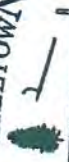


Missoula, Montana, scene from "TIMBERJACK", a Republic Picture presented by HERBERT J. YATES.



LOGGING CAMP TOUR
APRIL 28 2012

BONNER MINTOWN



HISTORY CENTER

P.O. Box 726

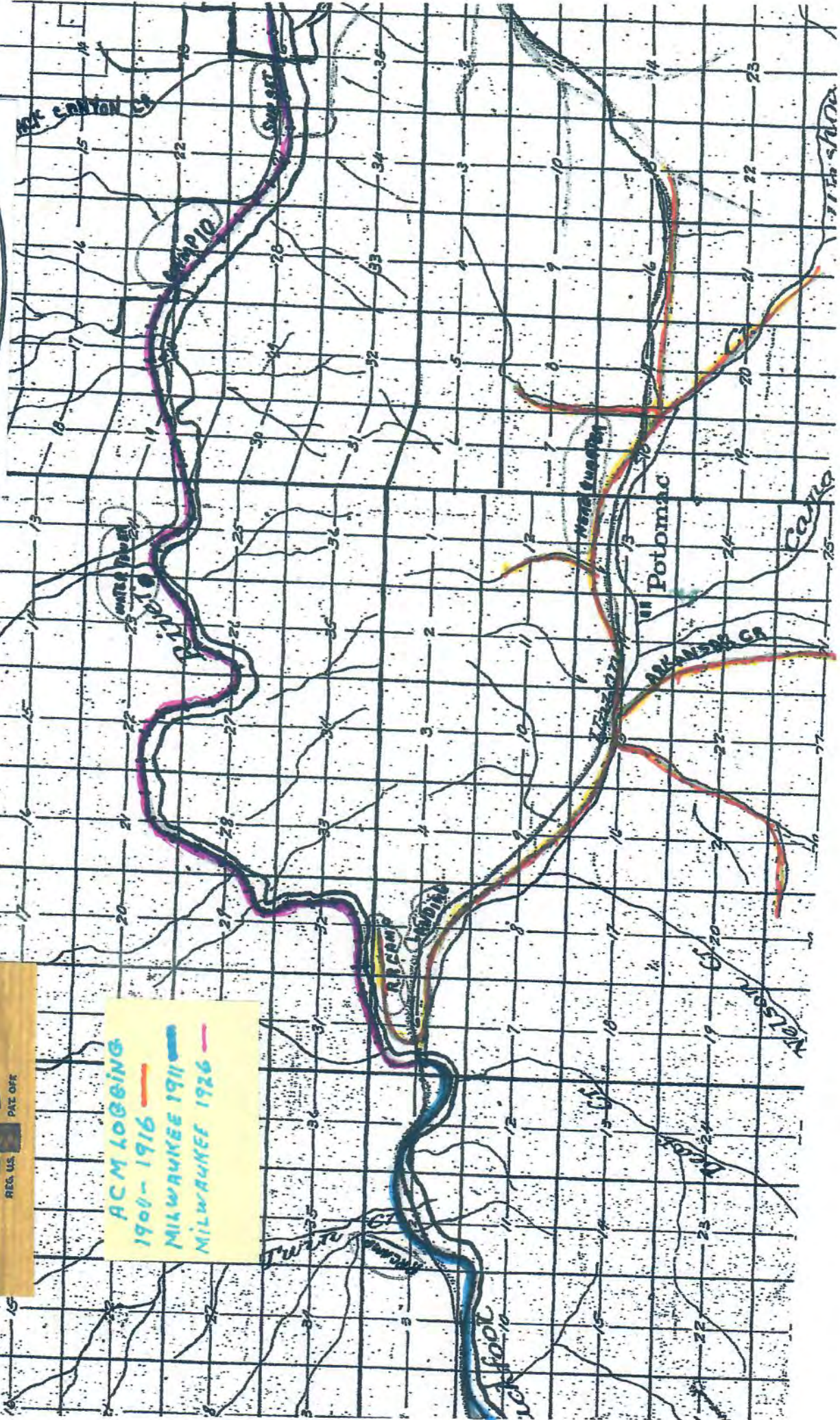
Bonner MT 59823

ANACONDA



REG. U.S. PAT. OFF.

ACM LOGGING
 1904-1916
 MILWAUKEE 1911
 MILWAUKEE 1926



LIMA SHAY GEARED LOCOMOTIVES

STANDARD SPECIFICATIONS FOR ALL LOCOMOTIVES

With each proposition for locomotives we furnish a detailed specification giving all the important dimensions. Particular attention is paid to locomotives required to work under unusual or severe conditions, and the designs are made to meet the case. We are prepared to build Shay Locomotives to burn hard and soft coal, coke, wood of all varieties, and oil. The fire-box, grates, dampers, front-end arrangement, and stack are changed to suit the fuel desired.

Each wood or coal burning locomotive is supplied with the following tools:

Water-Gauge Glass Lamp	1 Wood or Clinker Hook	1 Sample Can of Grease
Cab Lamp	1 Coal Pick	1 Water Glass
Torch	1 Coal Shovel	Wrenches for all Nuts
Cape Chisel	2 Locomotive Jackscrews	1 Valve Tram
Cold Chisel	1 Pair Wrecking Frog and Wedge	2 Seat Boxes
Hard (Machinist's) Hammer	1 Tallow Pot	2 Cushions
Soft (Copper) Hammer	1 Spare Set of Piston-Rod Packing	1 Packing Hook
Combination Pipe and Monkey Wrench	1 Hand Oil Can	1 Packing Spade
Pinch Bar	1 One-gallon Oil Can	1 Square Bar
File Scraper	5 lbs. of Waste	2 Jack Bars
Ash Hoe	1 Sample Can of Oil	1 Spanner Wrench

SPECIAL EQUIPMENT

The following items are not regularly furnished, but can be applied to locomotives for a reasonable extra charge:

Extra Headlight	Lima R. & H. Stack
Air Brake	Diamond Stack
Electric Headlights	Superheater
Acetylene Headlights	Firebrick Arch
Fire Extinguisher	Wide Tires

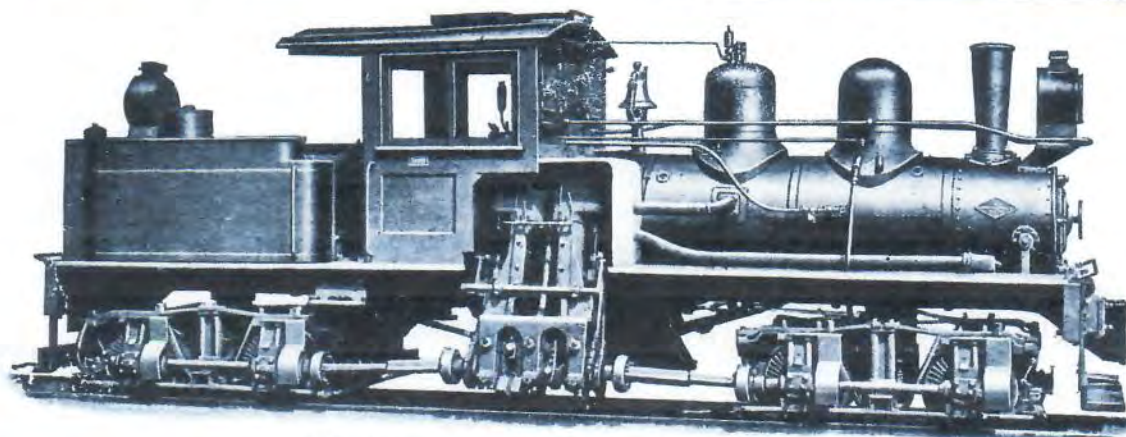
MATERIAL

All material entering into the construction of Shay Locomotives is made to conform to the latest approved practice of railroads and locomotive builders and is in accordance with the latest requirements of the American Society for Testing Materials and Railway Master Mechanics' Association.

The Lima Locomotive Works, Incorporated, has a testing department with men in charge who are thoroughly familiar with locomotive requirements and capable of making complete chemical analyses and physical tests of all material entering into locomotive construction.

The laboratories are equipped with modern testing machines and approved apparatus for chemical analyses.

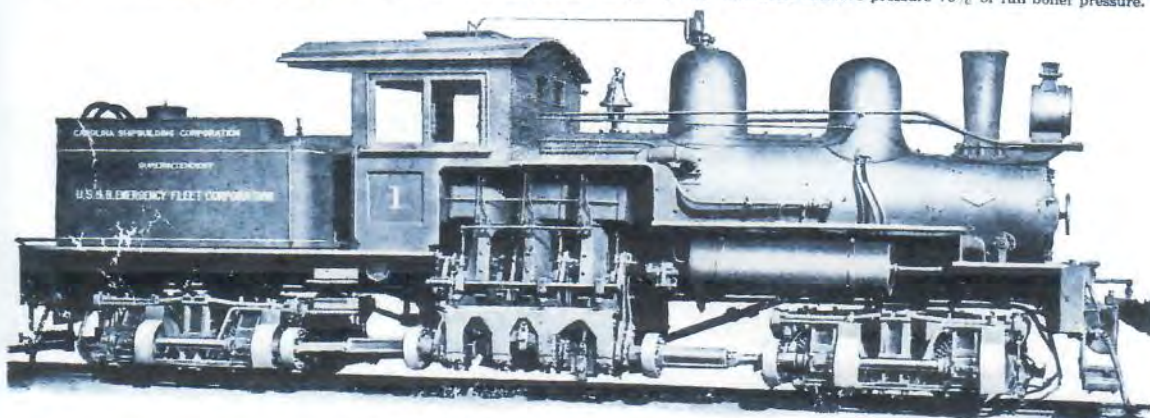
On each locomotive this work is followed closely by our Chemist and Engineer of Tests. A suitable record is kept of all tests made so that we know the quality of all material used in our product.



CLASS "A" SHAY LOCOMOTIVES

CODE WORD	Weight in Working Order		CYLINDERS			WHEEL BASE			DRIVERS		Capacity of Water Tank	Fuel Capacity, Coal	Fuel Capacity, Wood	Fuel Capacity, Oil	Tractive Power	HAULING CAPACITY IN TONS OF 2,000 LBS. (EXCLUSIVE OF ENGINE)							
	Tons	Lbs.	No.	Stroke		Total		No.	Diam.	ON GRADES—STRAIGHT TRACK													
				In.	In.	In.	Ft. In.			In.						In.	Gals.	Tons	Cords	Gals.	Lbs.	On Level	1%
AHE	13	160	2	6	10	48	18 10	8	22	8	22	400	1 1/2	125	6050	643	326	203	113	76	55	43	31
ABL	18	160	2	7	12	50	21 0	8	29	8	29	730	1 1/2	285	7480	914	395	246	135	88	64	48	37

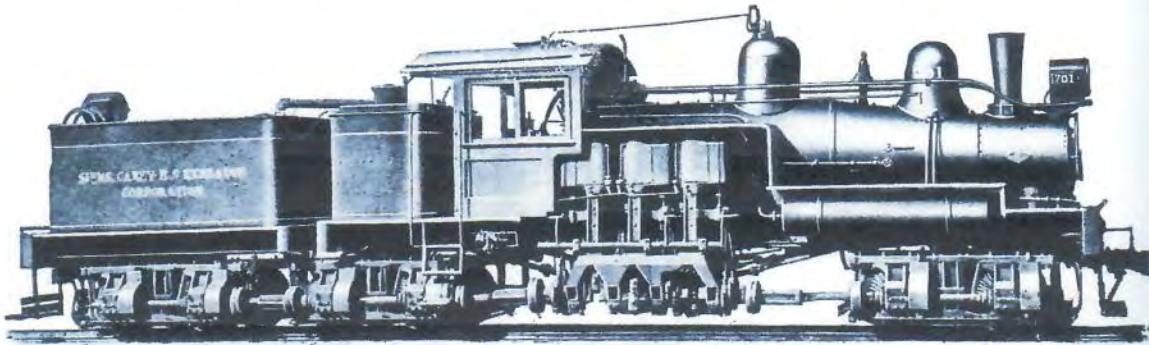
NOTE.—All hauling capacities given above are based on 8 lbs. per ton rolling friction, and mean effective pressure 75% of full boiler pressure.



CLASS "B" SHAY LOCOMOTIVES

CODE WORD	Weight in Working Order		CYLINDERS			WHEEL BASE			DRIVERS		Capacity of Water Tank	Fuel Capacity, Coal	Fuel Capacity, Wood	Fuel Capacity, Oil	Tractive Power	HAULING CAPACITY IN TONS OF 2,000 LBS. (EXCLUSIVE OF ENGINE)							
	Tons	Lbs.	No.	Stroke		Total		No.	Diam.	ON GRADES—STRAIGHT TRACK													
				In.	In.	In.	Ft. In.			In.						In.	Gals.	Tons	Cords	Gals.	Lbs.	On Level	1%
BA	20	160	3	8	12	50	23 6	8	29	8	29	730	1 1/2	285	8600	1055	457	287	158	106	78	59	47
BAY	24	160	3	8	8	50	24 1	8	29	8	29	830	1 1/2	500	9750	1198	518	325	179	119	87	66	52
BALE	28	160	3	8	10	50	24 4	8	29	8	29	850	1 1/2	500	12200	1498	650	407	226	152	111	85	67
BALER	32	160	3	8	12	50	25 5	8	29	8	29	1000	1 1/2	500	13500	1855	718	451	249	167	121	93	73
BALLAD	36	180	3	10	10	50	26 5	8	32	8	32	1200	1 1/2	800	14320	1756	760	476	262	174	126	96	76
BALLOON	42	180	3	10	12	50	27 2	8	32	8	32	1560	1 1/2	800	16900	2070	898	562	310	206	150	114	90
BALUSTER	50	200	3	11	12	52	28 10	8	32	8	32	1750	1 1/2	950	22560	2775	1205	767	421	282	206	159	126
BALUSTRAD	57	200	3	12	12	56	33 4	8	36	8	36	2000	1 1/2	1200	23990	2928	1267	793	438	291	211	161	127
BALUSTRUT	70	200	3	13	15	60	34 10	8	40	8	40	3000	1 1/2	1500	32480	3985	1730	1083	602	402	294	225	179

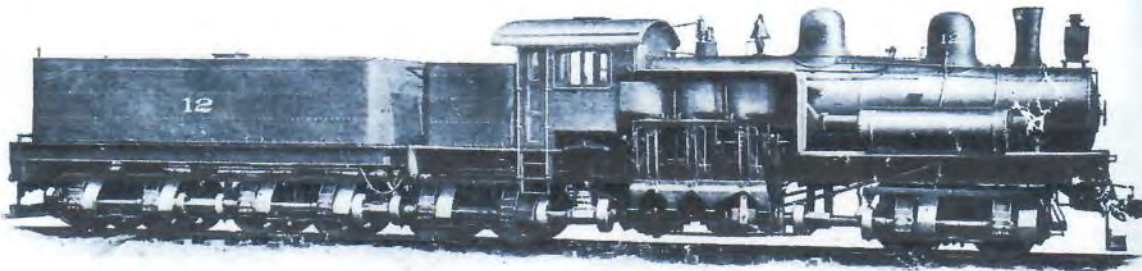
NOTE.—All hauling capacities given above are based on 8 lbs. per ton rolling friction, and mean effective pressure 75% of full boiler pressure.



CLASS "C" SHAY LOCOMOTIVES

CODE WORD	Weight in Working Order		CYLINDERS			WHEEL BASE			DRIVERS		Capacity of Water Tank	Fuel Capacity, Coal	Fuel Capacity, Wood	Fuel Capacity, Oil	Tractive Power	HAULING CAPACITY IN TONS OF 2,000 LBS. (EXCLUSIVE OF ENGINE)						
	Tons	Lbs.	No.	Diam.	Stroke	Rigid	Total		No.	Diam.						ON GRADES—STRAIGHT TRACK						
							In.	Ft.								In.	In.	On Level	1%	1%	2%	3%
CA	60	200	3	11	12	52	35	6	12	32	2000	3 1/2	1200	25830	3165	1372	862	479	320	234	170	14
CAP	70	200	3	12	15	52	40	2	12	36	3000	5	1200	30350	3723	1616	1014	562	376	275	211	16
CARE	80	200	3	13 1/2	15	56	44	6	12	36	3000	5	1200	35100	4305	1868	1169	648	434	317	242	18
CARAT	90	200	3	14 1/2	15	56	43	3 1/2	12	36	3500	5	1500	40400	4960	2156	1353	752	504	369	284	20
CARBON	100	200	3	15 1/2	17	58	45	6	12	40	4000	6	1500	44100	5411	2349	1470	819	548	400	308	24
CAPTURE	125	200	3	17	18	64	46	10	12	46	4000	9	2000	53000	6500	2817	1768	979	654	477	366	28

NOTE.—All hauling capacities given above are based on 8 lbs. per ton rolling friction, and mean effective pressure 75% of full boiler pressure.



CLASS "D" SHAY LOCOMOTIVES

CODE WORD	Weight in Working Order		CYLINDERS			WHEEL BASE			DRIVERS		Capacity of Water Tank	Fuel Capacity, Coal	Fuel Capacity, Oil	Tractive Power	HAULING CAPACITY IN TONS OF 2,000 LBS. (EXCLUSIVE OF ENGINE)							
	Tons	Lbs.	No.	Diam.	Stroke	Rigid	Total		No.	Diam.					ON GRADES—STRAIGHT TRACK							
							In.	Ft.							In.	In.	On Level	1%	1%	2%	3%	4%
DAN	150	200	3	17	18	64	58	4	16	46	8000	9	2000	53000	6475	2792	1743	954	629	452	341	264

NOTE.—All hauling capacities given above are based on 8 lbs. per ton rolling friction, and mean effective pressure 75% of full boiler pressure.