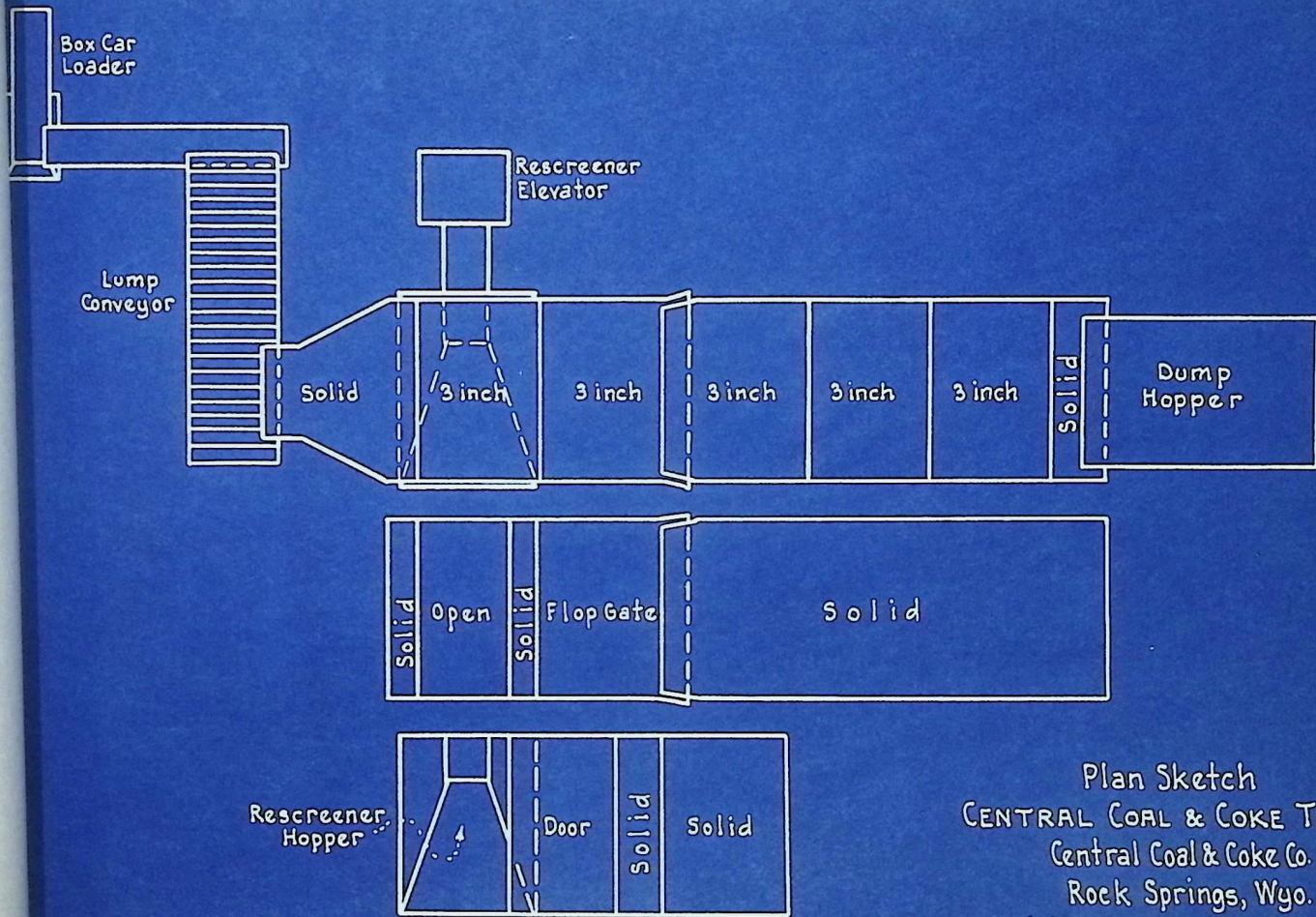
Hanna No. 4 Tipple

The Union Pacific Coal Company

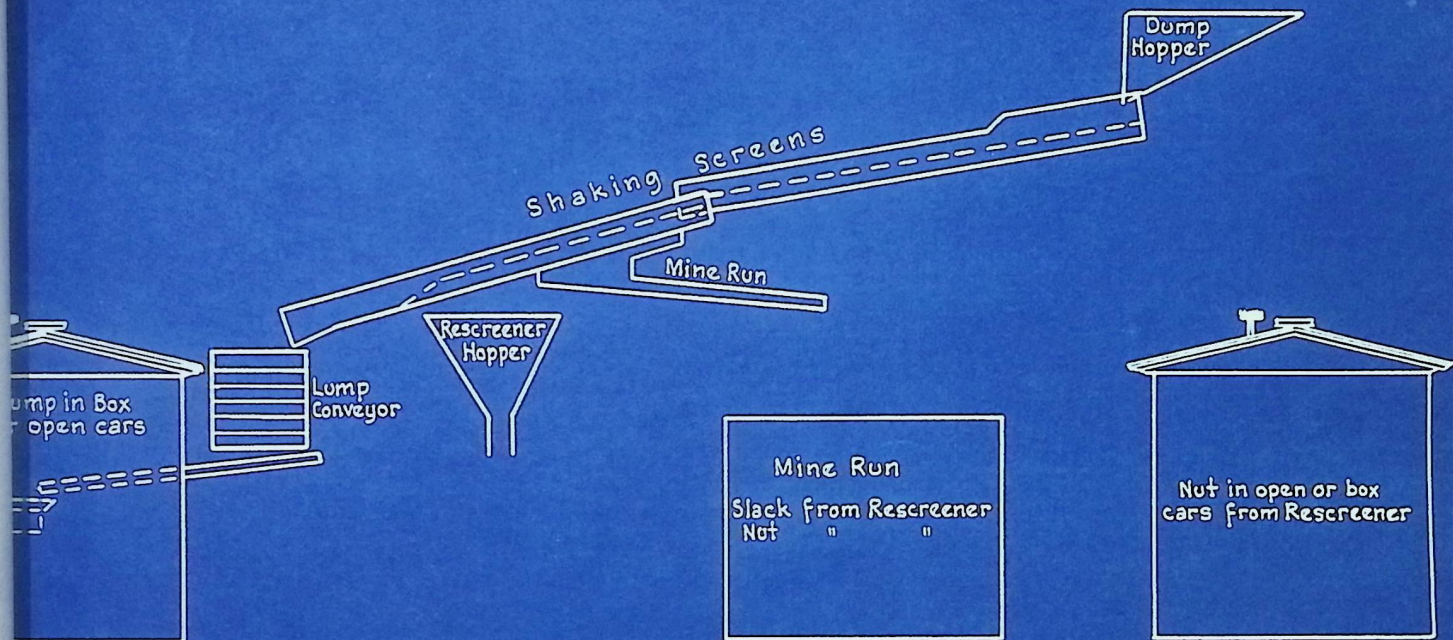
Showing the percentage of the various sizes in the Mine Run Coal

Through 1 5/8"	45.6%
1 5/8" x 6"	36.0%
6" Lump	18.4%
Length of Test	2 days

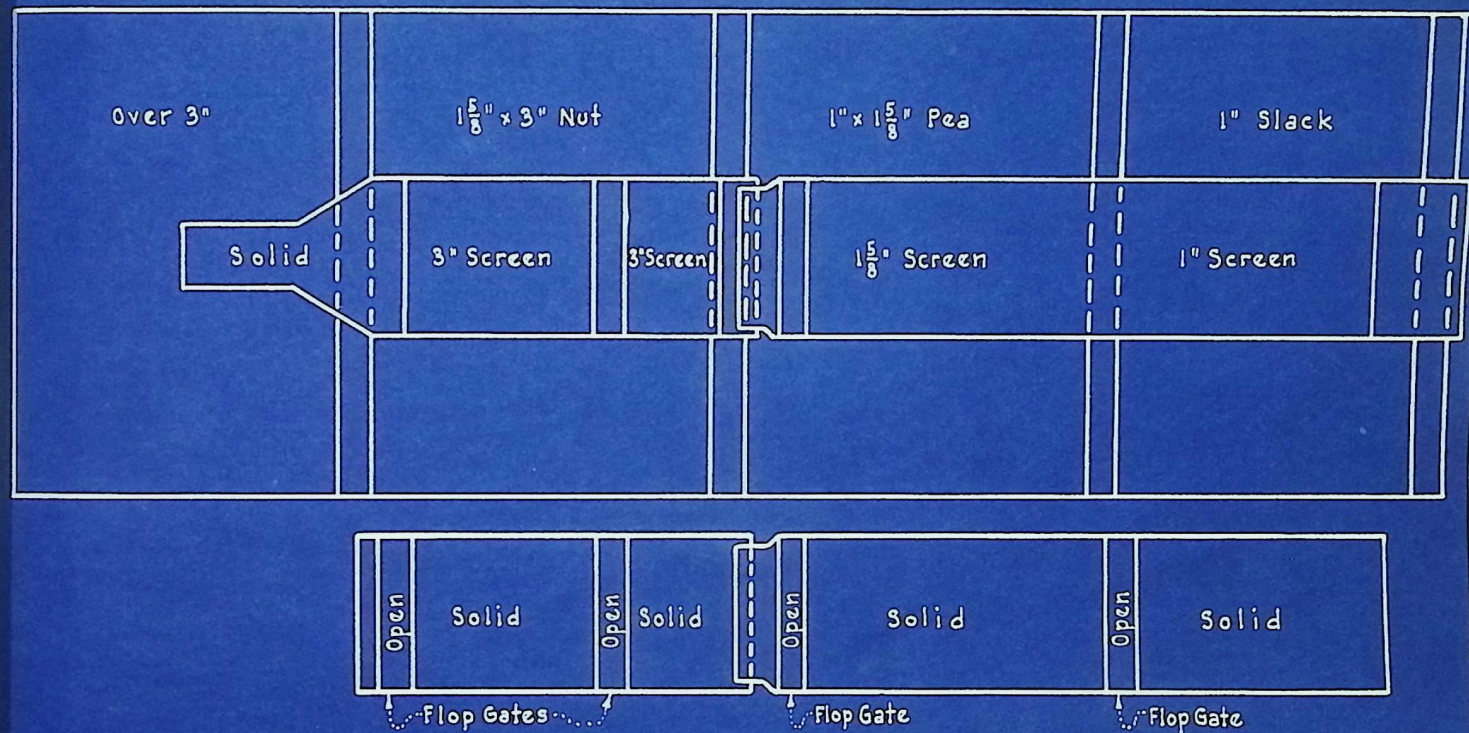
These figures are fairly accurate.



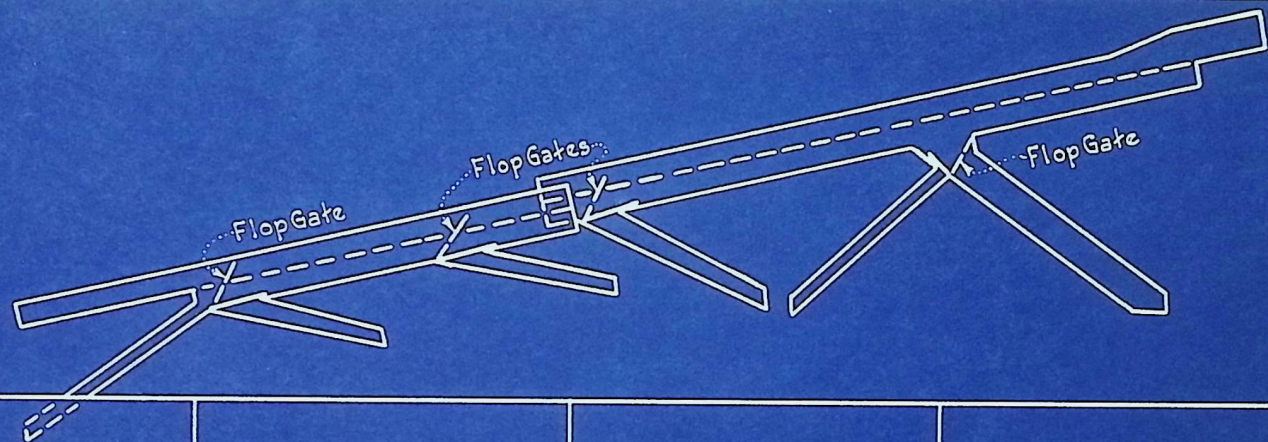
Plan Sketch
 CENTRAL COAL & COKE TIPPLE
 Central Coal & Coke Co.
 Rock Springs, Wyo.
 Not to Scale Mar. 20, 1934.



Profile Sketch
 CENTRAL COAL & COKE TIPPLE
 Central Coal & Coke Co.
 Rock Springs, Wyoming
 Not to Scale Mar. 20, 1934.



Plan Sketch
 CENTRAL COAL & COKE RESCREENER
 Central Coal & Coke Co.
 Rock Springs, Wyo.
 Not to Scale Mar. 20, 1934.

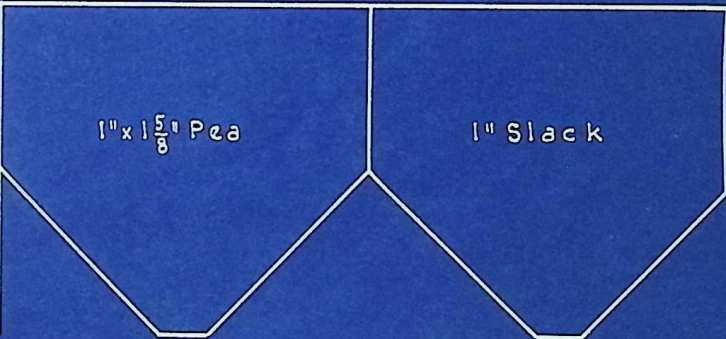
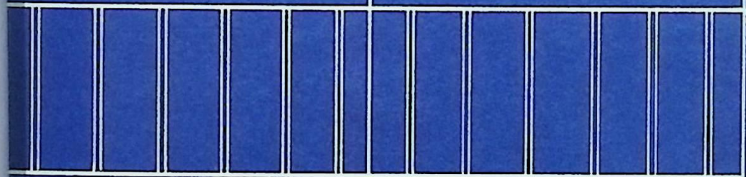


Over 3" Nut

$1\frac{5}{8}" \times 3"$ Nut

$1" \times 1\frac{5}{8}"$ Pea

1" Slack



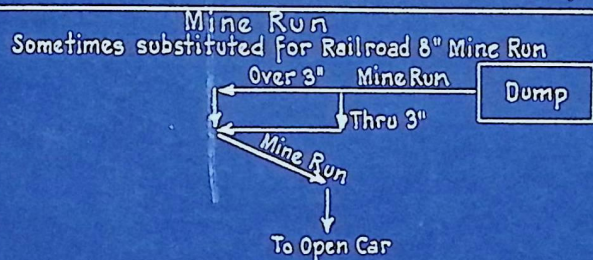
Profile Sketch
CENTRAL COAL & COKE RESCREENER
Central Coal & Coke Co.
Rock Springs, Wyo.
Not to Scale Mar. 20, 1934.

FLOW SHEET

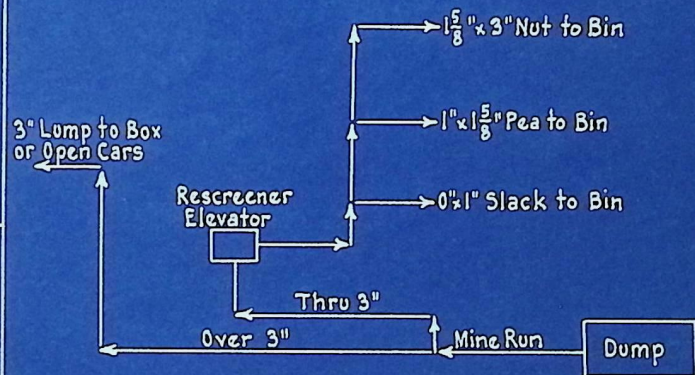
Central Coal & Coke Tipple and Rescreener

Central Coal & Coke Co. - Rock Springs, Wyo.

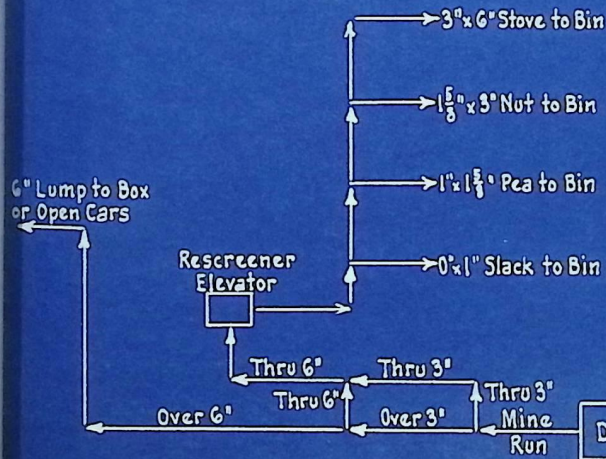
Illustrating Different Sizes of Coal Prepared by Screening Arrangements



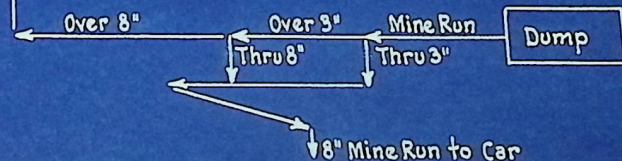
3 Inch Lump "Commercial"
Sometimes Substituted for Railroad 8" Mine Run



6 Inch Lump "Commercial"



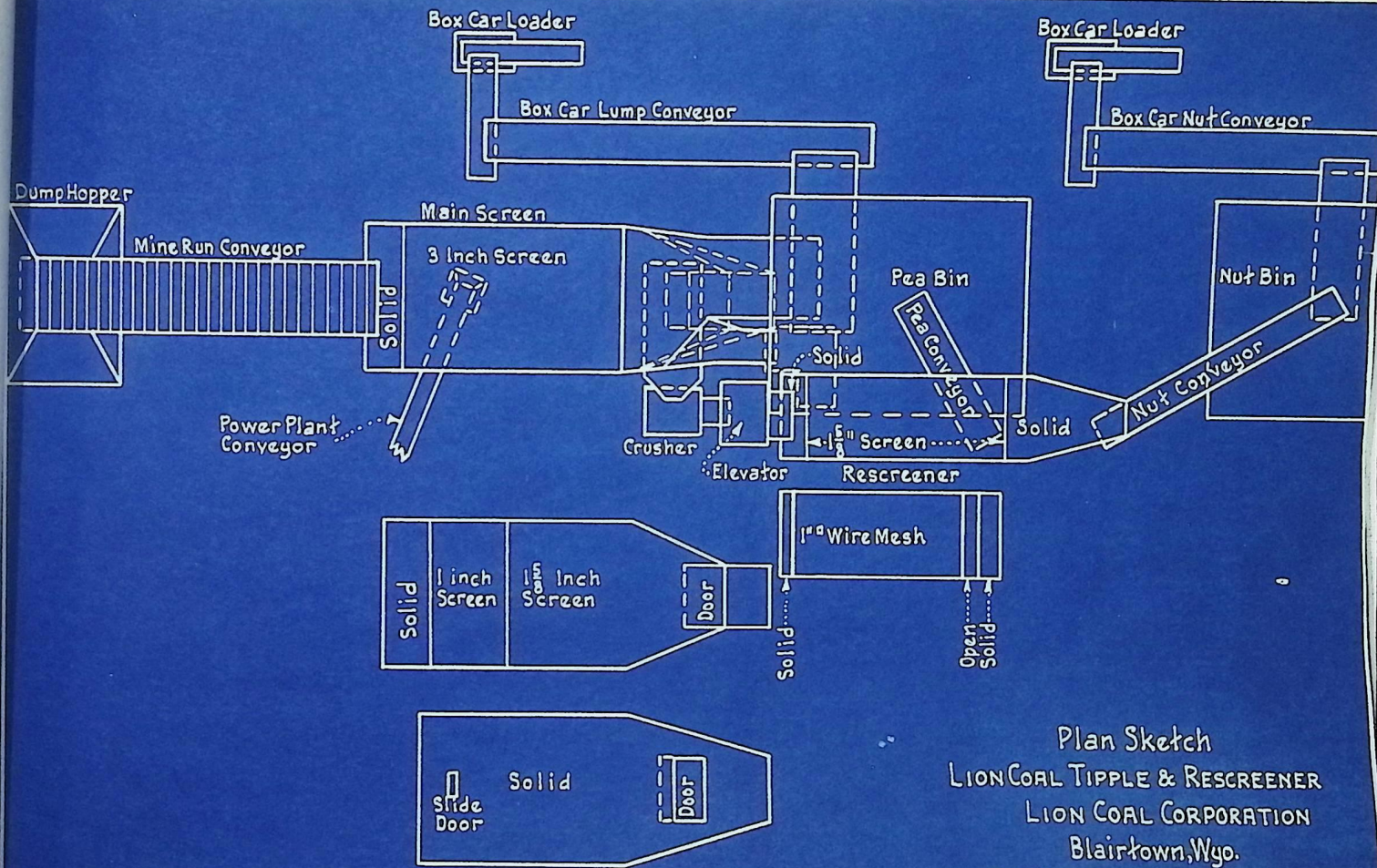
8" Commercial Lump - 8" Railroad Mine Run
8" Lump to Box or Open Cars



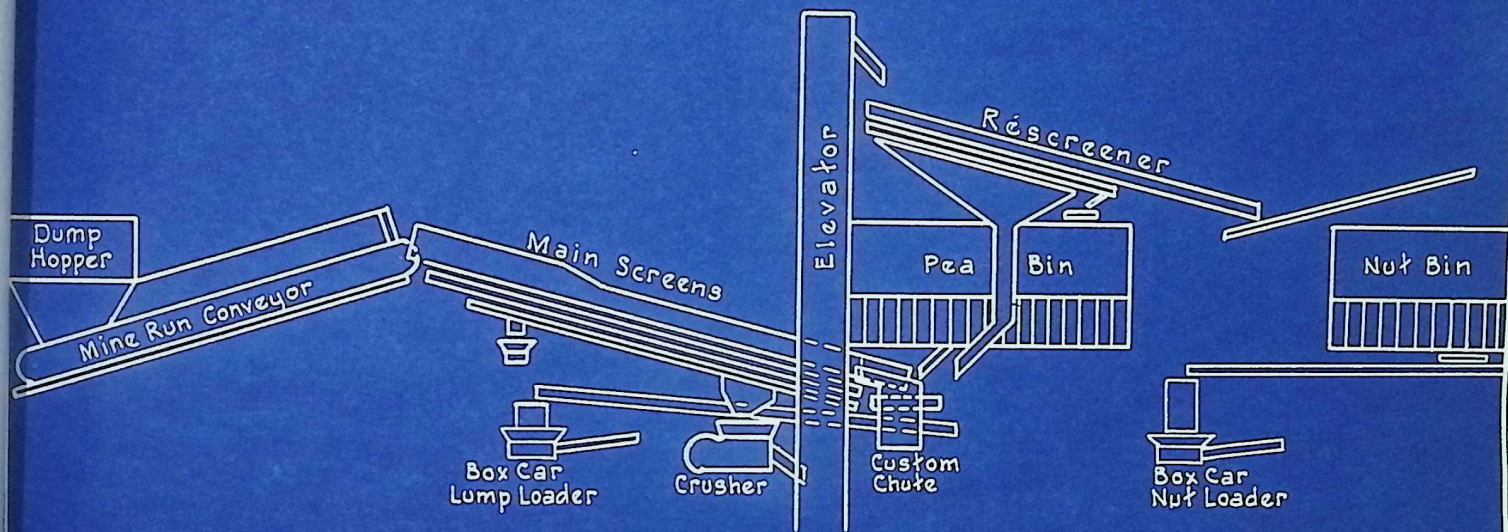
RESULTS OF SCREEN ANALYSIS
Central Coal & Coke Tipple
Central Coal & Coke Company, Rock Springs, Wyoming
Showing the percentage of the various sizes in the Mine Run Coal

Through 1"	36.0%
1" x 1 5/8" Pea	17.0%
1 5/8" Slack	53.0%
1 5/8" x 3"	17.0%
3" x 8"	20.0%
3" Lump	30.0%
8" Lump	10.0%

These figures are the averages of several months' production, and therefore fairly accurate. Everything through an 8" screen is loaded through bins in the rescreener. Therefore the Slack percentage shown may be several per cent higher than the true content of the Mine Run coal due to breakage in the bucket elevator and rescreener.



Plan Sketch
 LION COAL TIPPLE & RESCREENER
 LION COAL CORPORATION
 Blairtown, Wyo.
 Not to Scale June 10, 1934.



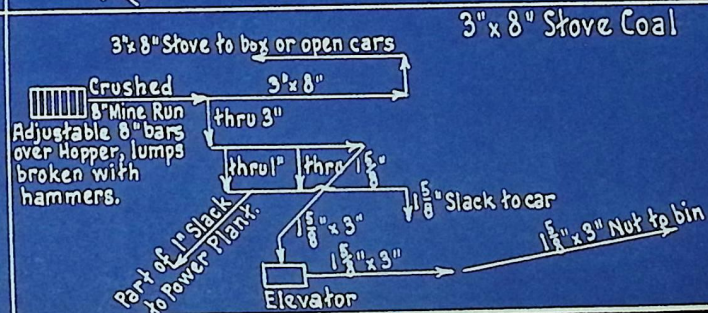
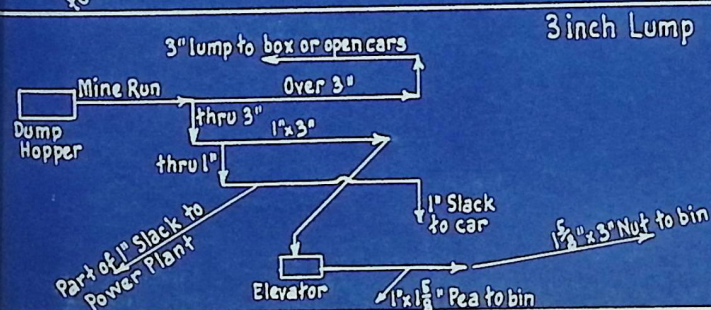
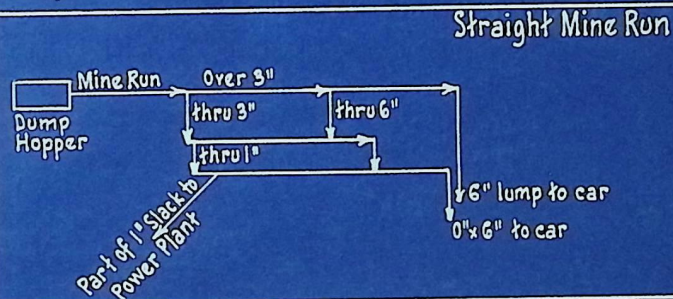
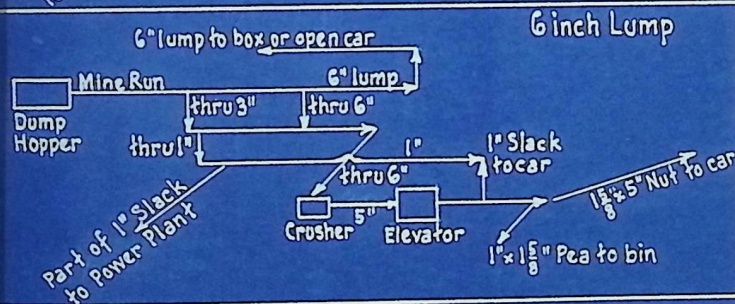
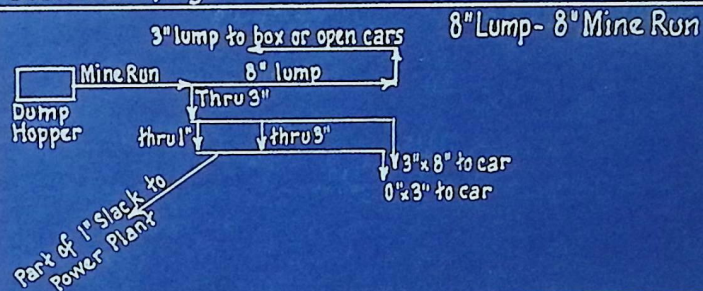
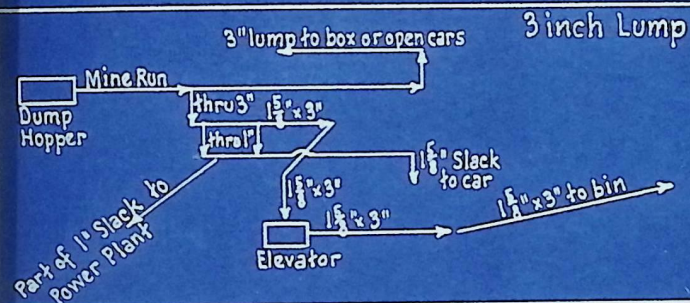
Profile Sketch
 LION COAL TIPPLE & RESCREENER
 LION COAL CORPORATION
 Blairtown, Wyo.
 Not to Scale June 10, 1934.

FLOW SHEET

Showing Product of Various Screening Arrangements

LION COAL TIPPLE & RESCREENER

Lion Coal Corp. - Blairtown, Wyo.



RESULTS OF SCREEN ANALYSIS

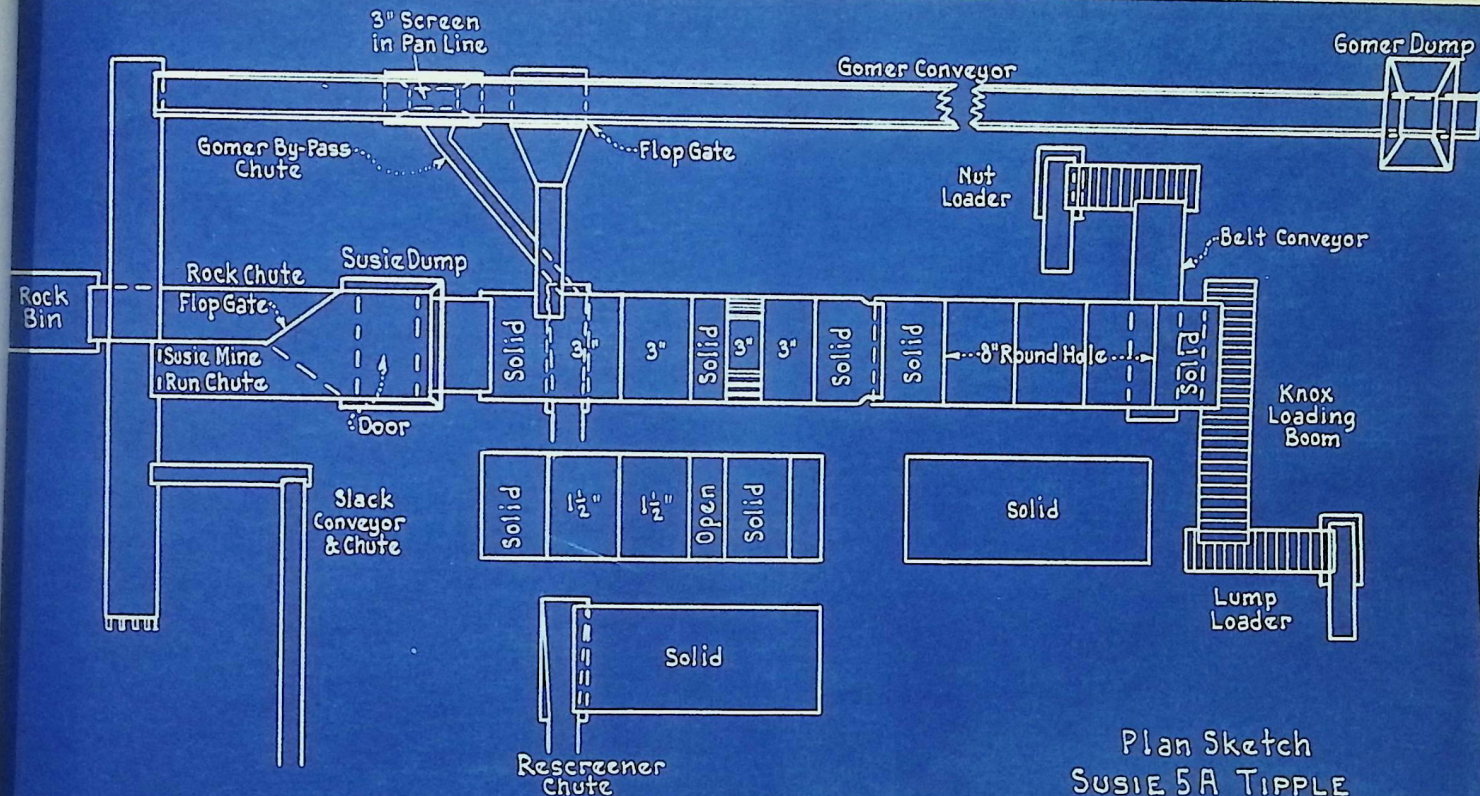
Lion Coal Tipple

Lion Coal Corporation, Blairtown, Wyoming

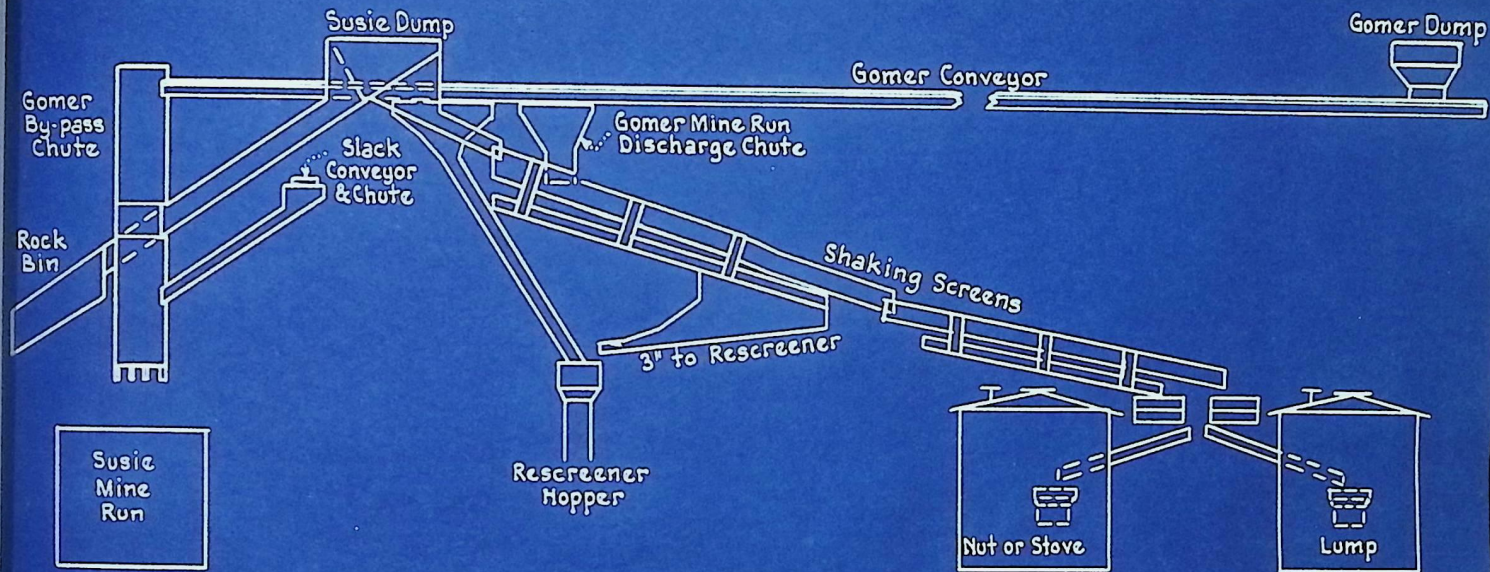
Showing the percentage of the various sizes in the Mine Run Coal

Through 1"	40.4%
1" x 1 5/8"	10.2%
1 5/8" Slack	50.6%
1 5/8" x 3"	15.6%
3" x 8"	22.8%
3" Lump	33.8%
8" Lump	11.0%
Length of Test	1 day

The 1" Slack, Pea and Nut are loaded through rescreener bins. Therefore, the Slack percentages are probably a little higher than the true content of the Mine Run coal due to breakage in handling the coal through the bucket elevator and rescreener.



Plan Sketch
 SUSIE 5A TIPPLE
 Common to Susie & Gomer Mines
 KEMMERER COAL CO.
 Frontier, Wyo.
 Not to Scale May 15, 1934.



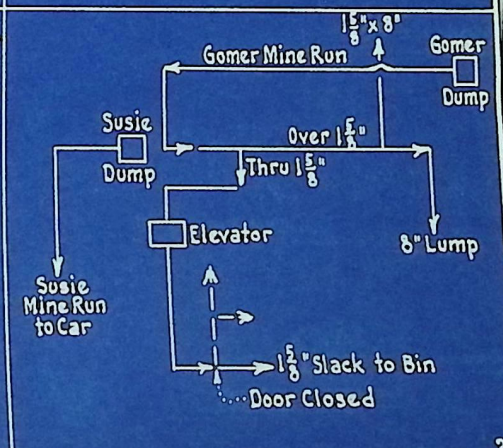
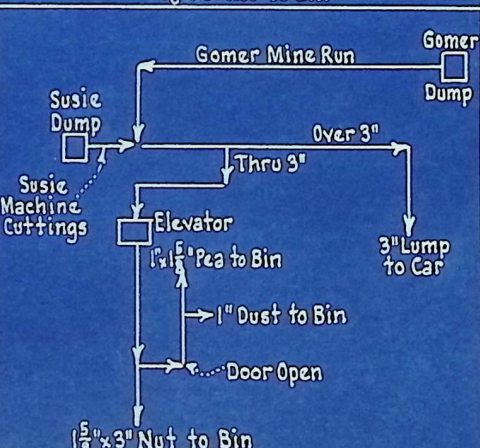
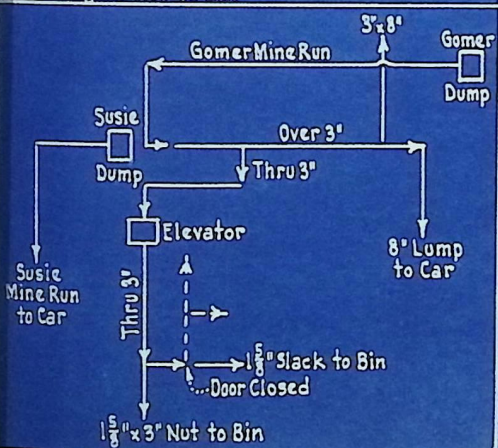
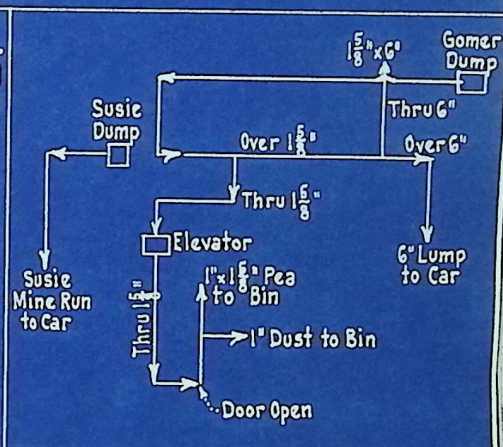
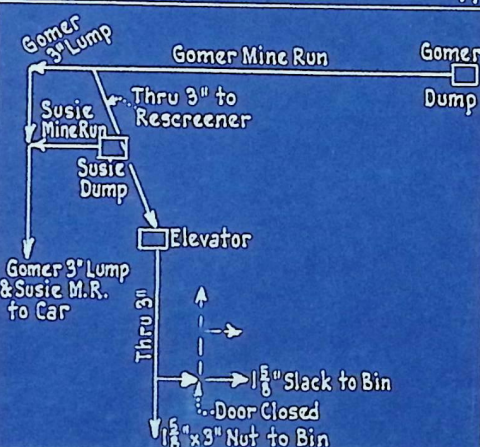
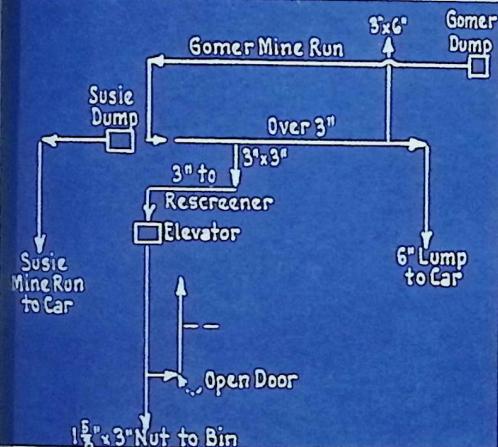
Sketch of Profile
 SUSIE 5A TIPPLE
 Common to Susie & Gomer Mine
 KEMMERER COAL CO.
 Frontier, Wyo.
 Not to Scale May 15, 1934.

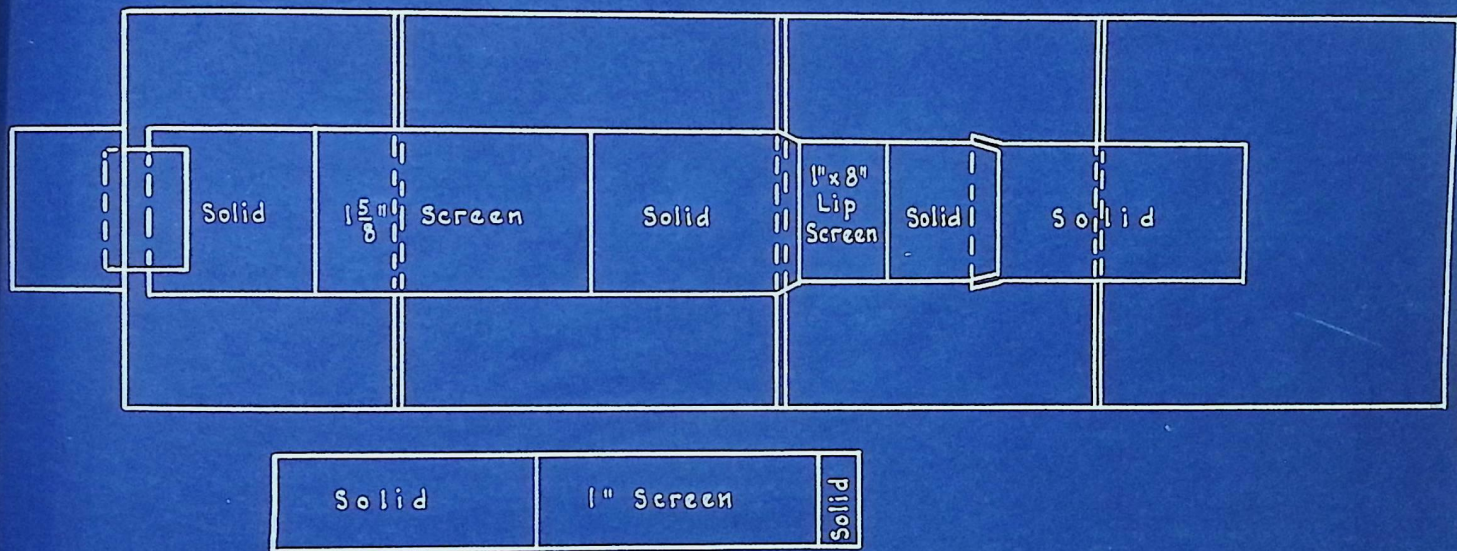
FLOW SHEET

Susie Tipple & Rescreener - Kemmerer Coal Co.

Common to Susie 5A and Gomer Mines

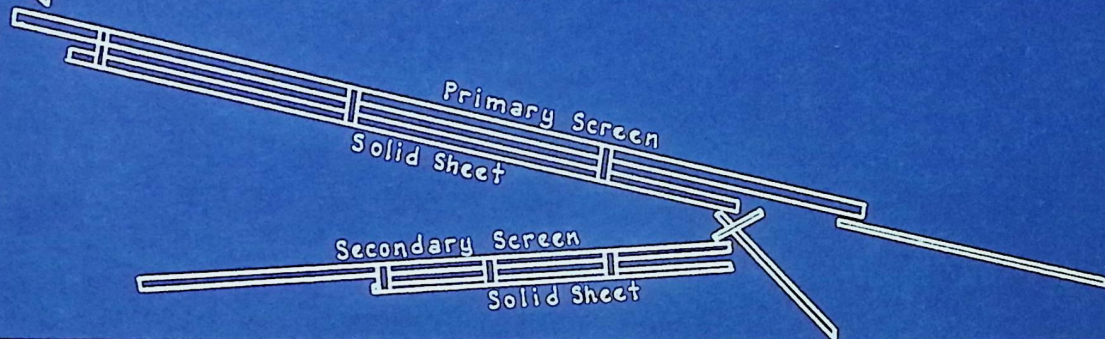
Illustrating Possible Sizes of Coal Prepared at This Tipple





Plan Sketch
 SUSIE 5A RESCREENER
 KEMMERER COAL CO.
 Frontier, Wyo.
 Not to Scale May 15, 1934.

Bucket Elevator



1" x 1 1/2"
Pea Coal

1" Dust

1 5/8" Slack

3" Nut

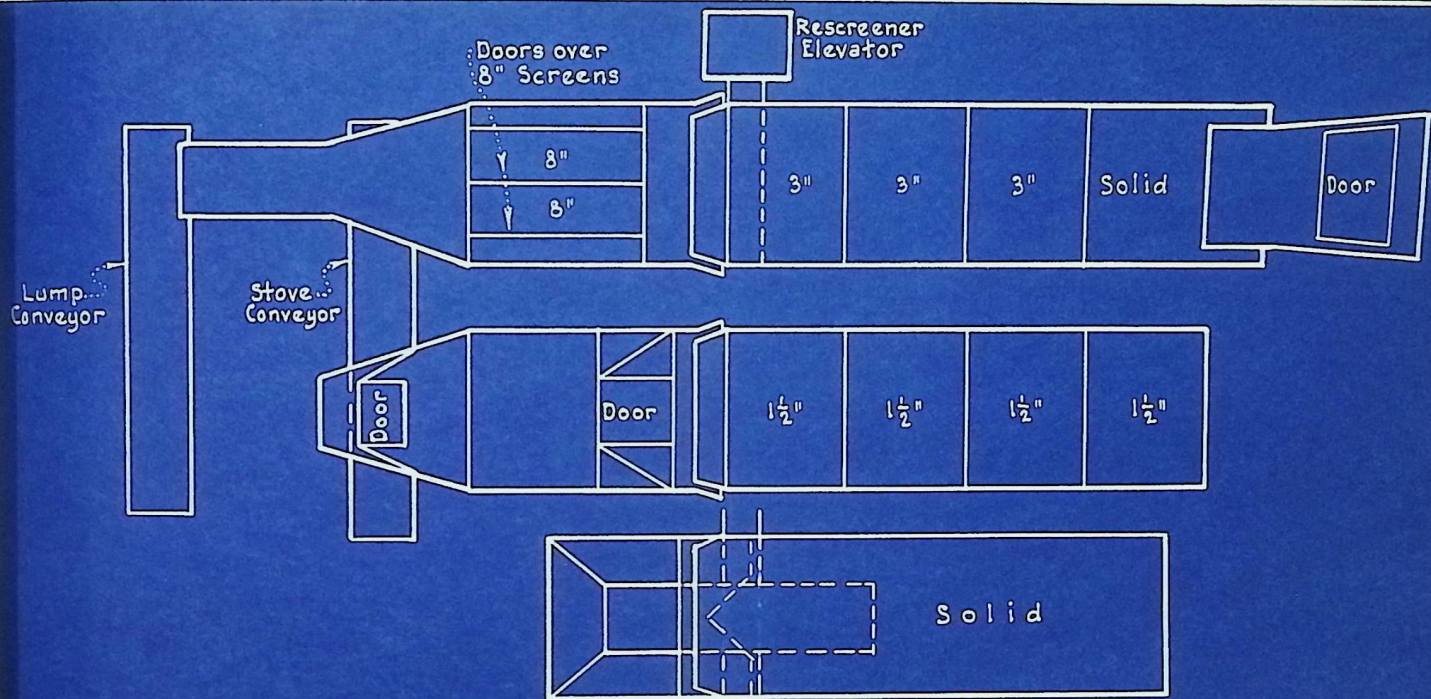
Profile Sketch
SUSIE 5A RESCREENER
KEMMERER COAL CO.
Frontier, Wyo.

Not to Scale May 15, 1934

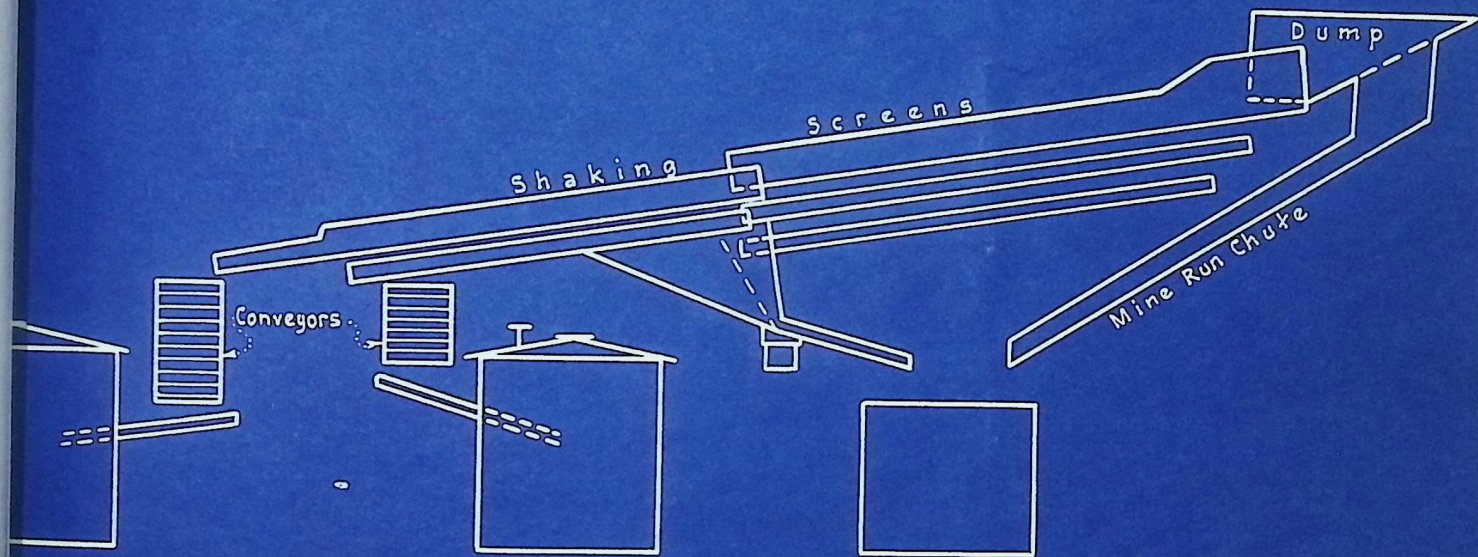
RESULTS OF SCREEN ANALYSIS
Susie 5-A Tipple
Kemmerer Coal Company, Frontier, Wyoming
Showing the Percentages of the Various Sizes in the Mine Run Coal

Through 1"	24.0%
1" x 1 5/8" Pea	16.0%
1 5/8" Slack	40.0%
1 5/8" x 3" Nut	16.0%
3" x 8" Stove	20.0%
3" Lump	40.0%
8" Lump	20.0%

These figures are the result of Superintendent Reese's estimate. Practically all the coal loaded from the Susie Mine is straight Mine Run and it is impossible to run a screen test under normal conditions. Some time ago a screen test of one day's run gave a figure of 44% for 1 1/2" Slack. However, Superintendent Reese is now of the impression that the 1 5/8" Slack is not above this figure.

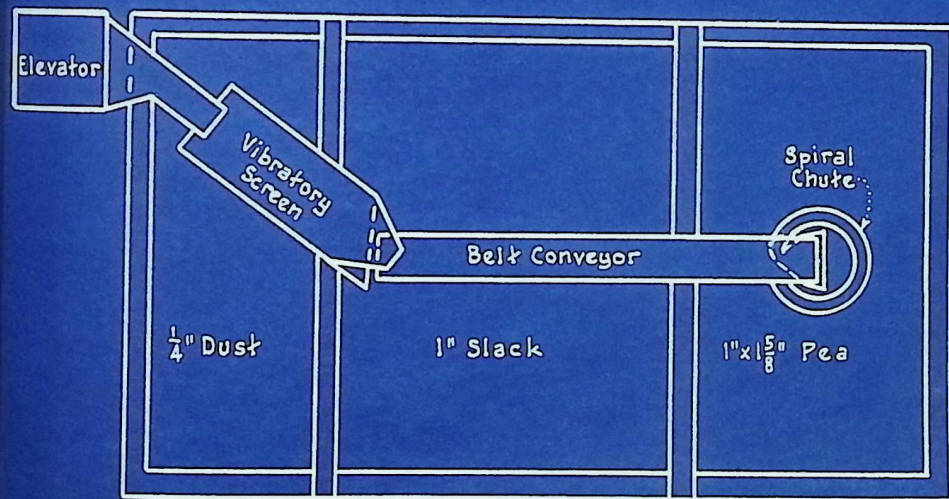
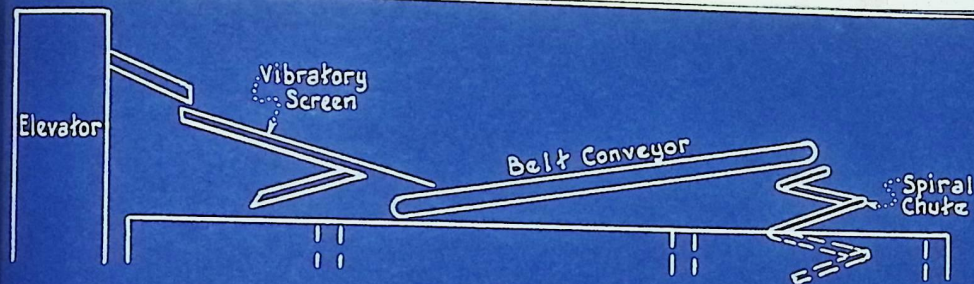


Plan Sketch
 BLAZON TIPPLE
 BLAZON COAL CO.
 Blazon, Wyo.
 Not to Scale 8-20-1934.



Profile Sketch
BLAZON TIPPLE
BLAZON COAL CO.
Blazon, Wyo.

Not to Scale 8-20-1934

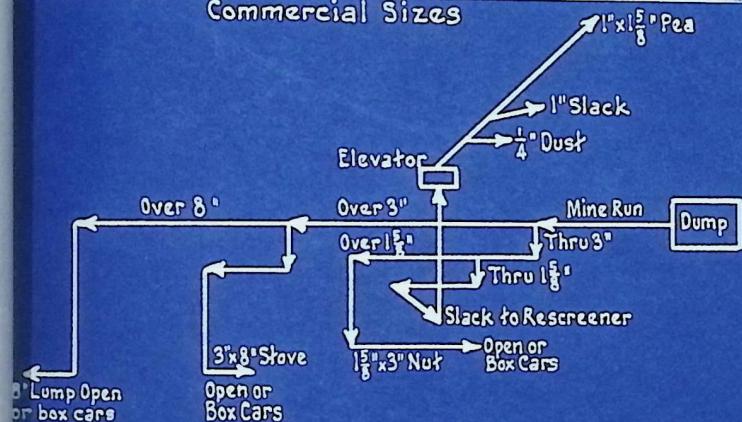


Plan & Profile Sketch
BLAZON RESCREENER
BLAZON COAL CO.
Blazon, Wyo.

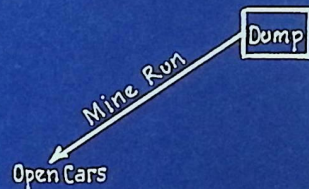
Not to Scale 8-20-1934.

FLOW SHEET Blazon Tipple and Rescreener Blazon Coal Co. - Blazon, Wyo. Illustrating Possible Sizes of Coal Prepared

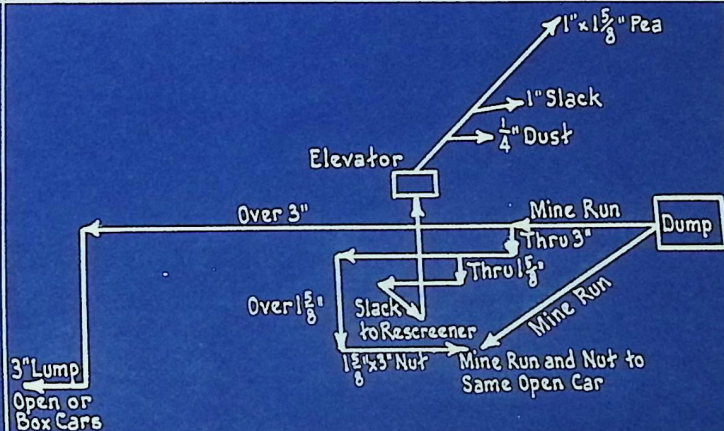
Commercial Sizes



Straight Mine Run



Modified Mine Run



RESULTS OF SCREEN ANALYSIS

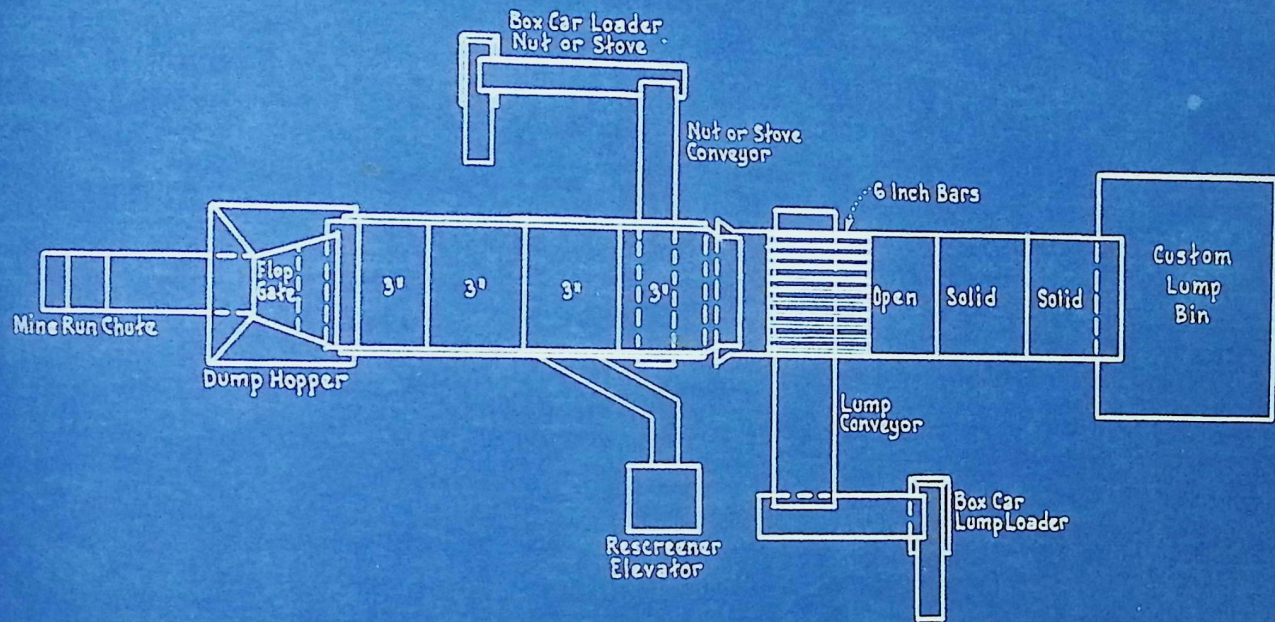
Blazon Tipple

Blazon Coal Company, Blazon, Wyoming

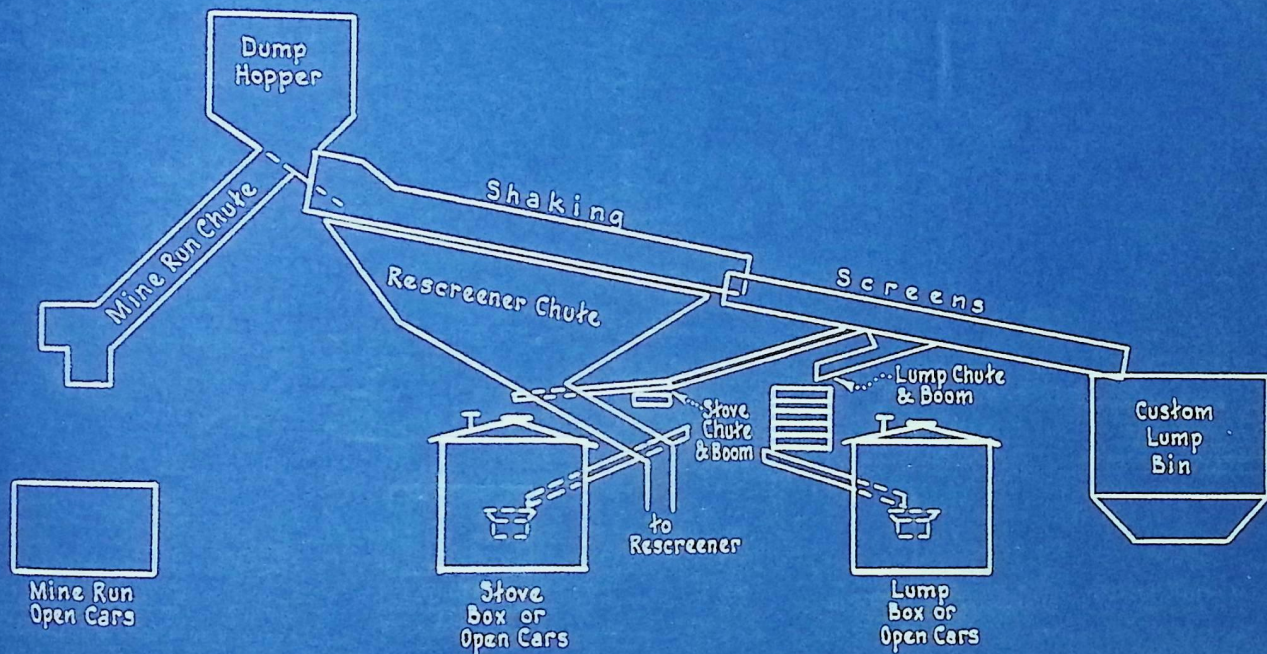
Showing the Percentages of the Various Sizes in the Mine Run Coal

1/4" dust	10.0%
Through 1"	30.0%
1" x 1 5/8" Pea	10.0%
1 5/8" Slack	40.0%
1 5/8" x 3" Nut	15.0%
3" x 8" Stove	23.0%
8" Lump	22.0%

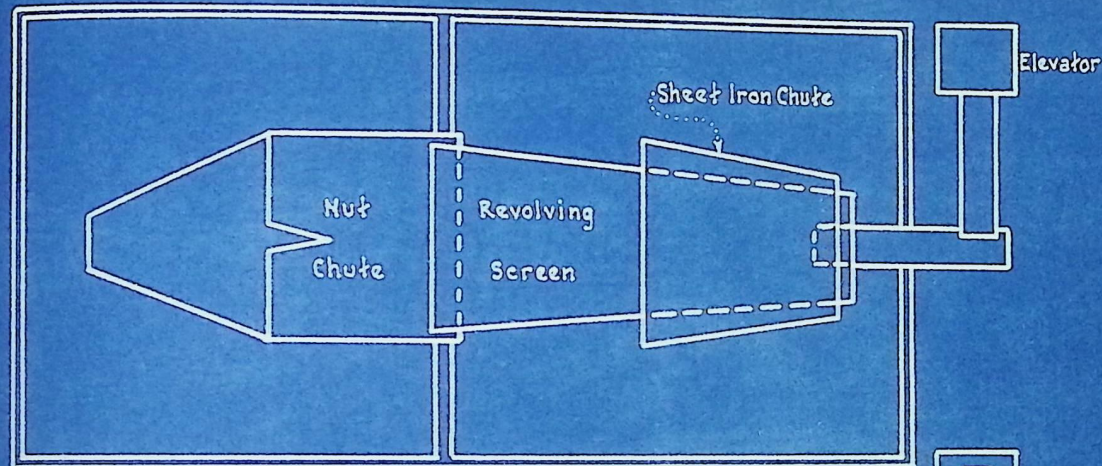
These figures are the result of Superintendent Harvey's estimate. All the dust, pea and slack is loaded through a rescreener, making a thorough screen test difficult.



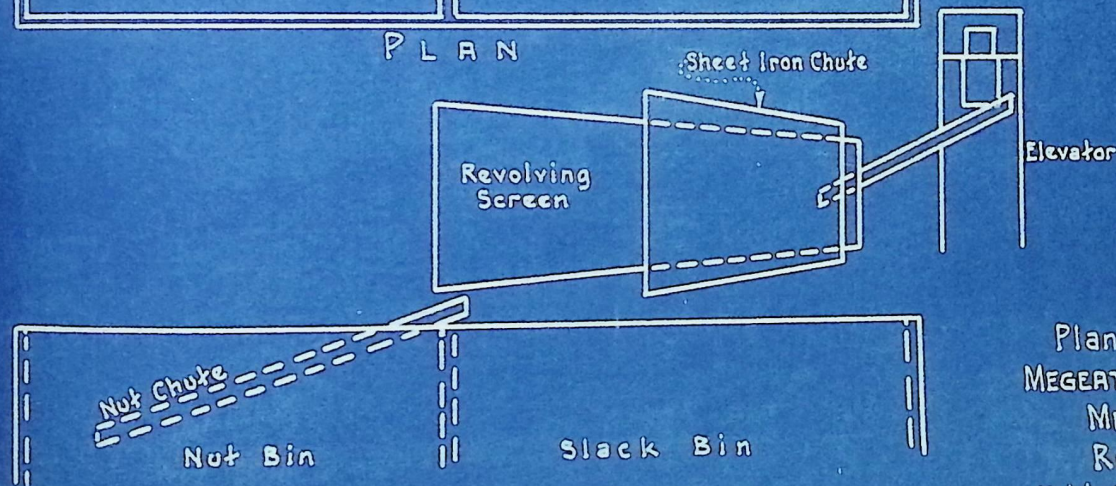
Plan Sketch
 MEGARTH No. 7 TIPPLE
 MEGARTH COAL CO.
 Rock Springs, Wyo.
 Not to Scale Aug. 25, 1934.



Profile Sketch
 MEGEATH No. 7 TIPPLE
 MEGEATH COAL Co.
 Rock Springs, Wyoming
 Not to Scale Aug. 25, '34.



P L A N

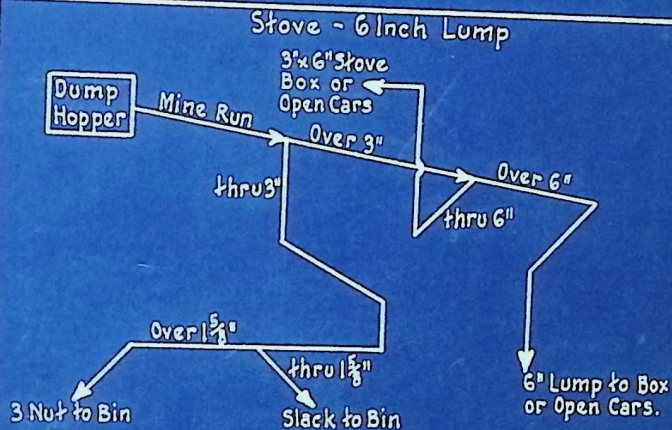


P R O F I L E

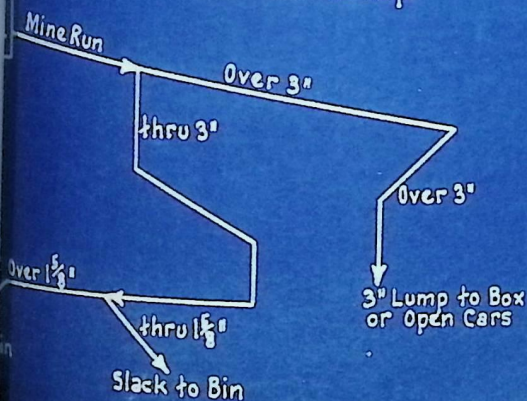
Plan & Profile Sketch
MEGEATH No. 7 RESCREENER
MEGEATH COAL CO.
Rock Springs, Wyo.
Not to Scale Aug. 25, 1934.

FLOW SHEET Megeath Tipple and Rescreener Plant Megeath Coal Co. Rock Springs, Wyo. Illustrating Possible Sizes of Coal Ordinarily Prepared.

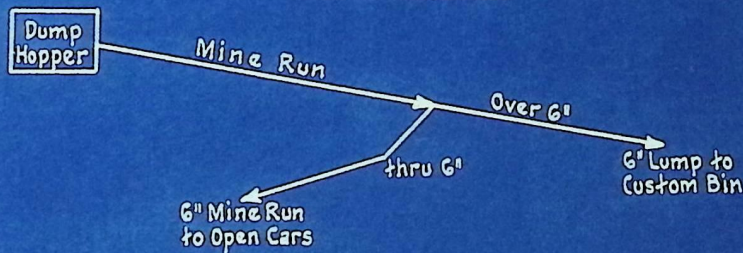
Straight Mine Run



3 Inch Lump



6 Inch Mine Run



RESULTS OF SCREEN ANALYSIS

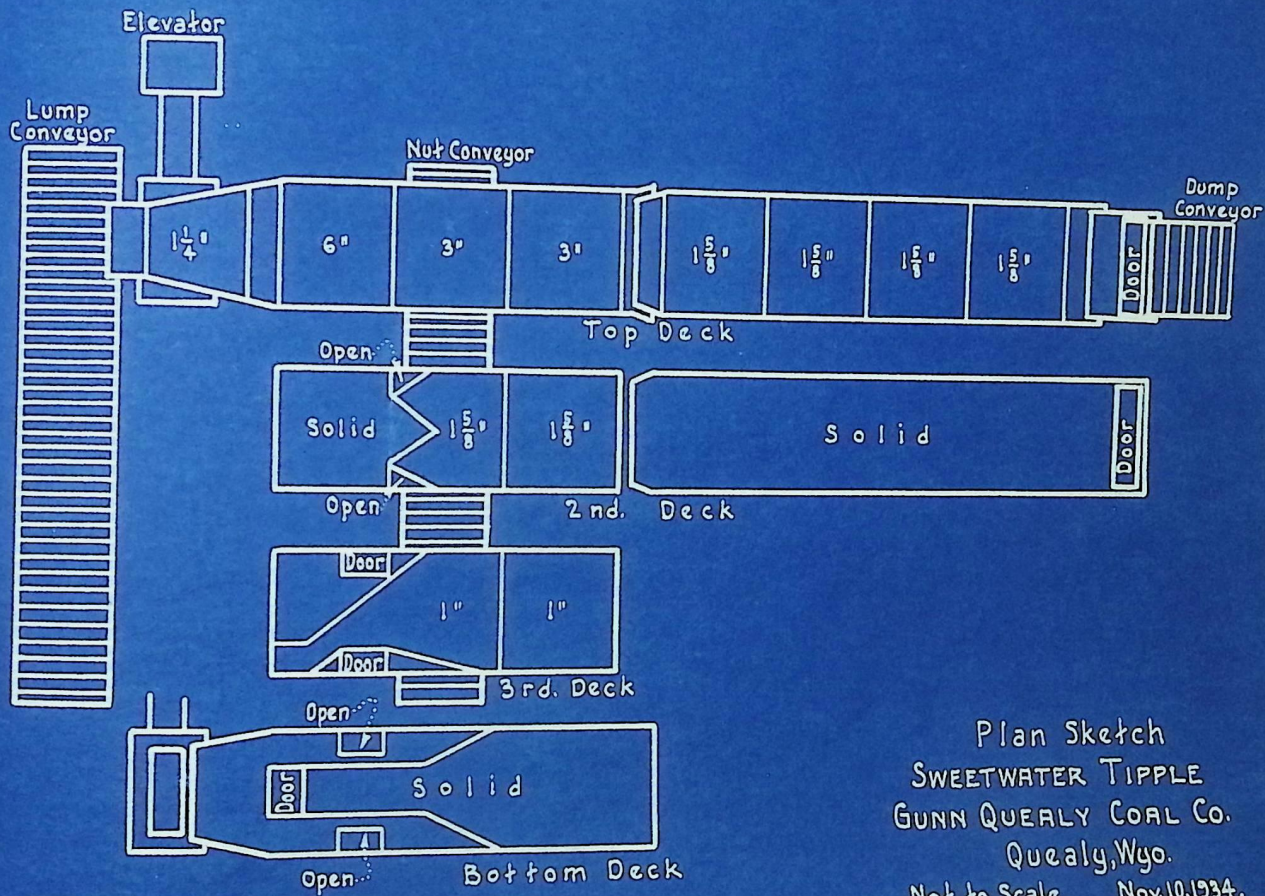
Megeath Tipple

Megeath Coal Company, Rock Springs, Wyoming

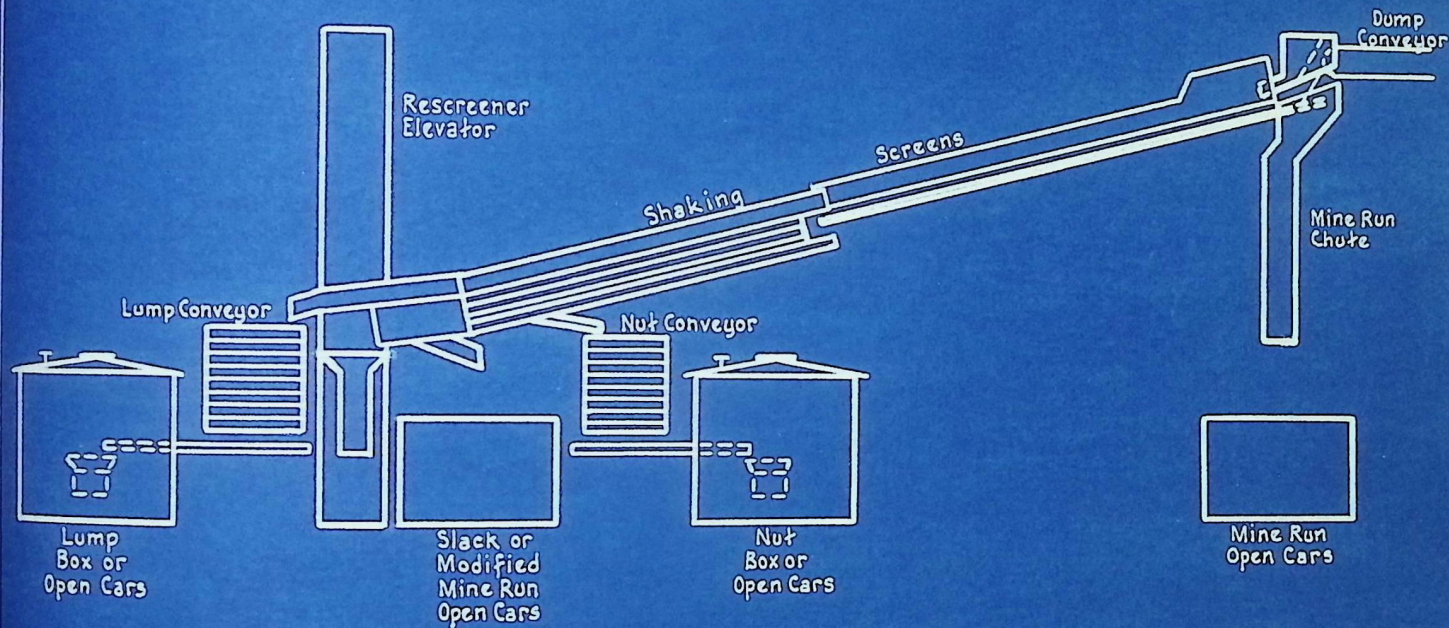
Showing the percentage of the various sizes in the Mine Run Coal

Through 1 5/8"	42.0%
1 5/8" x 3"	18.0%
3" x 3"	25.0%
3" Lump	40.0%
8" Lump	15.0%

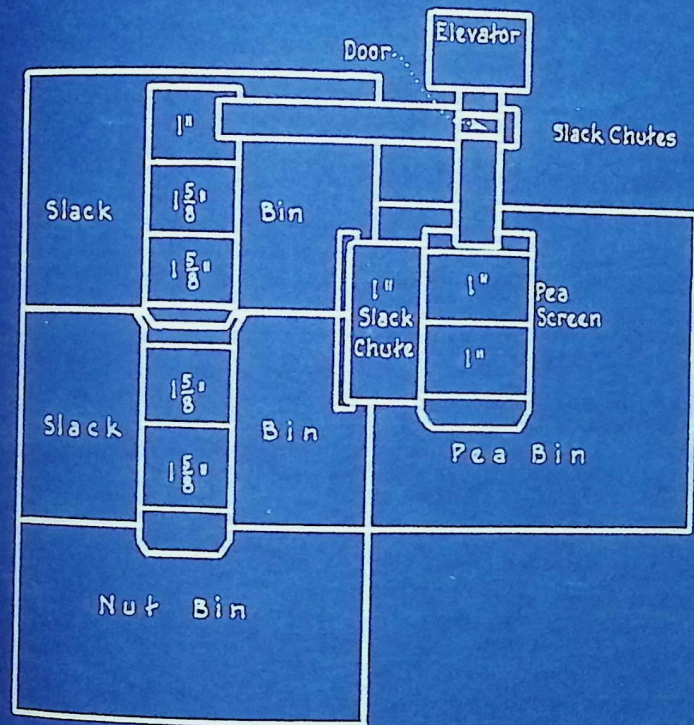
These figures are the result of Superintendent Redshaw's estimate. I believe they are somewhat in error, and that the 1 5/8" Slack is nearer 50% than 40%. Due to the fact that everything through a 3" screen is loaded through bins in the rescreener, an accurate screen test on these sizes is almost impossible unless it is run over an extended period of time.



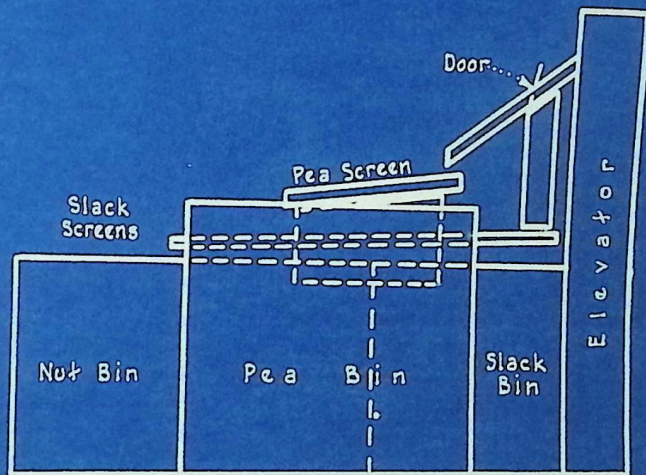
Plan Sketch
 SWEETWATER TIPPLE
 GUNN QUEALY COAL CO.
 Quealy, Wyo.
 Not to Scale Nov. 10, 1934.



Profile Sketch
 SWEETWATER TIPPLE
 GUNN QUEALY COAL COMPANY
 Quealy, Wyo.
 Not to Scale Nov. 10, 1934.



PLAN



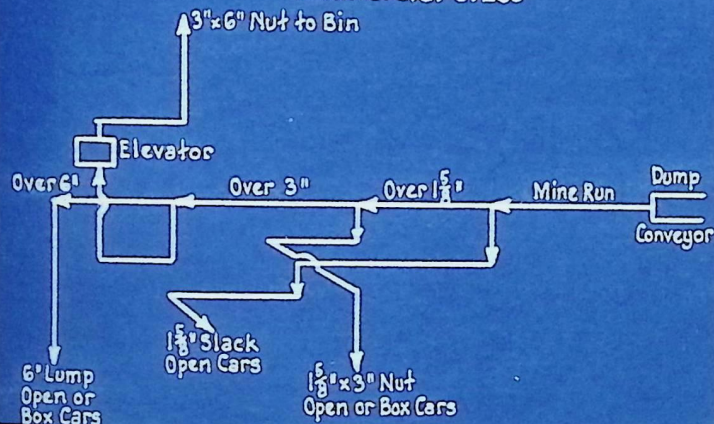
PROFILE

Plan & Profile
SWEETWATER RESCREENER
GUNN QUEALY COAL CO.

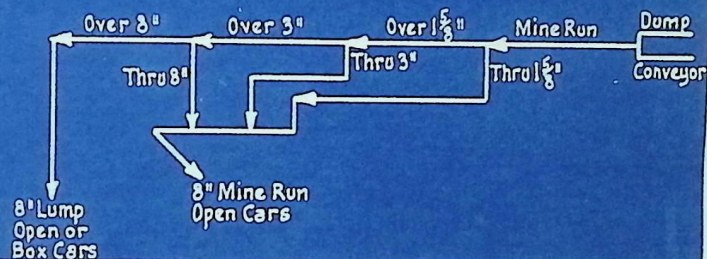
Quealy, Wyo.
Not to Scale Nov. 10, 1934.

FLOW SHEET
Sweetwater Tipple & Rescreener
Gunn Quealy Coal Co.
Quealy, Wyo.

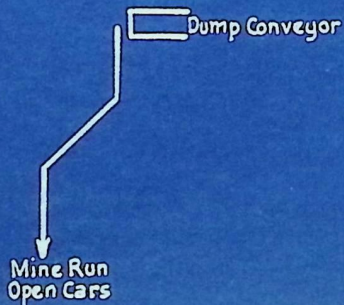
Commercial Sizes



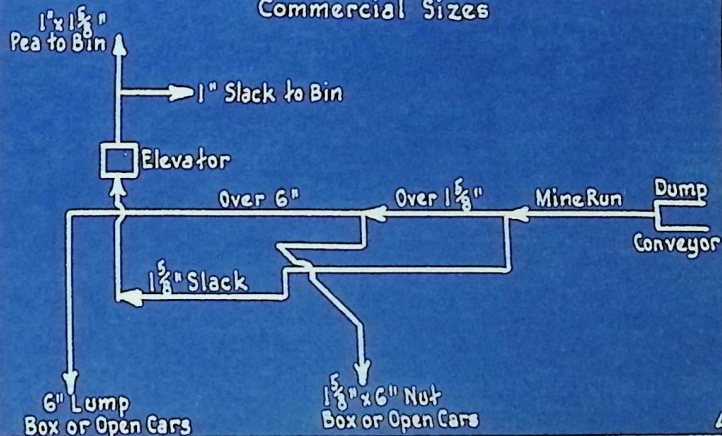
8 inch Mine Run



Mine Run



Commercial Sizes



RESULTS OF SCREEN ANALYSIS

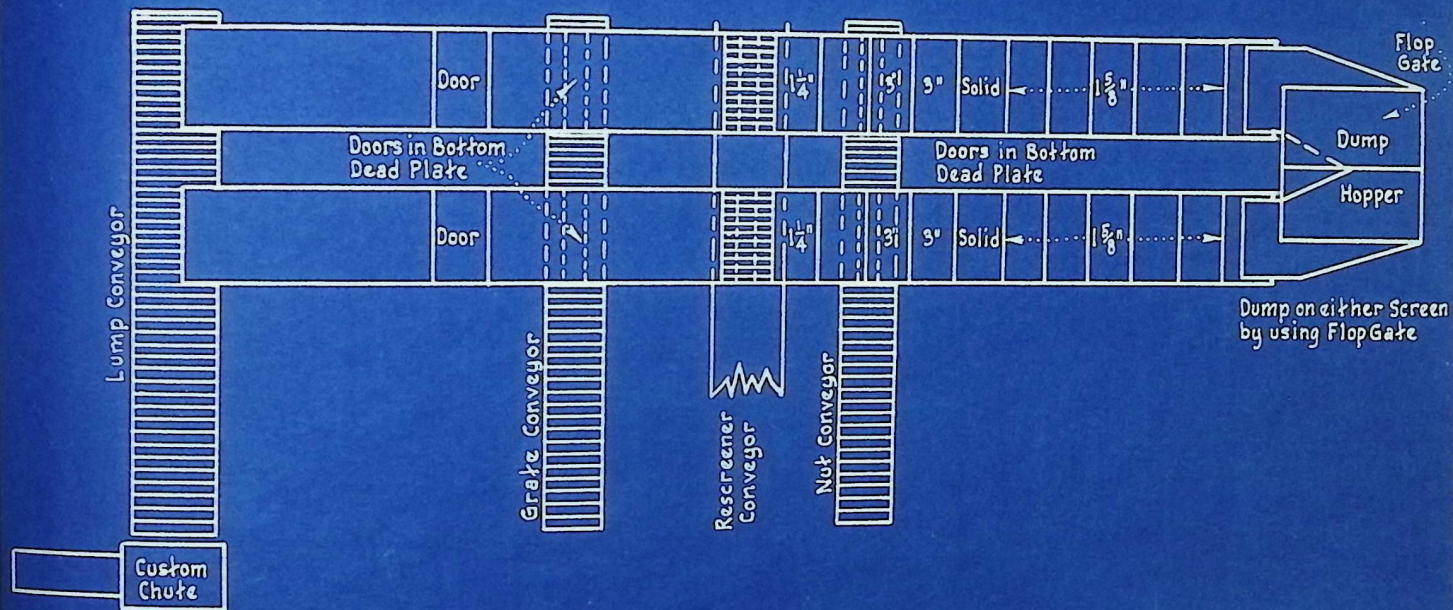
Sweetwater Tipple

Gunn-Quealy Coal Company

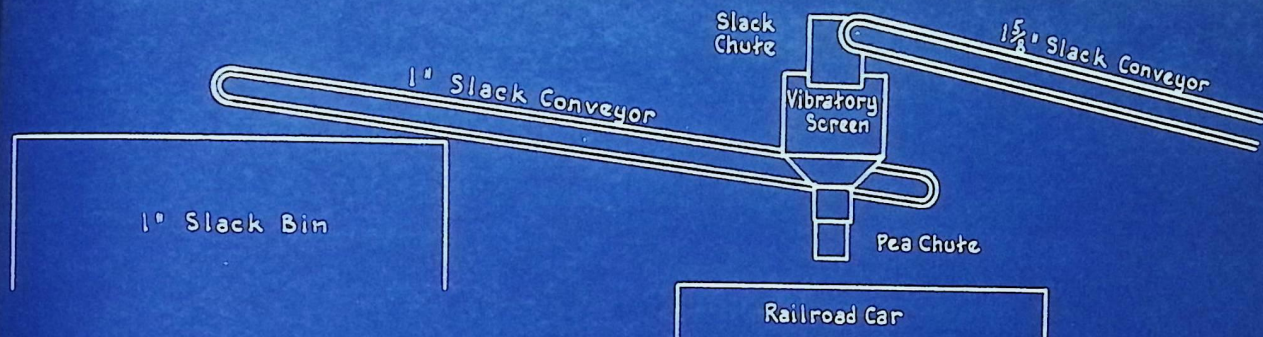
Showing the percentage of the various sizes in the Mine Run Coal

Through 1"	43.8%
1" x 1 5/8" Pea	10.0%
Through 1 5/8"	53.8%
1 5/8" x 3"	16.2%
3" x 8"	19.0%
3" Lump	30.0%
8" Lump	11.0%
Length of Test	2 days

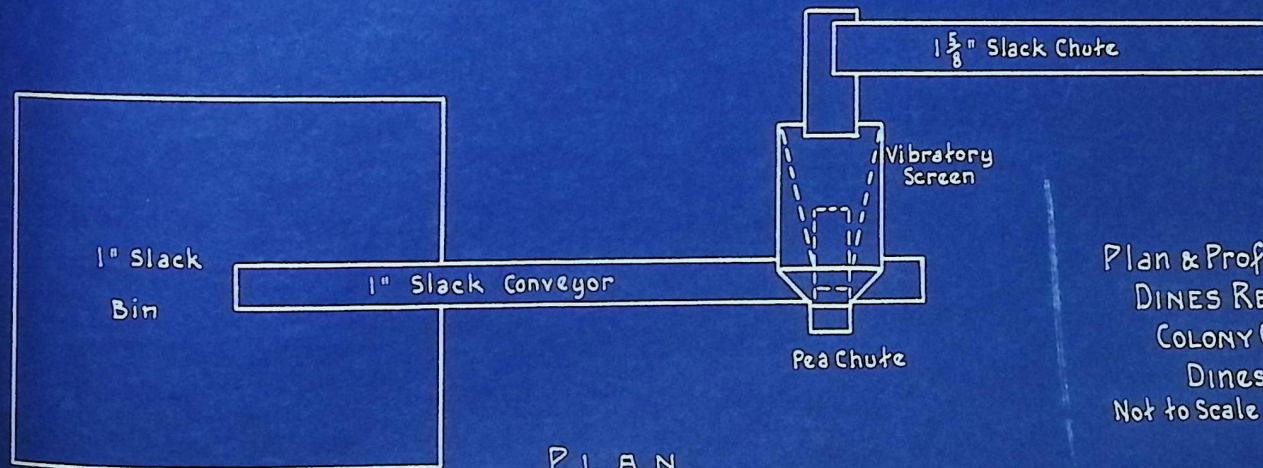
These results should be fairly accurate.



Plan Sketch
 DINES TIPPLE
 COLONY COAL CO.
 Dines, Wyo.
 Not to Scale 4-16-1934.



PROFILE

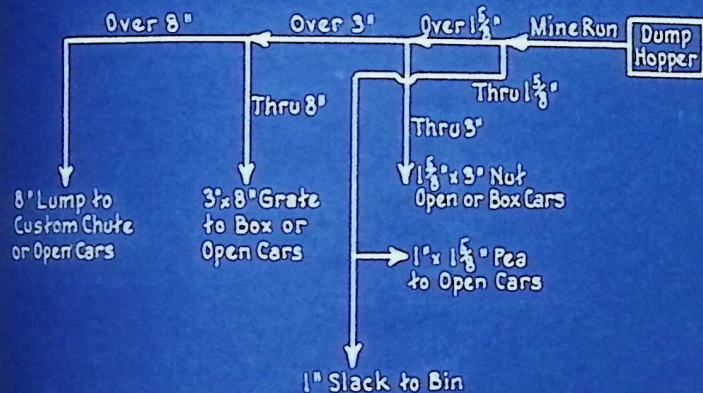


PLAN

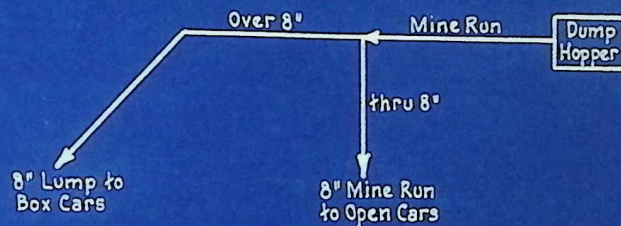
Plan & Profile Sketch
 DINES RESCREENER
 COLONY COAL CO.
 Dines, Wyo.
 Not to Scale 4-16-1934

FLOW SHEET
Dines Tipple and Rescreener
Colony Coal Co. - Dines, Wyo.
Illustrating Various Sizes of Coal Prepared

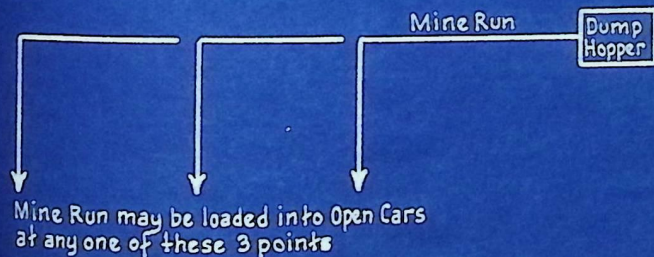
Commercial Sizes



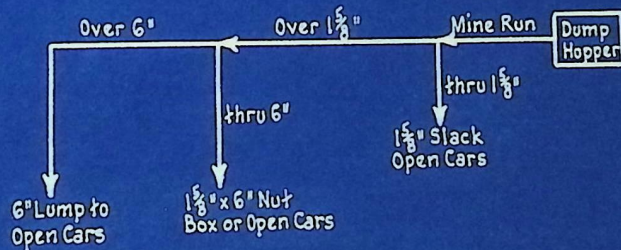
8 Inch Mine Run



Mine Run



Commercial Sizes



RESULTS OF SCREEN ANALYSIS

Dines Tipple

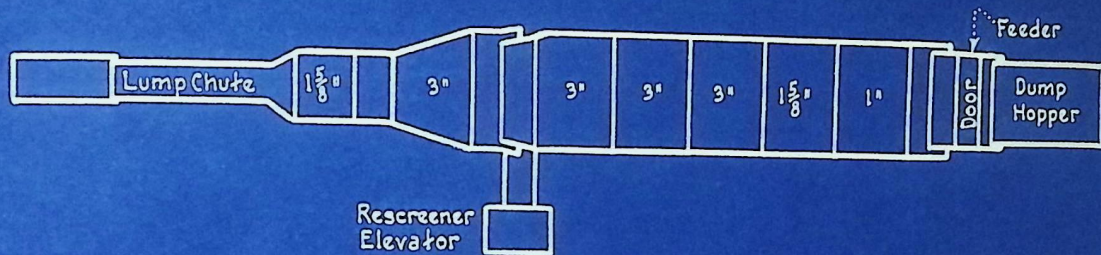
The Colony Coal Company

Showing the percentage of the various sizes in the Mine Run Coal

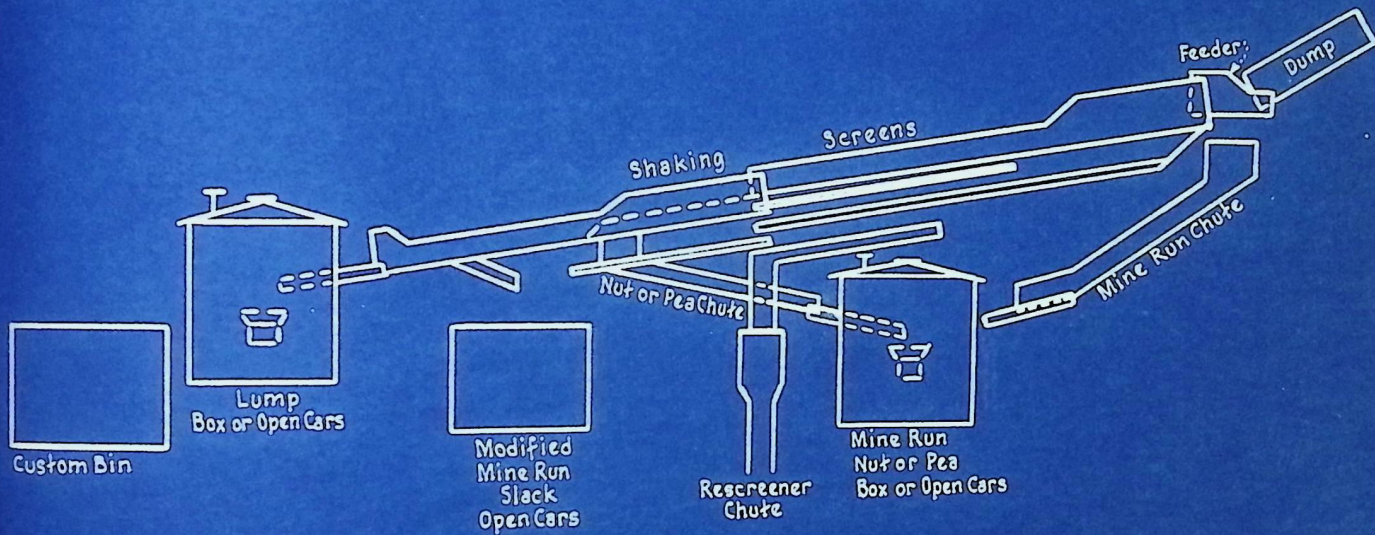
Through 1"	26.1%
1" x 1 5/8" Pea	13.3%
1 5/8" Slack	39.4%
1 5/8" x 3"	15.0%
3" x 8"	25.0%
3" Lump	45.0%
8" Lump	20.0%

The Slack figures are the average of three different slack tests run on different days. The other percentages are the average of the past several months' production as taken from records in the Mine Office.

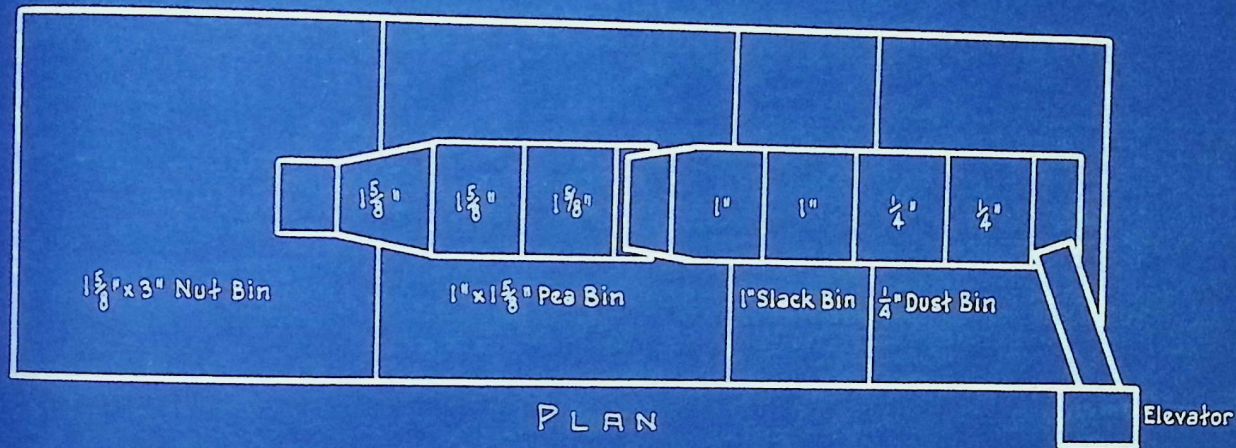
Custom
Bin



Plan Sketch
ROCK SPRINGS FUEL CO. TIPPLE
Superior, Wyo.
Not to Scale 11-20-1934.



Profile Sketch
 ROCK SPRINGS FUEL TIPPLE
 ROCK SPRINGS FUEL CO.
 Superior, Wyo.
 Not to Scale 11-20-1934.



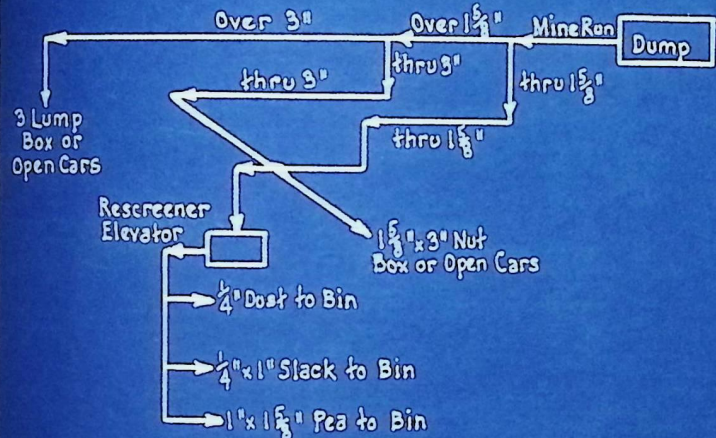
Plan & Profile Sketch
 ROCK SPRINGS FUEL CO. RESCREENER
 Superior, Wyo.
 Not to Scale 11-20-1934

FLOW SHEET

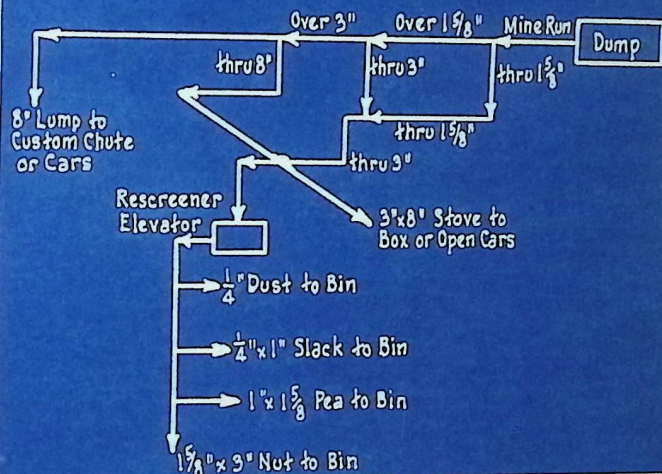
Rock Springs Fuel Co. Tipple and Rescreener
Superior, Wyo.

Illustrating Various Sizes of Coal Prepared at this Plant

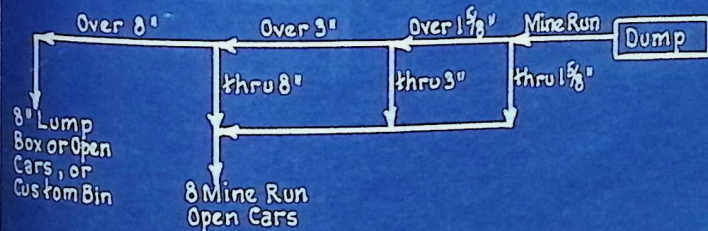
Commercial Sizes



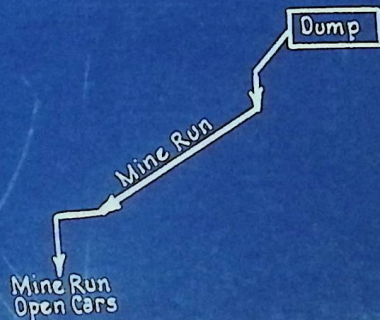
Commercial Sizes



8 Inch Mine Run



Straight Mine Run



RESULTS OF SCREEN ANALYSIS

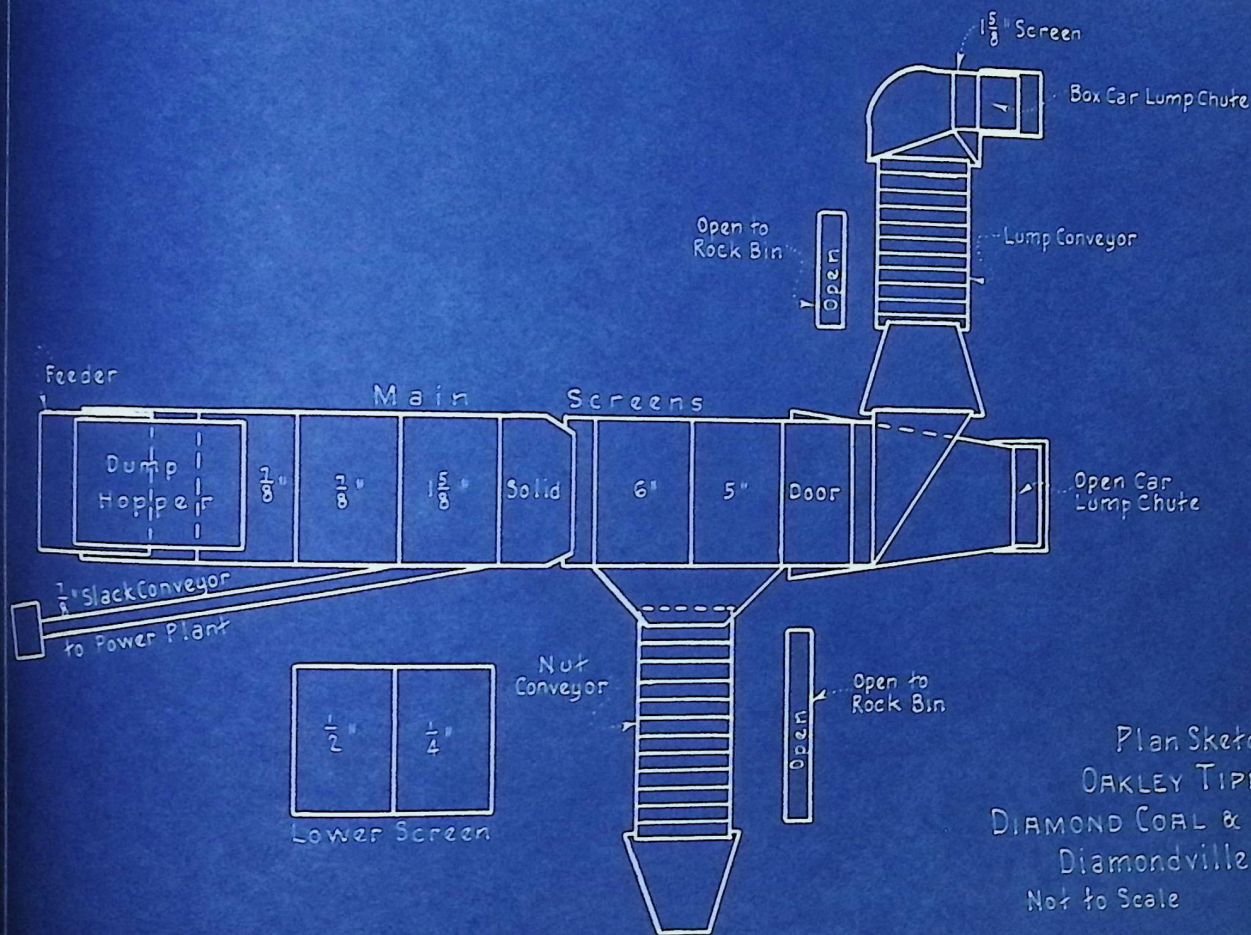
Rock Springs Fuel Company Superior Tipple

Rock Springs Fuel Company

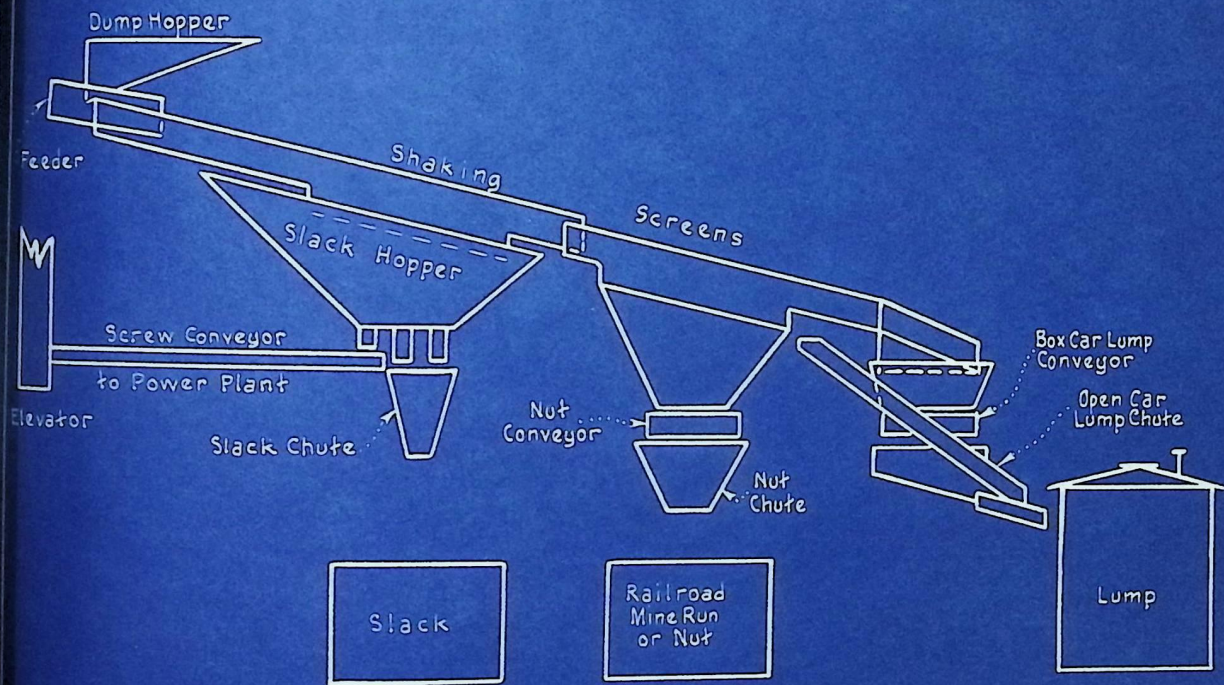
Showing the percentage of the various sizes in the Mine Run Coal

Through 1"	38.7%
1" x 1 5/8" Pea	9.3%
1 5/8" Slack	48.0%
1 5/8" x 3"	17.0%
3" x 8"	23.0%
3" Lump	35.0%
8" Lump	12.0%
Length of Test	1 day

These results should be fairly accurate.

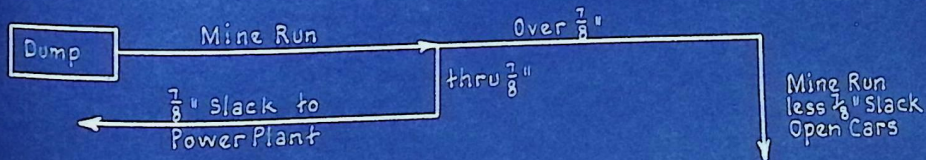
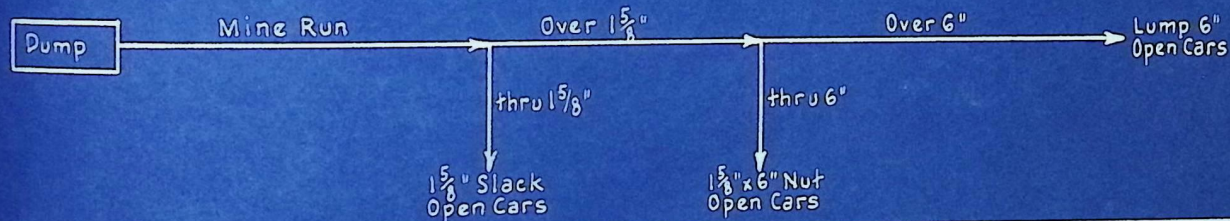
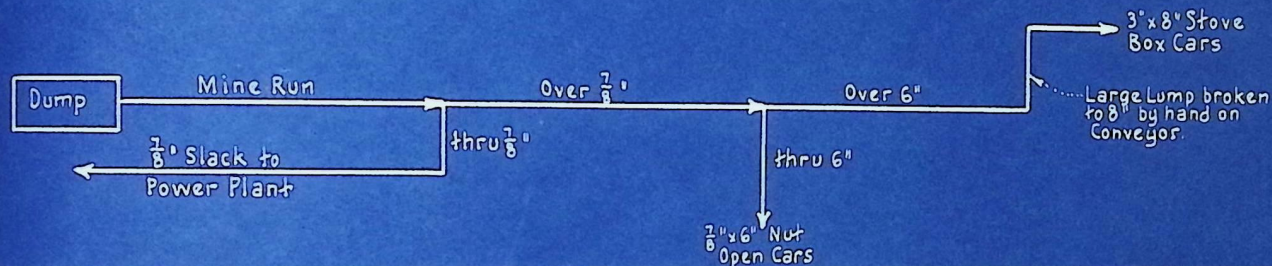


Plan Sketch
 OAKLEY TIPPLE
 DIAMOND COAL & COKE CO.
 Diamondville, Wyo.
 Not to Scale 12-14-1934.



Profile Sketch
 OAKLEY TIPPLE
 DIAMOND COAL & COKE CO.
 Diamondville, Wyo.
 Not to Scale 12-14-1934.

FLOW SHEET
Oakley Tipple
Diamond Coal & Coke Co.- Diamondville, Wyo.
Illustrating Various Sizes of Coal Prepared at Tipple



RESULTS OF SCREEN ANALYSIS

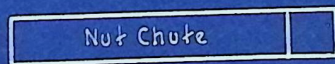
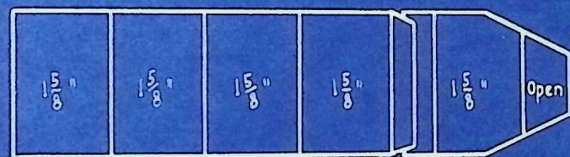
Oakley Tipple

Diamond Coal & Coke Company, Diamondville, Wyoming

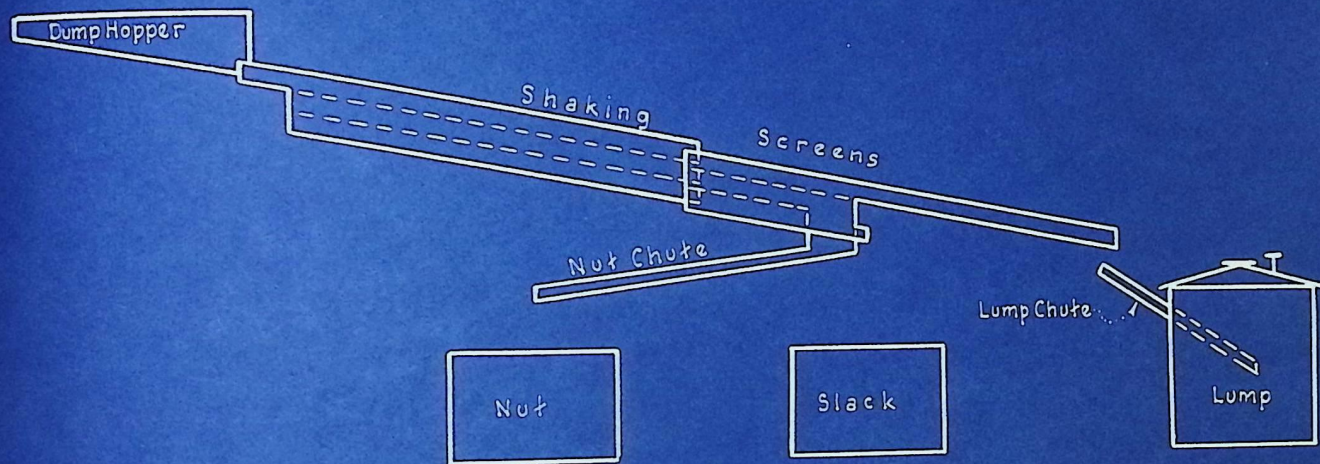
Showing the Percentages of the Various Sizes in the Mine Run Coal

Through 1/4"	9.0%
1 5/8" Slack	43.3%
1 5/8" x 6" Nut	32.3%
6" Lump	24.4%

These figures are the result of Superintendent Sawley's estimate. No 1" Slack, 1" x 1 5/8" Pea or 1 5/8" x 3" Nut have been loaded at this mine due to inadequate tipple facilities.

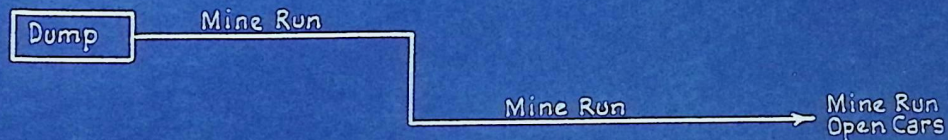
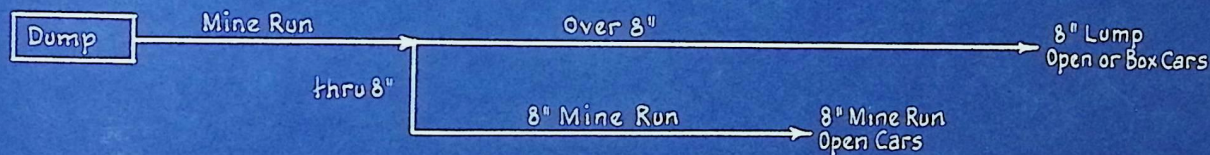
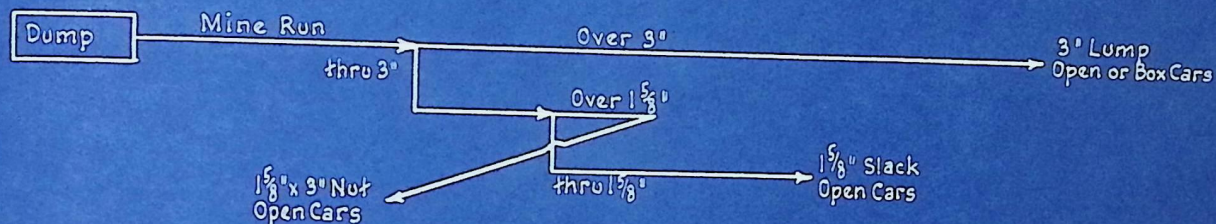


Plan Sketch
 LINCOLN STAR TIPPLE
 LINCOLN STAR COAL CO.
 Blazon, Wyo
 Not to Scale 12-13-1934.



Profile Sketch
 LINCOLN STAR TIPPLE
 LINCOLN STAR COAL CO.
 Blazon, Wyo.
 Not to Scale 12-13-1934.

FLOW SHEET
 Lincoln Star Tipple
 Lincoln Star Coal Co.
 Illustrating Various Sizes of Coal Prepared



The Lincoln-Star tipple has just been completed recently, and no figures are available at present upon the percentages of various sizes in the Mine Run. However, the percentages will probably be comparable to those of the Blazon Coal Company.

FLOW SHEET
Oakley Tipple
Diamond Coal & Coke Co. - Diamondville, Wyo.
Illustrating Various Sizes of Coal Prepared at Tipple

