mmogra Ch	FILE NO.
Mr. M. C. Haller	194
Mr. M. C. Haber Che (co M. P. J. Lynch Mr. J. J. Layled	
Mr O Garlet	
Mr. D. J. Bagles	day !
m- Hol Dila	01.0
m ga Da	
M. G. D. Bai	Pan-
Report of test of Mugge	+ Carl Companis
rund mine coal in low	native 5033 prol
4005 november 14 to Nove	rache 19 in lucios
Os indicated in Plane	
Mr. E. R. adams report of No	
for test purposes for city	
was obtained from a fair of	
sund mine cool from the	
Company strip operations	real Hann Morning.
Foremotive 5033 was be	
helperserie skithning re	
which was obtained from a	
Chiete coal November 14, the d	
consisted of the following; 2 can	
Superior, 6 Cale Reliance, 2 Co	
i ears Rock Springs.	1

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This run was made to obtain a basis
Horomhavison with runs made with text
coal On this fun locomotive 5033 steamed
freely and burned a good five. The five
was apparently fore of clinkers and athe
amount of ask about average as indicated
by the Condition of fire at completion of sun Chegenne to Sherman.
Aun Cheron me to the mon.
On November 15 locomotive 5033 was
used Cheyenne to Sherman burning test
coal from car UP88297.
This cool was exeptated frequently in
the stoker conveyor trough as fired. The
Reventage of impurities was very low and
the percentage of slack very high. In observing the fire it was noted that a
considerable amount of the finer coal burned
in wishens The live was somewhat
in suspension. The fire was somewhat
smoke was noted in the fire box. The
five bed was thinner and the ask much
finer than on the previous trip.
The state of the s



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There was no clinkering observed the locomotive steamed better beining the test coal than with the goal level on the frevious trip. It a check another trip was made with locomotive 5033. November 16 Cheyenne to shermen with text coal from UP 86 606 replacing coal used November 15. Observations and results were essentially the same as on November 15 trip. Ohn November 18 gloromotive 4005 was used as a helper Cheyenne to Sherman burning test coal from UP 88297 and UP 86666. The locomotive steamed fruly and burned a thin level five. Its leftere a considerable amount of the five coal burned in suspension. The fire was recy free of smoke and it was forsible to been the entire fire bed most of the time. There was no clinkering and the well assessment of ash was very fine. Thorlomplete the text, regular



Houns of combre Hanna coil from car UP86996 was might with the remainder of the test cool and used on locomtive 4005 Cheylune to favanie November 19: There was no noticeble difference in the steaming of the locomotive, the fire, fire bed of ash. There was no clinkering and the fire was thin and level It was possible to see all farts of the fire almost any time It was noted on both trips with locomotive 4005 that fattilly bund fuel and ash going over the archishwed no indication of planticity and none Thetest comple of the Hugget Chal Company's strip coal proved satisfactory for use in locomotives either reformed on might with regular Hanna coal It characteristics are similar to there regular Harris Cool as indicated They afferrance, ask and burning Mandeteristics. It is somewhat more

(5)	LE NO.
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frighter than it les well , which tiend	de too
frishe than it desirable which tind	Consequent
increase in free moisture if a	the state of
coal is stored in the open.	
When fired under the conditions	14005
which may be considered arrange, no	-
difficulty should be experienced wi	
strip mine coal as long as to	
quality is comparable if that	Pitho.
quality is comparable of that of	
P. E. Glebbe Engineer f. A.	, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Ensure AA	196
	A. The Control of the

Omaha - November 10, 1948 1 1948

023-032

Mr. J. Gogerty:

Mr. P. J. Lynch

Mr. E. H. Bailey Mr. P. E. Flebbe)

Cars UP 88297 and UP 86606 were loaded with mine run coal at the Nugget Coal Company's strip mine at Hanna on November 10. The coal was billed to the Union Pacific Railroad Company, Cheyenne, Wyoming, attention Mr. P. E. Flebbe, and placarded "Do not divert". This coal was for test purposes as per recent correspondence.

We would like to have one car of this coal burned without mixing with other Hanna coals, and one car burned. mixed with the Hanna coal; the clinkering qualities to be particularly observed when mixed.

Would appreciate a detailed report.

Omaha, November 9, 1948 023-101-02

Mr. L. L. Hoeffel:

Arrangements have been made to obtain two cars of Hanna coal from the Nugget Coal Company's strip operations at Hanna, which are being forwarded to Cheyenne billed to Union Pacific attention P. E. Flebbe.

Desire to develop the burning qualities of this coal in steam locomotives when burned alone, as well as when mixed with other Hanna coal.

Arrange to use this coal on helper engines out of Cheyenne; initial test trips to burn this coal only. Also, additional trips to be made mixing this coal with regular Hanna coal for further test and observations. Number of trips required will be dependent upon performance obtained on test trips as reported by Mr. Flebbe.

J. Gogerty

Omaha, November 11, 1948 023-101-02

Mr. L. L. Hoeffel:

(CC - Mr. J. J. Daly - Cheyenne Mr. P. E. Flebbe)

Supplementing my letter Movember 9 relative to conducting test on two cars of Hanna coal from Nugget Goal Company strip operations at Hanna.

Mr. Daly should arrange to load this coal on tender with clam shell.

J. Gogerty

Pot 010 Dest I man chim

Omaha - November 12, 1948 023-032

Mr. P. J. Lynch:

Mr. H. E. Shumway:

Mr. J. Gogerty:

Mr. E. H. Bailey:

Mr. P. E. Flebbe:

Following is report of Mr. E. R. Adams, Coal Inspector, Rock Springs, Wyoming, dated November 9, covering loading of two cars of strip mine coal for test purposes from Nugget Coal Company mine near Hanna:

- "I have this date observed the loading of two cars of 6" mine run coal Nos. UP 88297 and UP 86606 by the Nugget Coal Company at their strip operation.
- "The coal in this strip operation is about 200 feet wide and approximately 22 feet thick. In determining a fair face sample of this coal two truck loads were taken from each side and from the middle of the strip.
- "At the tipple the coal is dumped from the trucks into a bin and fed into a crusher set at 6 inches. It is then conveyed, by belt, to another bin and loaded from this point into the railroad cars through a round chute.
- "This coal contains some impurities. The only means of cleaning is by placing men on the belt line and in the railroad cars. You will understand that a thorough job of cleaning cannot be done in this manner. Also, this tipple is not equipped with a magnetic pulley.
- "These two cars of coal loaded for test purposes appeared to be of good quality.
- "Mr. Hodge Burress was busy so he sent Mr. William Egan with me to observe this loading. No representative of the railroad was on hand. Mr. Ed Tynsky, Supt. of Nugget Coal Company, accompanied us in this inspection and was cooperative in every respect."

V. N. Bayles

Cheyenne Mor 21 1948 Mr. M. C. Haber on the spark arresting qualities of 3400 and 4000 class Colomotive front end avongements which have been modified with 45° deflecting plate. Locantive 4005 with modified front end avangement was used Hovember 19 Cheyene to farmine burning regular Hanna coal mixed with test coal from the Bugget Cal Company stop mine meir Hanna Hanna Coal because of its physical characteristics for Doministrative spliks than other cools and this run Afforded an unusually good of portunity for of the front end arrangement. Formstive 3988 double heading with locomotive 4005 and coaled with regular Chute coal emitted a constant shower of sporks many of which glowed until loconotive 4005 limited only

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occasional sparke, sometimes	singles
and sometimed five or six at a	
The state of the s	1111
The spark arresting qualities of the	
front end arrangement can be so	
entirely satisfactory and apparen	the draw
not limpain the steaming que	lities of
the locomotive as full boiler	
was easily maintained even	when
gaining water.	
PROTIE	00
S. The	662
Chainen	la llet
P.Ale Engine	Do bar
	ATTER BROKES
	A CAN THE PROPERTY
The state of the s	- 12 P 2 P 3 P 3 P 3 P 3 P 3 P 3 P 3 P 3 P
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Mr. P. E. Flebbe:

Referring to conversation in connection with standing tests being conducted by the Southern Pacific on a 4-8-4 type passenger locomotive at Sacramento:

Attached is Southern Pacific pass D-935792 from Ogden to San Francisco and return. As soon as you have completed a round trip with a locomotive equipped with continuous blow-off connected to injectors, arrange to proceed to Sacramento, contacting this office before you leave so that Southern Pacific officers may be advised accordingly.

M. C. Haber