

LUCE COUNTY TAXES

1933														1934													
TOWNSHIPS	VALUATION	TOTAL TAX	RATE	STATE	COUNTY	TOWNSHIP	PAID BY CC/CO		VALUATION	TOTAL TAX	RATE	STATE	COUNTY	TOWNSHIP	PAID BY CC/CO												
							AMOUNT	%							AMOUNT	%											
COLUMBUS	698500.00	16300.66	2.33	370.83	6989.03	8940.80	12829.68	17																			
LAKEFIELD	295700.00	5536.38	2.78	156.78	2954.86	2424.74	382.35	107																			
MC MILLAN	4390990.00	116934.75	2.66	2329.83	43909.98	70694.94	35482.35	20																			
PENTLAND	512725.00	9501.57	1.87	271.94	5025.28	4204.38	62.45	1006																			
TOTAL	5897915.00	148273.36	2.51	3129.38	58874.15	86264.82	48756.33	33																			

1935														1936													
TOWNSHIPS	VALUATION	TOTAL TAX	RATE	STATE	COUNTY	TOWNSHIP	PAID BY CC/CO		VALUATION	TOTAL TAX	RATE	STATE	COUNTY	TOWNSHIP	PAID BY CC/CO												
							AMOUNT	%							AMOUNT	%											
COLUMBUS																											
LAKEFIELD																											
MC MILLAN																											
PENTLAND																											
TOTAL																											

1937														1938													
TOWNSHIPS	VALUATION	TOTAL TAX	RATE	STATE	COUNTY	TOWNSHIP	PAID BY CC/CO		VALUATION	TOTAL TAX	RATE	STATE	COUNTY	TOWNSHIP	PAID BY CC/CO												
							AMOUNT	%							AMOUNT	%											
COLUMBUS																											
LAKEFIELD																											
MC MILLAN																											
PENTLAND																											
TOTAL																											

REPORT OF MR. R. A. BROTHERTON FOR YEAR 1933.

SURVEYS:

A total of twenty-seven surveys were made during the year to locate corners, boundary lines, descriptions for leases and deeds, shore frontages, railroad spurs, road locations, etc., on the following sections:

Section	Town	Range	Section	Town	Range
7	46	19	35	48	28
18	46	19	35 - 36	46	20
28	46	20	32	47	17
9 - 10	47	27	21	47	26
13 - 14	48	15	21	48	27
24-25-26	46	18	30 - 32	47	17
23	46	18	34	48	26
31	47	18	8	48	26
24	47	27	29 - 32	46	20
34	48	27	14	46	19

Also numerous surveys were made in Ishpeming, Negaunee, Marquette, and Munising, staking lots and boundaries for sales and leases.

MAPS:

The following number of maps were made during the year:

	White Prints		Negatives		Blue Prints		Prints 14x17
	No.	Yds.	No.	Yds.	No.	Yds.	
January	152	42	36	12	28	7	72
February	126	34	41	16	8	2	84
March	142	32	34	12	28	18	92
April	138	41	12	14	16	8	34
May	176	57	34	12	26	10	98
June	142	49	38	15	32	5	72
July	128	32	14	10	36	5	84
August	138	42	12	7	41	11	38
September	139	32	14	8	12	3	24
October	38	12	8	6	36	10	39
November	26	10	12	14	28	15	42
December	31	22	10	12	5	6	24
TOTAL	1376	405	265	138	296	100	703

FOREST FIRES:

The months of June, July, and August were exceptionally dry and numerous small fires occurred all over the Upper Peninsula, mostly being caused by berry pickers, fishermen dropping cigarettes and what is strange, very few being caused by railroads and

farmers burning brush. The railroads and farmers were our chief offenders, causing fires in previous years, but due to careful watching by the section men employed by the railroads and not allowing farmers to burn brush in clearing land except under proper supervision, a great number of fires caused by them in previous years has been checked. Very few of these fires caused damage to our holdings. The largest fire occurred in the Sand River District on Sections 11 and 14-47-23, damaging a small amount of hemlock on our holdings. This fire started the last week in July and there were 175 men working on it until the first week in August when it was got under control and 30 to 45 men were kept on the fire until the 18th of August, when it was finally put out. The fire burned over about 2200 acres, most of this area was burned over previously during the big Fredeen fire in 1925. A large fire occurred in the Gwinn Area, southwest of Johnson Lake, burning a small amount of Jack Pine on our land in Section 28-45-25. The damaged timber is being cut and very little loss will be caused to the Company.

Very valuable assistance was rendered to the State fire wardens by the men from the various C.C.C. Camps in fighting fires. I think during the summer that in having these camps is a great thing, as it makes available a large crew of men for fire protection on short notice, as we all know a fire has to be checked at once before it develops into a crown fire when it is very difficult to fight it. The total rainfall for the year 1933 was as follows:

Negaunee	35.07 in.
Ishpeming	28.72 "
Marquette Weather Bureau	29.01 "
Marquette - C.C.I.Co.	28.49 "
Gwinn	29.95 "
Munising	30.05 "

LAND LOOKING:

Examinations of land and timber, also trespasses were made on the following Sections during the year:

Section	Town	Range	Section	Town	Range
24	46	20	34	43	31
18 - 19	49	26	11	41	32
6	47	25	20 - 32	44	32
29	44	36	4	43	35
			30	44	35

SAND POINT ROAD:

The survey for this road was made during the Fall of 1932 and it passes over the land we were considering for the Silica Sand Project and if the Silica Sand Project should be developed in the future the road will be of great help. Work was started on this road as a County Aid Project and 19 men were employed cutting right-of-way and doing some grading. It was taken over as a CWA project in December and about 60 men were placed on the job. At the end of December, the entire right-of-way has been cut out, three-quarters of a mile grading finished and one and one-half miles of grubbing done. It is expected that the grading will be completed by Spring.

FORESTRY - PINE FARM:

I spent some time with Professors Young and Ramsdell from the University of Michigan, examining the Pine Farm Planting. After a careful examination of the entire planting, they surveyed a strip two chains wide across the north part of the planting, one and one-half chains south of the north line through an average stand of the timber in the tract. This area was carefully measured, setting stakes every five chains east and west and each one-half chain north and south. After thinning out some of the Scotch Pine to give a better air drainage and allow a faster growth, they made a count of every tree, taking diameter of the stump, and height of same, also the condition of the tree. This average strip will be remeasured at five year intervals and accurate growth and yield tables prepared from the results found. They will send us a report of their results of this survey as soon as they compile the information. This work is to be done without any expense to the company. I furnished them with axes, saws, rope and pine stakes, which they desired me to replace with iron pins as the stakes would rot out before the five years were up and also helped them with their surveying, etc.

TAHQUAMENON RIVER SURVEY:

A general survey was made of the Tahquamenon River from Newberry to the mouth at Emerson, a distance of about 52 miles, to determine the feasibility of driving and delivering pulpwood in booms for water shipment from this point.

The following report was made by Mr. Harwood, of the Thilmany Pulp & Paper Company, and myself, and we were accompanied by Mr. Harold Lawrence, Land Agent of the

Newberry Lumber & Chemical Company, and Mr. Robert Hunter, who has made numerous drives of the river, taking out pulpwood, logs, and piling and who is well acquainted with conditions of the stream.

CONDITION OF RIVER

We find the entire stream from Newberry to the north at Emerson to be entirely free from dead heads and obstruction of all kinds, and find the river ideal for moving logs or pulpwood. From the breakup in early March to May 1st, it is not feasible to drive the river, owing to high water and the fact that the river is over its banks at many points between Newberry and Upper Falls. On Section 27-48-8 there is a large bayou and the river at this point runs around an island where diverting booms will have to be placed to prevent logs entering same, which can be thrown across from the main land to the island at a very small expense as cedar boom sticks can be cut on adjoining lands; this distance on both sides being about 150 feet, making a total of 300 feet of boom necessary to hold pulpwood in main river.

The banks of the stream range from flats to 10 to 12 feet high and from Bayou to Falls, no low places, and from the Upper Falls to mouth all the banks are high. The river is very deep water, flowing about 1 mile per hour, and pulpwood can be driven over the Falls for a period of six weeks or more, depending on seasonal conditions.

We find at the Little Falls there are two Falls divided by an island. The south channel is the one to be used and a diverting boom will have to be placed to prevent logs from running down the north channel. There are now old cribs filled with stone at this point where booms can be tied to and it be necessary to place about 800 feet of booms at this point. This would not be of great expense as the boom sticks would be cut on lands adjoining the river above the Upper Falls and floated to this point and put in place before drive is made.

From the Lower Falls to Section 15-48-6, there will be no expense in the river. On Section 15, there is a canal cut across a large bend in the river that will have to be kept open to allow the passage of boats, and a diverting boom will be placed at this point, allowing the pulpwood to follow the old river bed to the mouth and all pulpwood will be stored in the river from this point to the bridge, until same is ready to be made

in booms for loading into boats. We estimate the bend in the river to be about 8000 feet long and 300 feet wide, and should provide sufficient storage place for 20,000 to 30,000 cords. Additional storage place between the bridge and the bar would safely hold unlimited amount of pulpwood preliminary to loading vessels. A small channel would have to be kept open for boats, however, entering the river. We find that there is 10 feet of water or more at all times above the bridge beyond proposed storage booms.

Mr. Lawrence states that his company originally owned all of the land adjacent to the mouth of the river but same had been sold under contract to James B. Weber, c/o J. L. Hudson Co., Detroit, Michigan, but up to date he had not taken up the deed to same. It would be necessary to arrange with him for any ground necessary for camps for men, sorting, booming, loading or banking pulpwood. At the point above proposed storage boom, is an ideal location for boom house for men, having high bank and flowing well.

Gas tugs for rafting to vessels can be secured from Clark Brothers who live at Emerson, or Brown Fisheries at Whitefish Point. There is a lift section of the Highway Bridge, which will allow the passage of gas boats into the river.

PROPOSED METHOD OF OPERATING

After considerable discussion as to the best method of operating, we decided that the cutting of the pulpwood should start as early as possible in the Spring so as to allow as much time as possible for the drying of same, the wood would then be skidded and ready for hauling as soon as ice roads could be made in the Fall. All hauling will be done with tractor to the river and the pulp decked on the bank of same until the logical time for driving in the following Spring. This will also allow additional time for the wood to dry. There are so many open swamps and marshes that Mr. Hunter did not consider the use of trucks practical. He would rather use a tractor, hauling 5 to 6 sleighs, hauling 12 cords each, and making two trips per day to the River. We also considered the driving of the Auger and Murphy Creeks, but owing to seasonal conditions and expense of clearing creeks and building dams we find the tractor haul to the main river the most practicable.

We find that the Jack Pine grows on ridges through this entire area and the Spruce and Balsam lies adjacent to it on the lower land between the ridges, and all of

the different species must be operated at the same time, the sorting of the Spruce and Balsam to be done at the head of the storage basin at the mouth of the river. The expense of this sorting should be borne by the highest price wood.

QUALITY OF TIMBER

Mr. Harwood took borings of the Jack Pine on our lands in Sections 10 and 14, 47-9 and found the timber to be second growth timber of 70 years growth and the wood to be sound and white of good quality. Not overly large, some small but a good average run of Jack Pine stand. The Spruce average of good quality but the Balsam faulty and small amount seen. The Hemlock pulpwood and logs are average stand, good quality and not much buttage.

LAKE FRONTAGE:

No additional lake frontage was staked out this year as there seemed very little inquiry for same. Several cottages were built on leased lots on Gold Lake on Section 35-48-28.

U. S. FOREST EXPERIMENTAL STATION LOGGING:

A contract was let to Wm. Marjaniemi to log 38 acres on the north of Section 35, 46-23, the cutting to be done under the direction of the Forester in Charge of the Station. The area to be cut is in the hardwood-conifer type along the creek that runs through the forest and on the attached map the area is colored red. The area includes a small acreage of swamp and should cut about 50 thousand feet of hardwood saw timber, 110 cords of chemical wood, 85 cords of spruce and balsam pulpwood, and about 100 cords of 7-ft. cedar lagging.

The method of cutting proposed is in the nature of an improvement cutting. Only about one-half of the yellow birch and maple would be removed and these the most over-mature trees. Practically all the merchantable spruce and balsam pulpwood would be cut, also all of the cedar which is badly over-mature, also the sound dead cedar will be made into lagging.

No shipments have been made on this job and we are unable to make any figures of the yield, etc.

WOOD CUTTING:

No wood cutting was carried on by the company for the benefit of the unemployed

during the year but lands were assigned to the County and the wood cutting was carried on under their supervision and expense involved being borne by them. Each man cutting was assigned a parcel of timber 200 feet square, the men cutting the wood and the County contracting with truck owners to haul it to the homes at a cost of \$1.00 per cord, this cost to be borne by the men cutting. Lands were also assigned to the County by the Oliver Iron Mining Company for wood cutting.

LOGGING OPERATIONS:

Only #154 Logging Job was operated by us during the year, operating two camps, as the demand of chemical logs from the Furnace required it and for a short period closed down one camp as their consumption of chemical logs dropped off. A third camp, under Armo Lahti, Contractor, loaded out cordwood cut from the area from which the log timber had been previously removed.

CAMP NO. 1 - OPERATION #154:

This camp was operated continually during the year. January 1st to January 25th had an average of 100 men, 20 teams, 1 tractor, and 2 loaders, from then to February 20th was cut to one crew about 60 men, 1 loader, but after February 20th, was run full with an average of 100 to 110 men, 20 teams, 2 loaders, until October 7th when this camp was again reduced to one crew until the sleigh haul started on November 29th.

CAMP NO. 5 - OPERATION #154:

This camp was operated from January 1st to the 25th with one crew of 60 men, 12 teams, 1 loader, when it was closed down until the 19th of June when, owing to the increased demand for chemical logs, it was again opened and ran with one crew of 50 men, 9 teams, and 1 loader until the middle of July when more horses were purchased and the crew increased to 110 men, 20 teams, and 2 loaders, and was operated continually until the end of the year with a crew running from 100 to 110 men, 20 to 24 teams, and 2 loaders. An addition to the barn was built at this camp during July costing \$224.01. It was necessary, owing to the increased demand from the Furnace for chemical logs, to purchase and add to our logging equipment the following:

63 horses-Purchased during Aug. Sept. & Oct.	\$11,530.00
23 sets Harness	930.37
500 Camp Blankets	825.00
2 Railroad Coaches	300.00
Total	\$13,585.37

CAMP NO. 6 - OPERATION #154:

Construction work was finished at this camp during the year, the barn, blacksmith shop, and outbuildings, costing \$1,601.26, making a total expenditure of \$1,828.58. \$225.33 was spent last Fall driving the well. The crew from Camp No. 1 was moved to Camp No. 6 on December 30th, 1933.

CORDWOOD:

Contractor Lahti loaded cordwood cut by the choppers from Camp No. 2 until August 27th when he moved his crew to Camp No. 4, taking down one of the camp buildings from Camp No. 2 and rebuilding it at Camp No. 4. He finished loading the cordwood on November 22nd and started to cut chemical logs for shipment to the Furnace.

The cutting of cordwood during the year was very unsatisfactory owing to the poor class of choppers we were able to get, few of them averaging over one cord of wood per man per day. The choppers varied from 40 to 50 men during the first part of the year to a peak of 75 to 80 men in May, dropping down to only 7 men in October when we stopped them as they did not cut enough wood to warrant continuing. All cordwood produced by the choppers during the year was scaled by me and also all cars of cordwood delivered to the Furnace were scaled by me at Marquette.

OPERATION NO. 196:

Grading for track was started on this operation in July with a crew of three men and one team and continued to November 13th with 12 men, 2 teams, and 1 loader, when work was stopped due to heavy snow. They graded a total of 3.10 miles of main line and 2.56 miles spur track and 1.45 miles of steel were laid on the main line.

Charts showing the monthly cost, average for the year, and chart showing average feet of logs produced per man per day; also maps showing the area logged and the new #196 Job are attached to this report.

EXPERIMENTAL CUTTING - 154 OPERATION:

In making a study of Article X of the Lumber Code to see how it might affect the Company's future cuttings, we considered it advisable to go into this in a very thorough manner from the practical standpoint. We therefore measured off five different acre plots in our present cuttings and have counted, calipered, and measured all

of the trees on these acres at diameter breast high and then cut the material on our present basis of cutting, keeping a count of the exact products from each tree, and we attach a statement giving the result of this experiment.

OPERATION #154:

<u>SAW LOGS, TIE CUTS</u> Inventory, Dec. 31, 1933 Shipments, 1933 Total Less Inventory, Jan. 1, 1933 Produced during 1933 Area Cut - Acres Yield Per Acre	628,322 ft. 12,449,401 " 13,077,723 " 477,512 " 12,600,201 " 1,840 " 6,848 ft.
<u>CHEMICAL LOGS</u> Inventory, Dec. 31, 1933 Shipments, 1933 Total Less Inventory, Jan. 1, 1933 Produced during 1933 Area Cut - Acres Yield Per Acre	140,800 ft. 15,580,601 " 15,721,401 " 791,059 " 14,930,342 " 2,040 " 7,313 ft.
<u>RETURNS</u> Gross Returns - Logs, Tie Cuts & Chemical Logs Less Total Operating Cost Profit Total Returns Per Acre All Products Saw Logs and Tie Cuts Chemical Logs	\$280,211.57 193,075.58 87,135.99 \$ 47.35 45.8% 54.8%
<u>CORDWOOD</u> Inventory, Jan. 1, 1933 Production Total Shipments, 1933 Inventory, Dec. 31, 1933 Less Shortage on 1933 Cordwood Inventory, Dec. 31, 1933	1,867.75 cds. 10,299.00 " 12,166.75 " 11,960.90 " 205.85 " 205.85 " None

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THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

RECORD OF CUTTINGS 154 OPERATION - STARTED SEPTEMBER, 1926 - STILL WORKING

	1930	1931	1932	1933
Acres Cut	1,345	1,560	2,550	1,840
Tax Per Acre			\$.189	\$.097
Board Feet Log Timber Estimated by Cruiser	6,306,000	9,639,000	15,246,000	10,646,240
Cruiser's Estimate per Acre	4,688	6,178	5,978	5,786
Board Feet Logs, Tie & Mining Timber Removed	6,890,296	10,351,636	17,283,492	12,600,201
Yield per Acre Removed	→ 6,610	6,636	6,778	6,848
Balance Board Feet Remaining			24,084,000	11,483,799
Cordwood - Cruiser's Estimate on Acreage Cut Over - Cds.	20,200	21,400	38,250	27,600
Estimate Cords per Acre	15	14	15	15
Production - Cords Cut	29,227	10,584	14,397 (1)	47,625
Cords per Acre Cut	21	20(2)	21 (3)	19
Balance Cords Chemical Wood Remaining			98,540	27,000
Gross Returns - Logs, Tie Cuts, Chemical Wood, & Mining Timber	\$252,316.38	\$221,453.98	\$301,596.94	\$280,211.57
Less Operating Expenses & Depreciation - (6)	128,052.95	137,519.35	143,182.33	193,075.58
Returns	124,263.43	83,934.63	158,414.61	87,135.99 (5)
Returns per Acre All Products	92.38	53.80	62.12	47.35
Saw Logs, Tie Cuts & Mine Timber	43%	87% (4)	84%	45.8%
Chemical Logs	57%	13%	16%	54.2%
Avg. Selling Price Per M Ft. Logs and Mine Timber	\$ 26.29	\$ 18.71	\$ 16.79	\$ 16.11
Avg. Selling Price Per M Ft. Ties	33.14	30.43	16.27	14.85
Avg. Selling Price Per M Ft. Chem. Logs	12.27	14.36 ✓	5.00	5.58
Cost per M Feet Logs & Mine Timber	\$ 12.27	\$ 10.86	\$ 7.05	\$ 7.29
" " " " Ties (incl. Tie Mill)	19.26	15.80	7.66	9.86
" " " " Chemical Logs	12.27	14.36 ✓	4.73	5.55
No. Ties Sold - Pcs.	166,075	56,775	221,223	163,324
Returns per Tie - Profit	\$.302	\$.28	\$.23	\$.19

(1) This includes 3,695 cords of wood furnished to people of Marquette, Gwinn and Munising.

(2) Chemical Wood Cut on only 530 acres.

(3) Chemical Wood Cut on only 670 acres. ✓

(4) Furnace Operated 5 months.

(5) No Stumpage charge for chemical in 1933.

(6) Depreciation charged \$ 30,437.20 \$ 23,112.41 \$ 15,487.07 \$ 10,458.05

RAB&WGL:MD-3.
2/16/34.

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT SHOWING DELIVERIES OF MAPLE, BIRCH AND BEECH SAW TIMBER AND MAPLE, BIRCH AND BEECH TIES WITH TOTAL STUMPAGE RECOVERY FROM EACH FOR YEAR 1933.

SAW TIMBER	DELIVERIES			OPERATING COST		TOTAL RECOVERY	
	Quantity-Feet	Per M Ft.	Amount	Per M Ft.	Amount	Per M Ft.	Amount
Maple Woodsrun	2,478,092	\$ 15.82	\$39,211.74	\$ 7.29	\$18,065.29	\$ 8.53	\$21,146.45
Maple Woodenware	293,175	15.23	4,466.96	7.29	2,137.25	7.94	2,329.71
Maple Bowl	829,239	19.52	16,188.80	7.29	6,045.15	12.23	10,143.65
Maple Veneer	18,901	20.10	380.32	7.29	137.79	12.81	242.53
Maple Birdseye	27,765	40.00	1,110.60	7.29	202.40	32.71	908.20
Total Maple Saw Timber	3,647,172	16.82	61,358.42	7.29	26,587.88	9.53	34,770.54
Maple Mine Timber	264,614	20.07	5,310.60	7.29	1,929.04	12.78	3,381.56
Total Maple	3,911,786	17.04	66,669.02	7.29	28,516.92	9.75	38,152.10
Birch Woodsrun	2,750	14.00	38.50	7.29	20.05	6.71	18.45
Birch Woodenware	128,357	15.04	1,931.22	7.29	935.72	7.75	995.50
Birch Bowl	166,480	18.73	3,117.93	7.29	1,213.64	11.44	1,904.29
Birch Veneer	354,005	24.65	8,727.02	7.29	2,580.70	17.36	6,146.32
Birch Veneer - 18 ft. - 17" & up	4,340	28.00	121.52	7.29	31.64	20.71	89.88
Total Birch	655,932	21.25	13,936.19	7.29	4,781.75	13.96	9,154.44
Beech	1,303,570	12.84	16,732.96	7.29	9,503.02	5.55	7,229.94
Grand Total Saw Timber	5,871,288	16.58	97,338.17	7.29	42,801.69	9.29	54,536.48
HARDWOOD TIES							
Hardwood Ties	6,110,282	12.09	73,885.54	9.51	58,070.45	2.58	15,815.09
Hardwood Slabs (6,245.25 cds.)	6,110,282	2.76	16,853.66	.35	2,144.32	2.41	14,709.34
Total	6,110,282	14.85	90,739.20	9.86	60,214.77	4.99	30,524.43
Grand Total Logs, Mine Timber & Ties	11,981,570	15.70	188,077.37	8.60	103,016.46	7.10	85,060.91

	SAW TIMBER	FEET	PERCENT
Maple	3,647,172	3,647,172	30.4
Birch	655,932	655,932	5.5
Beech	1,303,570	1,303,570	10.9
Total	5,606,674	5,606,674	46.8
Maple Mine Timber	264,614	264,614	2.2
Hardwood Ties	6,110,282	6,110,282	51.0
Grand Total	11,981,570	11,981,570	100.0

SUMMARY YEARS 1927, 1928, 1929, 1930, 1931, 1932, AND 1933.

SAW TIMBER	SALES VALUE PER M FEET							OPERATING COST PER M FEET							TOTAL STUMPAGE RECOVERY PER M FEET						
	1933	1932	1931	1930	1929	1928	1927	1933	1932	1931	1930	1929	1928	1927	1933	1932	1931	1930	1929	1928	1927
Maple	\$16.82	\$17.22	\$20.50	\$27.21	\$28.15	\$26.73	\$27.49	\$ 7.29	\$ 7.08	\$10.52	\$12.15	\$14.55	\$13.49	\$12.45	\$ 9.53	\$10.14	\$ 9.98	\$15.06	\$13.60	\$13.24	\$15.04
Birch	21.25	17.83	21.65	36.50	54.79	34.90	34.70	7.29	7.08	10.52	12.15	14.55	13.49	12.45	13.96	10.75	11.13	24.35	40.24	21.40	22.25
Beech	12.84	14.39	16.77	26.00	26.04	24.54	16.39	7.29	7.08	10.52	12.15	14.55	13.49	12.45	5.55	7.31	6.25	13.85	11.49	11.05	3.94
Total	16.41	16.92	20.28	28.61	32.20	28.43	27.82	7.29	7.08	10.52	12.15	14.55	13.49	12.45	9.12	9.84	9.76	16.46	17.65	14.94	15.37
MINE TIMBER																					
Maple	20.07		19.47	18.41				7.29			13.72	10.80		12.78			5.75	7.61			
Birch			19.47	18.41							13.72	10.80					5.75	7.61			
Beech			19.47	18.41							13.72	10.80					5.75	7.61			
HARDWOOD TIES																					
Hardwood Ties	12.09	12.97	25.08	28.61	28.15	28.18	28.21	9.51	7.48	15.74	18.54	20.94	18.93	16.95	2.58	5.49	9.34	10.07	7.21	9.25	11.26
Hardwood Slabs	2.76	3.30	5.35	4.72	4.91	5.18	5.21	.35	.23	.51	.75	.81	.86	.72	2.41	3.07	4.84	3.97	4.10	4.32	4.49
Total	14.85	16.27	30.43	33.33	33.06	33.36	33.42	9.86	7.71	16.25	19.29	21.75	19.79	17.67	4.99	8.56	14.18	14.04	11.31	13.57	15.75
Grand Total	15.70	16.56	21.38	29.68	32.58	30.85	30.16	8.60	7.43	11.38	14.52	17.73	16.58	14.64	7.10	9.13	10.00	15.16	14.85	14.27	15.54

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

OPERATION NO. 154 OPERATING, COMPARED WITH ESTIMATES

COMMODITY	UNIT OF SCALE	Q U A N T I T Y				OVER & UNDER	UNIT OPERATING COSTS	
		ACTUAL PRODUCTION	ACTUAL SHIPMENTS	ESTIMATED SHIPMENTS	ACTUAL		ESTIMATED	OVER & UNDER
Chemical Logs	Ft.B.M.	14,930,342	15,580,601	6,500,000	9,080,601	5.554	5.999	.445
Saw Logs	Do.	6,701,889	6,323,789	3,107,857	3,215,932	7.297	7.463	.166
Tie Cuts	"	5,898,321	6,125,612	4,005,244	2,120,368	7.084	7.463	.379
Cordwood	Cords	10,093.15	11,960.90	6,000	5,960.90	2.123	2.174	.051
Hemlock Ties	Pcs.	922	922	None	922	.260	None	-

Camp 154-1 operated for logging during the entire year.

Camp 154-2 operated during period of Jan. 1st, to Aug. 30th, for cordwood chopping, hauling, and loading and also for chemical logs by Contractor Armo Lahti.

Camp 154-4 operated during period of Aug. 31st to Dec. 31st for chopping, hauling, and loading of cordwood and also for chemical logs, by Contractor Armo Lahti.

Camp 154-5 operated during period of Jan. 1st to Jan. 27th, and June 16th to Dec. 31st for logging.

Overrun in cordwood and chemical log shipments is on account of the Furnace requirements being greater than was originally estimated.

Overrun in the shipments of saw logs due to increase in the shipments to Piqua Handle & Mfg. Co. than was originally estimated.

Overrun in the tie cut shipments to the Tie Mill due to securing 75,000 tie contract from Chicago Great Western Railroad Company which was not contemplated in making up the estimates for the year.

Underrun in the costs due to heavier operating than was contemplated when making up the estimates and also to increased efficiency.

TAA:MD-3.
1/20/34.

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

RATE OF WOODS WAGES IN EFFECT DURING VARIOUS PERIODS OF 1933 AND 1932.

CLASSIFICATION	1 9 3 3		1 9 3 2	
	JAN. 1ST, TO AUG. 31ST, 1933	AUG. 22ND, TO DEC. 31ST, 1933	JAN. 1ST, TO FEB. 28TH, 1932	MAR. 1ST, TO DEC. 31ST, 1932
LOGGING				
Teamsters	\$16.00 & Brd. Per Mo.	\$.29 Per Hour	\$26.00 & Brd. Per Mo.	\$16.00 & Brd. Per Mo.
Swampers	12.00 Do.	.27 Do.	20.00 Do.	12.00 Do.
Roadmen	12.00 "	.27 "	20.00 "	12.00 "
Common Labor	12.00 "	.27 "	20.00 "	12.00 "
Tractor Driver	55.00 "	.50 "	75.00 "	55.00 "
LOG LOADERS				
Engineers	60.00 "	.50 "	75.00 "	60.00 "
Top Loaders	18.00 "	.30 "	30.00 "	18.00 "
Hookers	16.00 "	.29 "	26.00 "	16.00 "
Handymen	16.00 "	.29 "	26.00 "	16.00 "
LOCOMOTIVE				
Engineers	4.00 Per Day	.60 "	5.50 Per Day	4.00 Per Day
Firemen	3.00 Do.	.47 "	3.50 Do.	-
Brakemen	3.50 "	.53 "	5.00 "	3.50 Do.
Second Brakemen	-	-	3.25 "	-
Night Watchman	45.00 "	.31 "	3.00 "	45.00 Per Mo.
MISCELLANEOUS				
Blacksmiths	40.00 & Brd. Per Mo.	.40 "	75.00 & Brd. Per Mo.	40.00 & Brd. Per Mo.
Barn Bosses	20.00 Do.	.31 "	40.00 Do.	20.00 Do.
Cooks	70.00 "	90.00 & Brd. Per Mo.	75.00 "	70.00 "
Cookees	20.00 "	40.00 Do.	30.00 "	20.00 "
Choremen	16.00 "	36.00 "	26.00 "	16.00 "
Track Foreman	35.00 "	76.00 "	50.00 "	35.00 "
Track Repairmen	12.00 "	.27 Per Hour	20.00 "	12.00 "
Camp Watchman	16.00 "	-	50.00 "	16.00 "
PIECEWORK:				
Railway Construction:				
Lifting Railway Steel-Inc.Ties. (Lin.Ft.)	.02	.03	.03	.02
Laying Railway Steel -Inc.Ties. Do.	.025	.04	.04	.025
Grading (1 ft. Cut & fill) "	.05	.075	.07	.05
Grading (Yardage) (Per Yard)	.15	.23	.24	.15
Sawing Logs, etc.:				
12 ft. long, over 10" diameter Each	.06	.10	.08	.06
14 ft. " " 10" " "	.07	.12	.10	.07
16 ft. " " 10" " "	.08	.14	.12	.08
12 ft. " 8 to 10" " "	.03	.10	.05	.03
14 ft. " 8 to 10" " "	.035	.12	.06	.035
16 ft. " 8 to 10" " "	.04	.14	.07	.04
Tie Cuts	.04	.07	.07	.04
Chemical Logs	.04	.07	.07	.04
CO EDWOOD:		8/22 to 10/31 11/1 to 12/31		
Chopping Per Cord	.75	1.25 .75	1.25	.75

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

COST OF MAINTAINING HORSES AND EQUIPMENT PER TEAM DAY WORKING,
AS COMPARED WITH 1932, 1931 AND 1930.

Total Cost of Maintaining Horses & Equipment, per Dec. 1933 Cost Sheet	\$19,499.80
Total working hours on which above expense is distributed to costs	170,567
Cost per team day of 10 hours - Year 1933	2.286
Cost per team day of 10 hours - Year 1932	2.155
Cost per team day of 10 hours - Year 1931	3.727
Cost per team day of 10 hours - Year 1930	4.512

OPERATING LOG LOADERS

Showing data on log loaders for 1933, compared with 1932, 1931 and 1930.

	DAYS LOADING	CARS LOADED	FEET LOADED	TOTAL COST	CARS PER DAY	COST PER CAR	COST PER M	FEET PER CAR
Operation #154 Logs and Tie Cuts Only	838.8	5560	26,893,079	\$13,394.54	6.63	2.409	.498	4837
Year 1932	575.9	3114	19,748,261	6,673.86	5.41	2.143	.338	6342
Year 1931	621.6	3838	19,391,176	13,520.47	6.17	3.523	.697	5052
Year 1930	961.7	6377	29,463,367	26,928.09	6.63	4.223	.914	4620

TAA:MD-3.
1/22/34.

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

COOK CAMPS

Operated two cook camps eight months and one cook camp four months during 1933.

	1933	1932
Total Meals Served	126,435	85,236
Total Operating Cost	\$19,258.97	\$11,234.76
Cost Per Meal	.152	.132
Amount of Board Collected	16,210.29	3,831.99
Amount Taken up in Operating Costs	6,370.71	3,831.99
Profit (9/1/33 to 12/31/33)	3,322.03	-

Previous to August 22nd, 1933, the cost of operating, less collections, was taken up in the operating cost items. Since the NRA rate of wages went into effect, board is collected from the employees at a rate of 80¢ per day.

VAN PROFITS

The profit from Van sales amounted to \$387.53, as compared with \$207.73 in 1932.

The increase in the profit due to larger volume of sales of men's furnishings during the last three months at a greater profit.

TAA:MD-3.
1/22/34.

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT SHOWING RAILWAY CONSTRUCTION WORK DONE DURING 1933 AND
CONSTRUCTION AND COST TO DATE AT OPERATIONS THAT REMAIN UNFINISHED
AS OF DECEMBER 31ST, 1933.

	1933 (MILES)	TOTAL TO DATE (MILES)	1933 COST PER MILE	COST PER MILE TO DATE
<u>OPERATION #119 AUXILIARY SPURS</u>				
Graded		51.37		\$1,053.99
Steel Laid		50.68		1,314.56
Steel Lifted		47.71		431.01
Average Cost per Mile - Completed Track				2,611.87
<u>OPERATION #119 MAIN LINE</u>				
Graded		18.03		2,052.34
Steel Laid		18.09		4,127.90
Steel Lifted		18.07		312.00
Average Cost per Mile - Completed Track				6,603.49
<u>OPERATION #154 AUXILIARY SPURS</u>				
Graded	11.32	87.28	491.74	786.20
Steel Laid	16.34	73.81	353.68	624.12
Steel Lifted	14.19	48.58)	145.50	206.76
Steel Lifted - Other Spurs		32.97)		
Average Cost per Mile - Completed Track			990.92	1,617.08
<u>OPERATION #154 - MAIN LINE</u>				
Graded		11.14		1,155.53
Steel Laid		11.26		1,517.16
Steel Lifted		2.34)		253.39
Steel Lifted - Other Spurs		7.78)		
Average Cost per Mile - Completed Track				2,926.08
<u>OPERATION #196 - AUXILIARY SPURS</u>				
Graded	2.56	2.56	782.98	782.98
<u>OPERATION #196 - MAIN LINE</u>				
Graded	3.10	3.10	810.41	810.41
Steel Laid	1.45	1.45	771.61	771.61
Steel Lifted - Other Spurs	2.00	1.99	145.75	145.75
Average Cost per Mile - Completed Track			1,727.77	1,727.77
<u>LIFTED FROM SPUR #159 AND RETURNED TO L.S. & I. R. R.</u>				
	2.50			

RECAPITULATION OF RAILWAY CONSTRUCTION WORK DURING 1933 COMPARED WITH 1932.

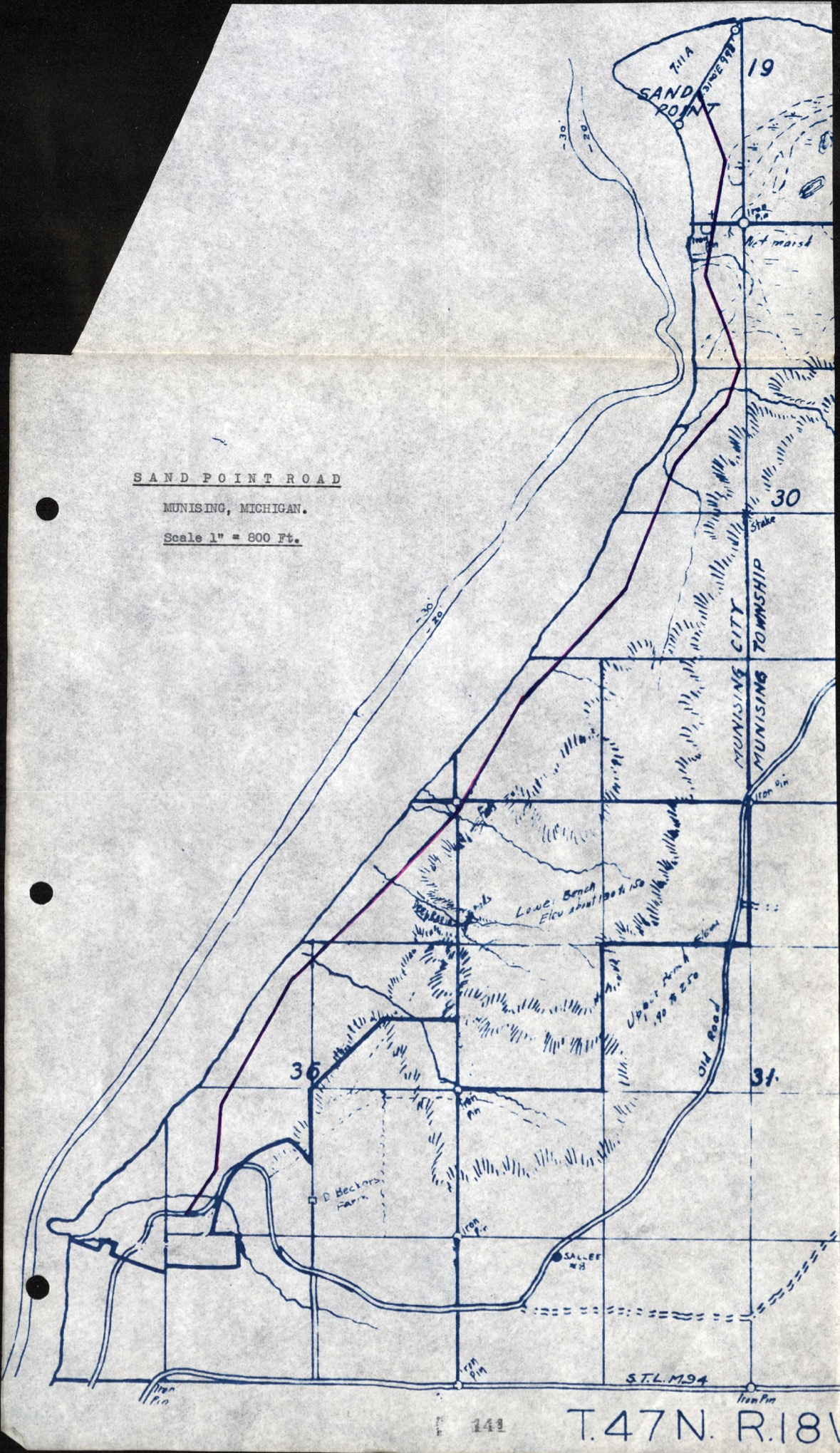
	1933 MILES	1932 MILES	1933 COST PER MILE	1932 COST PER MILE
Graded	16.98	9.88	593.83	403.66
Steel Laid	17.79	15.45	387.74	299.69
Steel Lifted	18.69	15.00	138.32	110.14
TOTAL COST PER MILE			1,119.89	813.49

TAA:MD-3.
1/22/34.

SAND POINT ROAD

MUNISING, MICHIGAN.

Scale 1" = 800 Ft.



T.47N. R.18W

EXPERIMENTAL FOREST

LAKE STATES FOREST EXPERIMENT STATION RUSE MICH.

NORTH 1/2 SECTION 35 T. 46 N. R. 23 W.

SCALE 0 100 200 300 400 500 600 700 800 900 1000 1100 1200

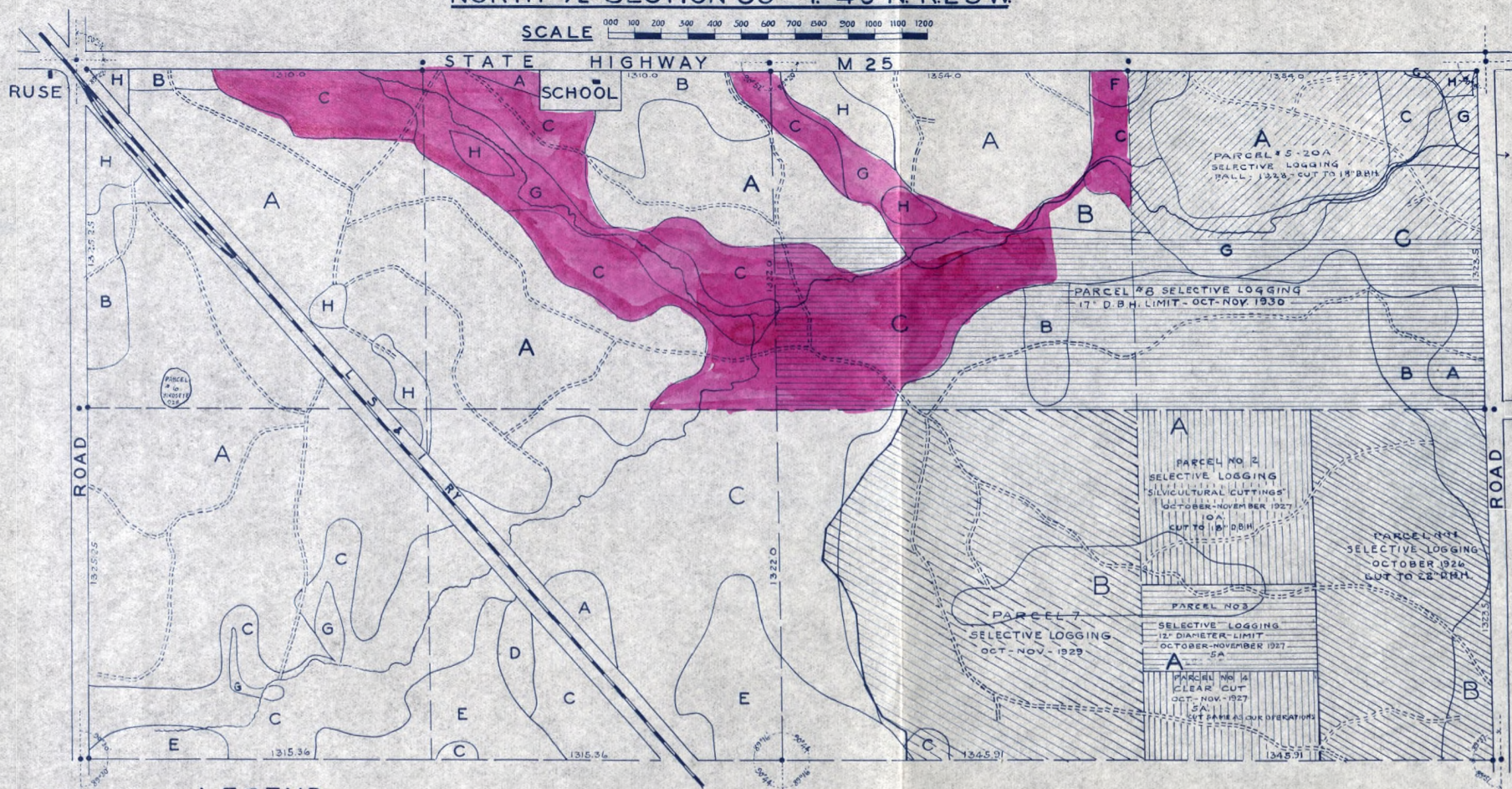
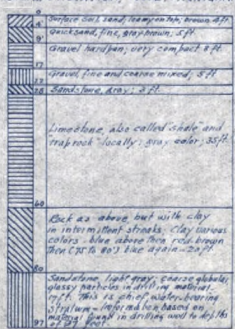


DIAGRAM OF UNDERLYING SOIL AT U.S. EXPT. STATION, RUSE, MICHIGAN.



LEGEND

HARDWOODS		HARDWOOD CONIFERS	HEMLOCK HARDWOODS	CONIFEROUS SWAMP	SECOND-GROWTH HARDWOODS	ALDER SWAMP	OPEN
A	B	C	D	E	F	G	H
HEAVY	LIGHT						
AVERAGE STAND PER ACRE GROSS							
13.2M	5.3M	8.1M	16.3M	6.2M			
AREA - ACRES							
1770	23.0	75.0	1.0	12.0	0.6	14.0	4.0

ESTIMATE OF TIMBER

	HARDWOOD				SOFTWOOD				PULPWOOD				MISCELLANEOUS				TOTAL #	TOTAL PER ACRE
	BIRCH	MAPLE	ELM	WASP	ASH	HEMLOCK	PINE	SPRUCE	BALSAM	CEDAR	TAMARACK	BALSAM CD	SPRUCE CD	HARDWOOD CD	CEDAR POSTS	CEDAR TIES		
HOWIE 1913	255,000	1,635,000			58,000	13,000	14,000	22,000		120,000		200	15	6900	6900	5000	375	
LOWNEY 1926	175,000	1,880,000	3,000		7,000	10,000	15,000	7,000	5,000	2,000		75	50	4500	2000	1700	360	9700
GOV'T 1926	423,400	2,021,500	19,300	4,000	30,900	21,700		43,000	24,100	271,200								

NOTE: IN LOWNEY'S ESTIMATE PULPWOOD AND MISCELLANEOUS PRODUCTS WERE REDUCED TO 4-FT. AS FOLLOWS: PULPWOOD 50,000 FT CEDAR POST 10,000 FT CEDAR TIES 54,400 CEDAR POLES 1800 FT HARDWOOD TIES 210,000 FT OR A TOTAL OF 442,400 FT ALSO 50,000 FT OF BIRDSEYE MAPLE WAS INCLUDED IN MAPLE ESTIMATES.

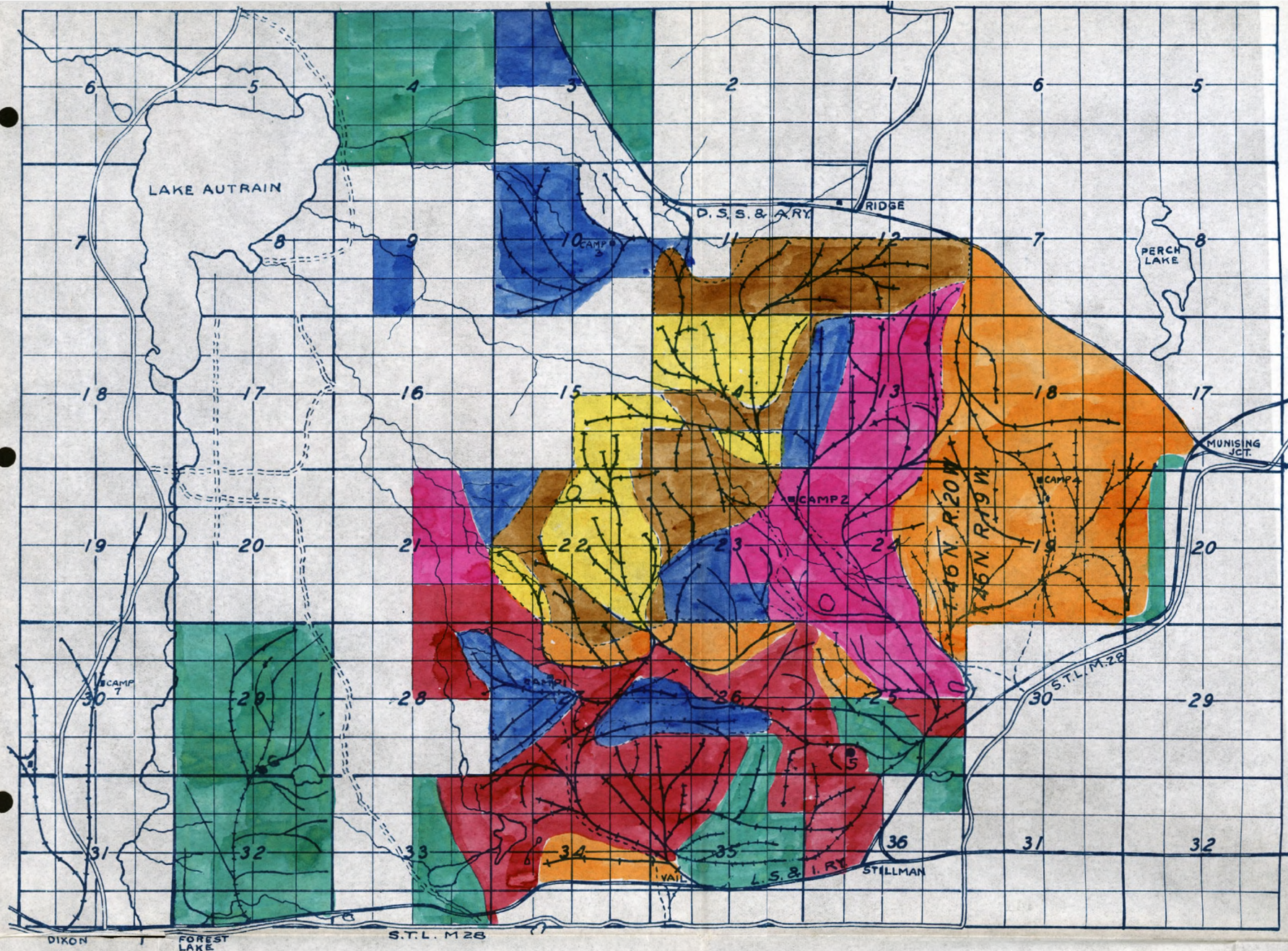
CUT 1933 & 1934

LAKE STATES FOREST EXPERIMENT STATION DUKES, MICH.
NORTH 1/2 SECTION 35 T. 46 N. R. 23 W.

SCALE AND COUNT OF ACRE PARCELS AFTER CUTTING.

PLOT #8 SELECTIVE CUTTING TO 17" - 4 ACRES COUNTED FALL 1930								PLOT NO 2 - SELECTIVE CUTTING TO 18" 2 ACRES. FALL 1927					PLOT NO 5 - CUT 18" 1 Acre Counted FALL 1928			PLOT #1 CUT 22" 1 Acre Conn Ted FALL 1926			
Diameter BH.	1st Acre No Trees	2nd Acre No Trees	3rd Acre No Trees	4th Acre No Trees	Total	Average Acre No Trees	Acre Bd ft.	Diameter BH.	1st Acre No Trees	2nd Acre No Trees	Total	Average Acre No Trees	Acre Bd ft.	Diameter BH.	No. Trees	Bd ft.	Diameter BH.	No. Trees	Bd ft.
2	26	21	18	19	84	21.00		2	18	22	40	20		2	14		2	12	
3	15	14	17	16	62	25.50		3	14	12	26	13		3	18		3	13	
4	6	10	12	11	39	9.75		4	6	8	14	7		4	19		4	27	
5	4	6	4	5	19	4.75		5	9	4	13	6.5		5	11		5	9	
6	7	7	8	9	31	7.75		6	4	3	7	3.5		6	9		6	8	
7	8	7	8	9	32	8.00		7	5	2	7	3.5		7	11		7	9	
8	6	8	6	8	28	7.00		8	4	3	7	3.5		8	13		8	12	
9	4	5	4	3	16	4.00		9	6	8	14	7		9	8		9	5	
10	4	3	4	1	12	3.00	150	10	2	3	5	2.5	150	10	4	200	10	3	150
11	2	1	1	1	5	1.25	75	11	1	2	3	1.5	90	11	6	450	11	5	375
12	4	5	4	6	19	4.75	475	12	6	5	11	5.5	550	12	5	475	12	7	665
13	3	2	4	5	14	3.50	390	13	4	3	7	3.5	330	13	7	770	13	4	440
14	5	—	5	7	17	4.25	720	14	7	2	9	4.5	675	14	4	600	14	3	450
15	2	6	4	1	13	3.25	540	15	4	3	7	3.5	630	15	2	360	15	4	720
16	6	1	3	1	11	2.75	450	16	2	2	4	2	390	16	4	780	16	2	390
17	1	7	1	1	10	2.50	390	17	1	1	2	1	225	17	—		17	1	225
18	2	3	2	2	9	2.25	440	18	2	1	3	1.5	400	18	3	795	18	2	480
19	3	2	4	2	11	2.75	530	19	—	—	—	—	—	19	—		19	1	305
20	—	1	1	3	5	1.25	300	20	2	—	2	1	325	20	1	325	20	2	650
21	1	—	—	1	2	0.5	160	21	—	—	—	—	—	21	—		21	—	
22	—	1	1	—	2	0.5	175	22	—	1	1	0.5	200	22	—		22	—	
TOTAL TIMBER REMAINING ON LAND						60%	4795					45%	3965		68%	4755		68%	4850
" " CUT							40%	3067				55%	4844		32%	2214		32%	2258
" " ON ORIGINAL STAND							100%	7862				100%	8809		100%	6969		100%	7108
NET RETURNS PER ACRE							* 43.11					* 92.97		* 3326					* 44.21

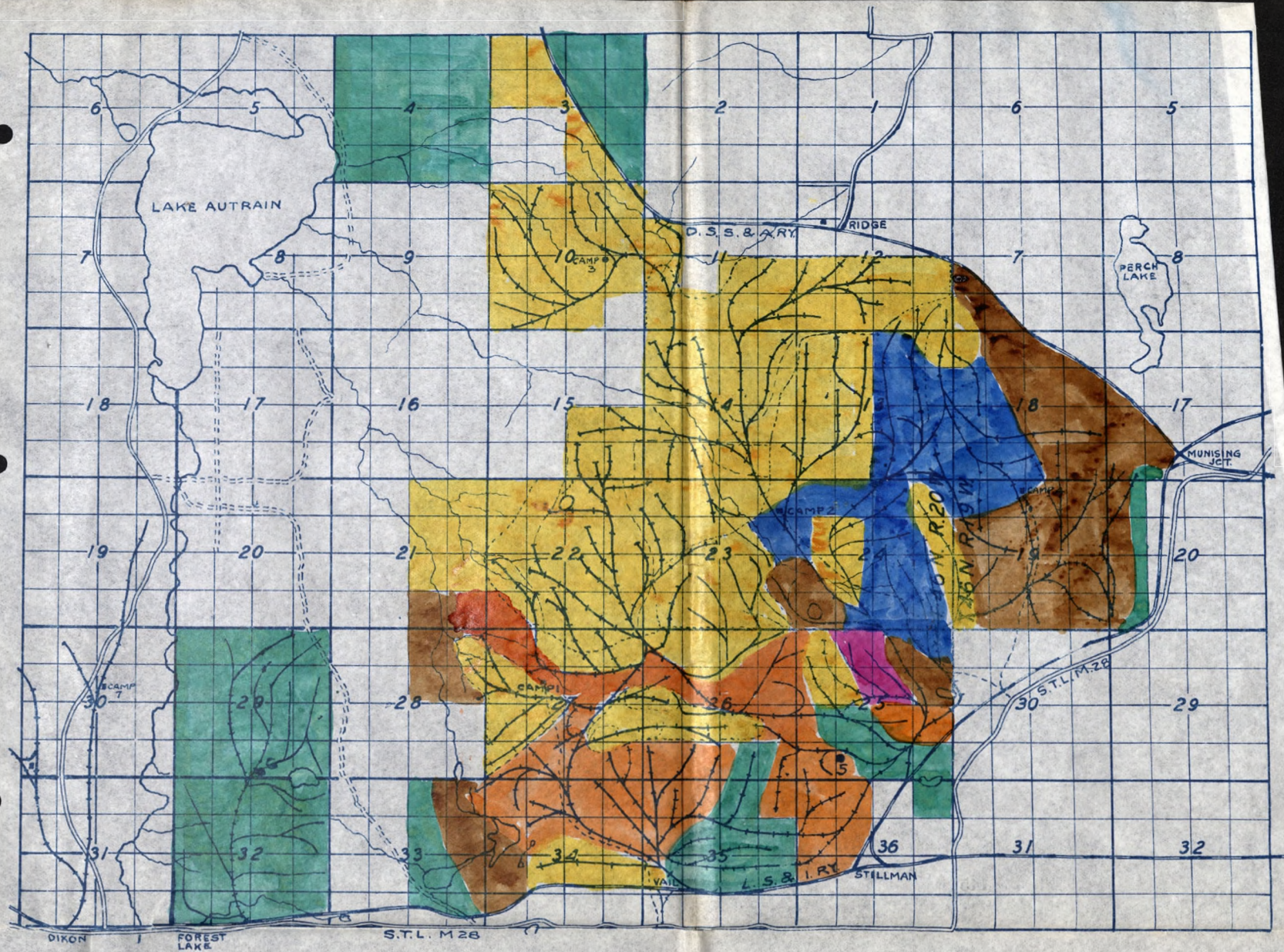
1/2/34
R.A.S.



OPERATION 154

LEGEND

- Timber Standing.
- Timber Cut 1928 - Acres Cut 930 - yield Sawlogs 5,812 Bd.Ft.
- Timber Cut 1929 - Acres Cut 1145 - yield Sawlogs 5,682 Bd.Ft.
- Timber Cut 1930 - Acres Cut 1345 - yield Sawlogs 6,610 Bd.Ft.
- Timber Cut 1931 - Acres Cut 1560 - yield Sawlogs 6,636 Bd.Ft.
- Timber Cut 1932 - Acres Cut 2550 - yield Sawlogs 6,778 Bd.Ft.
- Timber Cut 1933 - Acres Cut 1940 - yield Sawlogs 6,848 Bd.Ft.



OPERATION 154

LEGEND

- Timber Standing.
- Chemical Wood Cut.
- Sawlogs, Tie Cuts Cut - Chemical Wood Standing.
- Cortwood Cut during 1933.
- Chemical Logs Cut during 1933.
- All Logs, Tie Cuts and Chemical Logs Cut during 1933.

OPERATION 154

LOGGING COST PER ~~M~~ FEET



THE CLEVELAND CLIFFS IRON CO.

LAND DEPARTMENT

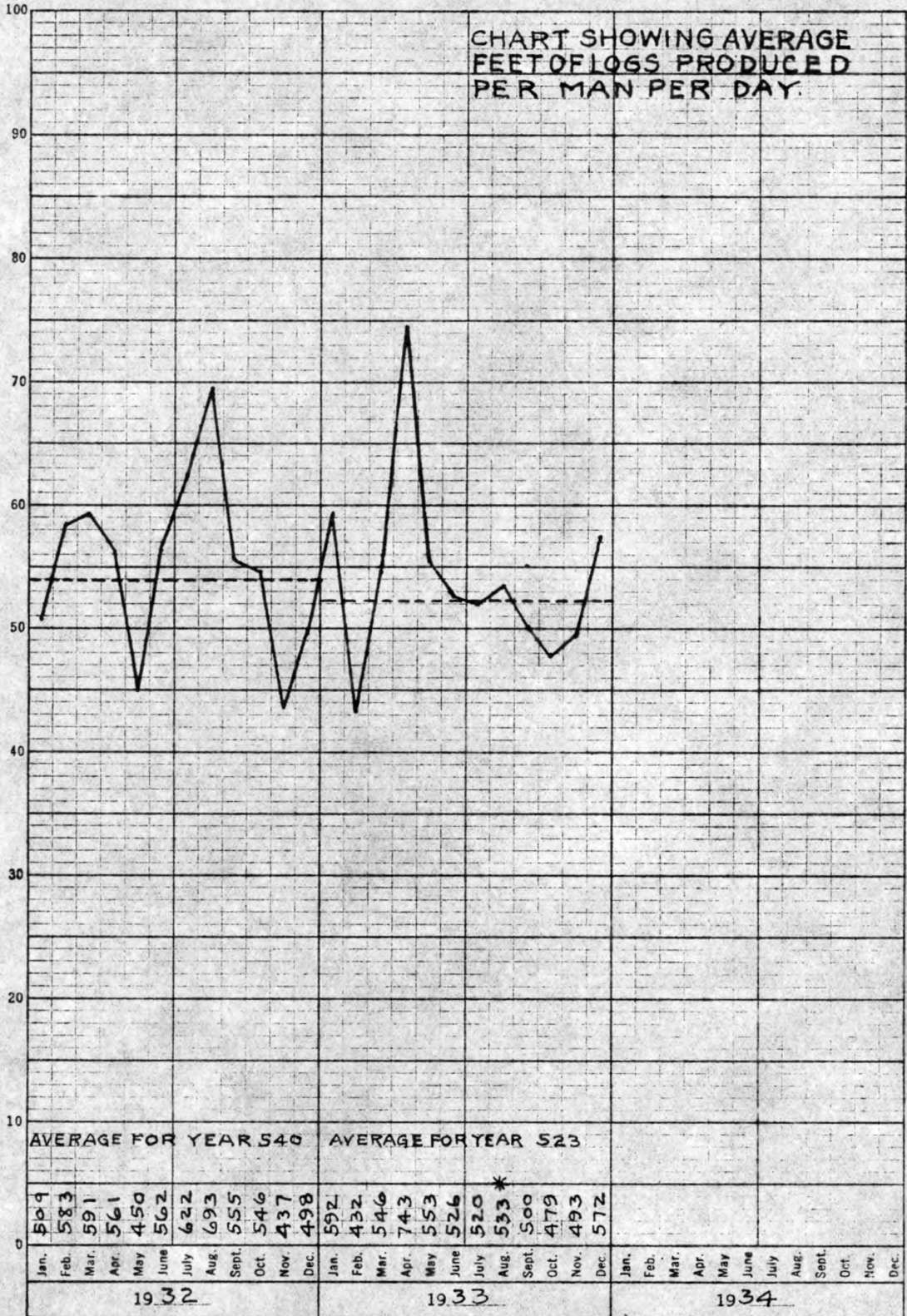
LOGGING OPERATION 196

MATERIAL	UNIT	TIMBER ESTIMATE	PERCENT OF SPECIE
MAPLE,	Ft.	34 274	6.758
BIRCH,	"	6 378	12.57
BASSWOOD,	"	105	.20
BEECH,	"	3 933	7.75
ASH,	"	104	.20
ELM,	"	3 315	6.52
CHERRY,	"		
OAK,	"		
HARDWOOD TIES,	"		
TOT. HARDWOOD SAWLOGS,	"		
FURNACE LOGS,	"		
TOTAL HARDWOOD,	"	48 109	94.82
HEMLOCK,	"	2 006	3.95
WHITE PINE,	"	203	.40
SPRUCE,	"	192	.20
BALSAM,	"	45	.08
TAMARACK,	"	57	.11
CEDAR,	"	228	.44
SOFTWOOD TIES,	"		
TOTAL SOFTWOOD,	"	2 641	5.18
TOTAL LOGS,	"	50 750	100.00
CEDAR TIES,	Pcs.	16 225	
CEDAR TIE CUTS,	"		
HEMLOCK TIES,	"	925	
TAMARACK TIES,	"		
HARDWOOD TIES,	"		
TOTAL TIES,	"	17 150	
CEDAR POSTS,	"	3 700	
" POLES,	"	3 785	
PULPWOOD SPRUCE,	CWS	12 54	
" BALSAM,	"	1 311	
" HEMLOCK,	"	993	
" TOTAL,	"	3 549	
HARDWOOD,	Cds.	11 5925	
BARK,	"		
SWITCH TIES,	Set		
LAGGING, 5'	Cds.	2 55	
" 7'-8'	Lin. Ft.		
STULLS,	"		
TOTAL ACRES,		6 951.19	
ACRES STANDING,			
" CUT,			
LOG TIMBER PER ACRE	FT.	7,301	

GREEN PROPOSED LOGGING OPERATION #196

--- STEEL LAID
 --- GRADED





* N.R.A. CODE IN EFFECT AUGUST 19-1933

KEUFFEL & ESSER CO., N. Y. NO. 369-180
Three Years by Months.

ACRE NO. 1

Diameter of trees B.H.	Total trees on Land Before Cutting	Total trees cut	Total trees not cut	Sawlogs, Tie Cuts, Mng. Timber				Chemical Logs.				Total Sawlogs, Tie Cuts, Mng. Timber, Chem. Logs.				Chemical Logs from Tops	Defective trees.	
				Bd. ft.	Accumulated Bd. ft.	%	Accumulated %	Bd. ft.	Accumulated Bd. ft.	%	Accumulated %	Bd. ft.	Accumulated Bd. ft.	%	Accumulated %		Number	Bd. ft.
2	15		15															
3	8		8															
4	15		15															
5	3	2	1															
6	4	3	1															
7	2	2																
8	10	10						60	60	53	53	60	60	31	31		10	60
9	3	3						42	102	37	90	42	102	21	52		3	42
10	5	5		36	36	41	41	182	284	162	252	218	320	113	165	9	4	160
11	9	9		300	336	376	417	103	387	91	343	403	723	210	375	36	5	80
12	7	7		262	598	330	747	180	567	160	503	442	1165	230	605	45	2	120
13	1	1		-	-	-	-	49	616	43	546	49	1214	25	630		1	49
14	10	10		654	1252	824	1571	987	1603	880	1426	1641	2855	856	1486	200	2	160
15	3	3		140	1392	174	1745	120	1723	107	1533	280	3115	135	1621	27	1	90
16	4	4		400	1792	504	2249	799	2522	712	2245	1199	4314	625	2246	100	1	195
17	1	1		-	-	-	-	175	2697	156	2401	175	4489	92	2338	25	1	175
18	10	10		2363	4155	2976	5225	2453	5150	2187	4588	4816	9305	2513	4851	1000		
19	2	2		120	4275	151	5376	530	5680	472	5060	650	9955	340	5191	50	1	410
20	4	4		1235	5510	1555	6931	1276	6956	1138	6198	2511	12466	1310	6501	100		
21	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		
22	8	8		1740	7250	2192	9123	3268	10224	2914	9112	5008	17474	2614	9115	200		
23	1	1		72	7322	90	9213	140	10364	124	9236	212	17686	110	9225	36		
24	1	1		350	7672	440	9653	204	10568	782	9418	554	18240	290	9515	79		
25	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		
26	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		
27	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		
28	1	1		48	7720	63	9716	430	10998	383	9801	478	18718	250	9765	209		
29	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-		
30	1	1		226	7946	284	10000	224	11222	199	10000	450	19168	235	10000	125		
31																		
34																		
	128	88	40	7946	7946	10000	10000	11222	11222	10000	10000	19168	19168	10000	10000	2241	31	1541

ACRE NO. 2

Diameter of trees B.H.	Total trees on Land Before Cutting	Total trees Cut	Total trees not cut	Sawlogs, Tie Cuts, Miming Timber.				Chemical Logs.				Total Sawlogs, Tie Cuts, Miming Timber Chemical Logs				Chemical Logs from Totals.	Defective Trees	
				Bd. ft.	Accumulated Bd. ft.	%	Accumulated %	Bd. ft.	Accumulated Bd. ft.	%	Accumulated %	Bd. ft.	Accumulated Bd. ft.	%	Accumulated %		Number	Bd. ft.
2	22	14	8															
3	16	6	10															
4	8	5	3															
5	16	14	2															
6	4	4																
7	2	2																
8	9	9						90	90	81	81	90	90	47	47		9	90
9	8	8						72	162	65	146	72	162	37	84		8	72
10	4	4		40	40	49	49	70	232	63	209	110	272	57	141		1	40
11	7	7		280	320	347	396	60	292	54	263	340	612	178	319	60	—	
12	6	6		278	598	345	741	192	484	174	437	470	1082	247	566	72	1	95
13	2	2		120	718	149	890	60	544	54	491	180	1262	94	660	60	—	
14	10	10		690	1408	856	1746	810	1354	736	1227	1500	2762	778	1438	300	3	390
15	5	5		140	1548	173	1919	760	2114	691	1918	900	3662	462	1900	100	1	90
16	3	3		220	1768	273	2192	365	2479	331	2249	585	4247	306	2206	60	—	
17	2	2		100	1868	124	2316	360	2839	318	2567	450	4697	236	2452	110	—	
18	7	7		810	2678	1006	3322	1045	3884	949	3516	1855	6552	976	3428	280	—	
19	5	5		240	2918	298	3620	1285	5169	1168	4684	1525	8077	802	4230	250	2	440
20	3	3		390	3308	484	4104	585	5754	531	5215	975	9052	513	4743	150	—	
21	1	1		200	3508	248	4352	210	5964	190	5405	410	9462	215	4958	50	—	
22	7	7		1280	4788	1590	5942	1555	7519	1413	6818	2835	12297	1492	6450	280	—	
23	4	4		970	5758	1205	7147	1150	8669	1045	7863	2120	14417	1115	7565	200	—	
24	—	—		—														
25	2	2		488	6246	606	7753	732	9401	665	8528	1220	15637	642	8207	120	—	
26	1	1		200	6446	248	8001	350	9751	318	8846	550	16187	289	8496	150	—	
27	—	—		—														
28	2	2		700	7146	869	8870	700	10451	636	9482	1400	17587	736	9232	120	—	
29	—	—		—														
30	2	2		910	8056	1130	10000	570	11011	518	10000	1480	19067	778	10000	140	—	
31	—	—		—														
34	—	—		—														
	158	135	23	8056	8056	10000	10000	11011	11011	10000	10000	19067	19067	10000	10000	2502	26	1277

ACRE NO. 3

Diameter of trees B.H.	Total Trees on Land before Cutting	Total trees Cut	Total trees not cut	Sawlogs, Tie Cuts, Mng. Timber.				Chemical Logs				Total Sawlogs, Tie Cuts, Mng. Timber, chemical logs				Chemical Logs from Trees	Defective Trees	
				Bd. ft.	Accumulated Bd. ft.	%	Accumulated %	Bd. ft.	Accumulated Bd. ft.	%	Accumulated %	Bd. ft.	Accumulated Bd. ft.	%	Accumulated %		Number	Bd. ft.
2	28	16	12															
3	22	14	8															
4	7	6	2															
5	14	10	4															
6	6	6																
7	8	8																
8	7	7						63	63	62	62	63	63	35	35		7	63
9	7	7						70	133	69	131	70	133	39	74		7	70
10	7	7		72	72	96	96	215	348	212	343	287	420	163	237	70	2	100
11	5	5		150	222	202	298	155	503	153	496	305	725	174	411	50		
12	7	7		272	494	366	664	393	896	388	884	665	1390	379	790	120		
13	4	4		310	804	417	1081	130	1026	128	1012	440	1830	251	1041	100		
14	8	8		658	1462	886	1967	542	1568	535	1547	1200	3030	685	1726	200		
15	4	4		222	1684	299	2266	498	2066	491	2038	720	3750	411	2137	120		
16	4	4		430	2114	579	2845	350	2416	345	2383	780	4530	445	2582	130		
17	2	2		160	2274	215	3060	290	2706	286	2669	450	4980	257	2839	80		
18	6	6		636	2910	856	3916	954	3660	941	3610	1590	6570	908	3747	240		
19	1	1		160	3070	215	4131	145	3805	143	3753	305	6875	174	3921	40		
20	3	3		640	3710	862	4993	335	4140	331	4084	975	7850	557	4478	120		
21	3	3		680	4390	915	5908	550	4690	543	4627	1230	9080	702	5180	150		
22	4	4		875	5265	1179	7087	745	5435	735	5362	1620	10700	925	6105	200		
23	3	3		232	5497	313	7400	1358	6793	1341	6703	1590	12290	908	7013	150		
24	1	1		350	5847	471	7871	150	6943	148	6851	500	12790	285	7298	60		
25	1	1		210	6057	283	8154	400	7343	395	7246	610	13400	338	7636	60		
26	2	2		460	6517	620	8774	640	7993	632	7878	1100	14500	617	8253	140	1	550
27	-	-		-														
28	-	-		-														
29	3	3		910	7427	1226	10000	1590	9573	1569	9447	2500	17000	1428	9681	240		
30	-	-																
31	1	1						560	10133	553	10000	560	17560	319	10000	60		
34	-	-																
	168	142	26	7427	7427	10000	10000	10133	10133	10000	10000	17560	17560	10000	10000	2330	17	783

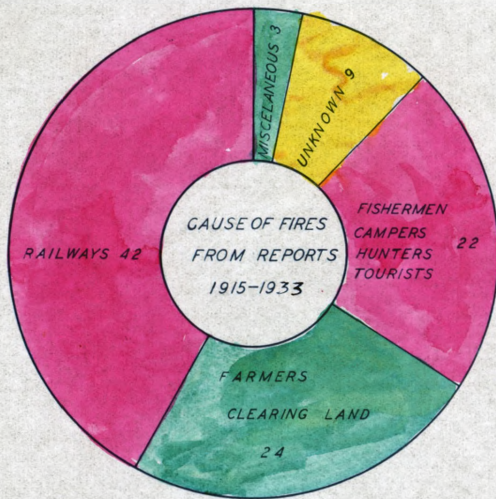
ACRE NO. 4

Diameter of trees B.H.	Total trees on Land before Cutting	Total trees cut	Total trees not cut	Sawlogs, Tie Cuts, Ming. Timber.				Chemical Logs.				Total Sawlogs, Tie Cuts, Ming. Timber, Chem. Logs.				Chemical Logs from Totals	Defective Trees		
				Bd. ft.	Accumulated Bd. ft.	%	Accumulated %	Bd. ft.	Accumulated Bd. ft.	%	Accumulated %	Bd. ft.	Accumulated Bd. ft.	%	Accumulated %		Number	Bd. ft.	
2	30	21	9	1-0															
3	14	7	7																
4	13	5	8																
5	12	8	4																
6	3	3																	
7	9	9																	
8	6	6						54	54	58	58	54	54	31	31		6	54	
9	11	11						110	164	118	176	110	164	64	95		11	110	
10	6	6		140	140	178	178	160	324	172	348	300	464	175	270	60			
11	4	4		160	300	204	382	140	464	150	498	300	764	175	445	40			
12	5	5		350	650	446	828	125	589	134	632	475	1239	277	722	50			
13	3	3		280	930	357	1185	50	639	54	686	330	1569	192	914	60			
14	9	9		640	1570	816	2001	710	1349	764	1450	1350	2919	789	1703	180			
15	2	2		218	1788	278	2279	142	1491	153	1603	360	3279	210	1913	60			
16	8	8		440	2228	562	2841	1510	3001	1625	3228	1950	5229	1140	3053	240	2	350	
17	1	1		180	2408	229	3070	45	3046	48	3276	225	5454	131	3184	40			
18	5	5		780	3188	994	4064	545	3591	587	3863	1325	6779	774	3958	120			
19	4	4		390	3578	497	4561	830	4421	893	4756	1220	7999	713	4671	80	1	265	
20	2	2		320	3898	408	4969	330	4751	355	5111	650	8649	380	5050	60			
21	-	-		-															
22	2	2		330	4228	420	5389	480	5231	517	5628	810	9459	473	5524	80	1	350	
23	-	-		-															
24	3	3		840	5068	1071	6460	660	5891	711	6339	1500	10959	876	6400	120	1	425	
25	1	1		360	5428	459	6919	250	6141	269	6608	610	11569	356	6756	50			
26	1	1		310	5738	395	7314	240	6381	258	6866	550	12119	321	7077	60			
27	1	1		406	6144	518	7832	254	6635	273	7139	660	12779	385	7462	80			
28	2	2		690	6834	880	8712	710	7345	764	7903	1400	14179	818	8280	100			
29	-	-		-															
30	4	4		1010	7844	1288	10000	1950	9295	2097	10000	2960	17139	1720	10000	200	1	700	
31																			
34																			
	161	133	28	7844	7844	10000	10000	9295	9295	10000	10000	17139	17139	10000	10000	1600	23	2254	

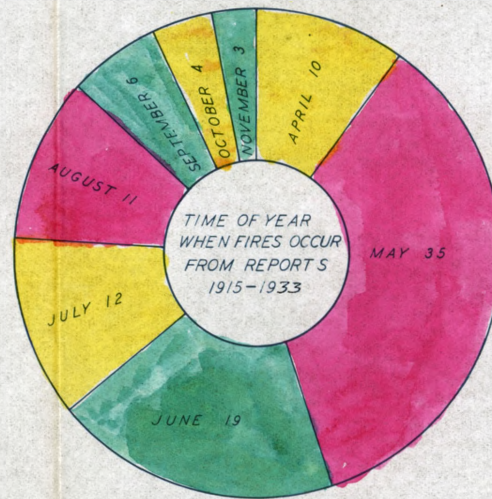
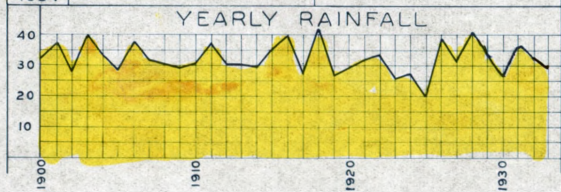
ACRE NO. 5

Diameter of trees D.H.	Total trees on Land before cutting	Total trees cut	Total trees not cut	Sawlogs, Tie cuts, Mng. Timber				Chemical Logs				Total Sawlogs, Tie cuts, Mng. Timber, Chem. Logs				Chemical Logs from Tops	Defective Trees	
				Bd.ft.	Accumulated Bd.ft.	%	Accumulated %	Bd.ft.	Accumulated Bd.ft.	%	Accumulated %	Bd.ft.	Accumulated Bd.ft.	%	Accumulated %		Number	Bd.ft.
2	24	13	11															
3	20	7	13															
4	12	7	5															
5	18	16	2															
6	7	7																
7	5	5																
8	10	10						90	90	1 03	1 03	90	90	55	55		10	90
9	10	10						100	190	1 15	2 18	100	190	62	1 17		10	100
10	5	5		300	300	4 00	4 00	110	300	1 26	3 44	410	600	2 53	3 70	50		
11	8	8		280	580	3 74	7 74	320	620	3 67	7 11	600	1200	3 70	7 40	80		
12	4	4		300		4 00	11 74	80	700	4 2	8 03	380	1580	2 34	9 74	80		
13	4	4				3 47	15 21	180	880	2 07	10 10	440	2020	2 72	12 46	120		
14	9	9				9 08	24 29	670	1550	7 69	17 79	1350	3370	8 33	20 79	360	1	130
15	3	3				2 96	27 25	318	1868	3 65	21 44	540	3910	3 33	24 12	90		
16	5	5				6 14	33 39	515	2383	5 92	27 36	975	4885	6 02	30 14	150		
17	-	-																
18	6	6				10 95	44 34	770	3153	8 84	36 20	1590	6475	9 82	39 96	240	1	220
19	2	2		320		4 27	48 61	290	3443	3 33	39 53	610	7085	3 76	43 72	80		
20	-	-																
21	-	-																
22	1	1		160		2 14	50 75	245	3688	2 81	42 34	405	7490	2 50	46 22	110		
23	5	5				17 36	68 11	1350	5028	15 50	57 84	2650	10140	16 35	62 57	200		
24	1	1		210		2 80	70 91	290	5328	3 33	61 17	500	10640	3 08	65 66	80		
25	2	2		680		9 08	79 99	540	5868	6 20	67 37	1220	11860	7 53	73 18	110	1	425
26	-	-																
27	1	1		310		4 13	84 12	350	6218	4 01	71 38	660	12520	4 07	77 25	110		
28	1	1		220		2 94	87 06	480	6698	5 51	76 89	700	13220	4 32	81 57	140		
29	1	1				7 07	94 13	270	6968	3 09	79 98	800	14020	4 94	86 51	60		
30	-	-																
31	1	1		440	7492	5 87	100 00	450	7418	5 16	85 14	890	14910	5 49	92 04	80		
34	1	1						1295	8713	14 86	100 00	1295	16205	7 99	100 00	110	1	1295
	166	135	31	7492	7492	100 00	100 00	8713	8713	100 00	100 00	16205	16205	100 00	100 00	2250	24	2260

FOREST FIRES



YEAR	NUMBER OF FIRES ON CCICO LAND	LOSS FROM FIRES ON CCICO LAND
1915	34	3038
1916	25	124
1917	22	1012
1918	27	1641
1919	56	8896
1920	22	53535
1921	56	7655
1922	14	00
1923	36	56857
1924	29	81529
1925	71	33158
1926	4	00
1927	4	00
1928	00	00
1929	3	00
1930	11	00
1931	01	00
1932	2	00
1933	3	00
1934		



R. A. BROTHERTON, C. E.
NEGAUNEE, MICH.

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF FOREST FIRES OCCURRING DURING THE YEAR 1933.

REPORT NO.	DATE 1933	LOCATION	PROBABLE CAUSE	ATTRIBUTABLE TO	PROPERTY DESTROYED
1	May 15	South of semaphore West of West Yard.	Unknown		Grass & Brush
2	June 24	1½ miles West of Long Siding	Match or cigarette	Fishermen	Grass & Brush
3	July 3	Between Power Siding and Dead River Bridge	Unknown	Oil burning, -City Electric Plant.	Grass lawn.
4	July 3	1 mile West of Finnegan	Locomotive on Extra 35 & 14	Spark from Engine	Leaves & Brush
5	July 4	2000 ft. from Cliffs Shaft Switch	Someone smoking	Spark	Hay & Peat bed
6	July 11	1/2 mile East of Juniper	Locomotive	Spark from Engine	Nothing of value.
7	July 25	1/4 mile West of Homier	Locomotive	Spark from Engine	None
8	July 27	1/4 mile West of Eagle Mills Tower	Locomotive	Live coals from Ashpan	None
9	July 29	200 ft. East of Granet Siding	Locomotive #3	Spark from Engine	None
10	Aug. 7	3½ miles west of Long Siding	Cigarette	Throwing away cigarette	Second Growth Timber
11	Aug. 8	3566 ft. West of M.P.43-L.S.& I.R.R.	Unknown		None
12	Aug. 8	West of switch at Harvey	Locomotive	Spark from Engine	None
14	Aug. 29	About 500 ft. west of Cliffs Shaft Switch	Engine No. 14	Spark from Engine	"
15	Aug. 30	Do.	Do.	Spark from Engine	Peat ground
16	July 26	Sections 11, 13, and 14-47-23	Unknown		Small amount of Hemlock timber on C.C.I.Co. Land.
17	Aug. 3	Near Johnson Lake	Unknown		Some Jack Pine on Section 28-45-25, owned by The C.C.I.Co.
18	Oct.	Section 23-49-26	Unknown		Small quantity on the West side of Section 23-49-26, owned by C.C.I.Co.

OMC:MD-2.
2/16/34.

REPORT OF STEPHEN LOWNY, LAND LOOKER,
FOR YEAR 1933.

I have been working alone most of the time during the past year on account of the depression and took my compassman with me only on occasions when timber lands had to be examined or when timber trespasses were found when we have to run and cut out the lines and had to measure the stumps, tops, etc., in order to determine the quantities of timber taken.

In addition I have been looking after those numerous jobbers who are cutting pulpwood and ties in the numerous swamps and isolated highland where the timber, several years ago, was slashed over.

These jobbers have to be looked after to see that they cut the timbers proper and clean, also run their lines so as to avoid trespass, also aiding them to locate their roads in the most favorable places for auto truck hauling, which custom is being used quite generally now in hauling wood products to the railroads or places of manufacture. Also induce them when practical, to ship their timbers over The Cleveland-Cliffs Iron Company's railroad instead of hauling it by auto trucks and it is also necessary to see that they ship the timbers to the parties named in their contracts, etc.

We examined 8600 acres of land and found and reported 25 trespasses. Several of these trespasses were for substantial quantities of logs and pulpwood and were committed generally on account of incorrect lines. Other of these trespasses were for building camps on Company lands, also for taking gravel, Spruce and Cedar Boughs, and ferns for florist purposes and also smaller quantities of various kinds of timber for fuel etc.

For success and profitable harmony, it is just as necessary for a big company to have friends as it is for an individual, and for this and other reasons it is best policy to not be too exacting with old employes or poor people when they take small quantities of decaying windfallen timber for fire wood. Everyone through this entire district, whether they are working for the Company or not, are appreciative and thankful for the help the Company is giving everyone during this depression and always.

FOREST FIRES:

The Summer of 1933 was very warm and very dry and, as a result, we have had numerous and mostly small fires in every district in the entire Upper Peninsula. Practically all of these fires originated in old and new slashings, also in the berry plains and marshes and along the railroads.

In view of all these fires the Cleveland-Cliffs Iron Company, with such immense holdings of lands and timber, has been more than fortunate, as I only know of two places, namely, on Section 13 in 47-23 and Section 23 in 49-26 where Company's timber has been injured to any material extent.

The fire on Section 13 was through Hemlock and this timber is now being cut and saved and the Company's loss there will be small.

The fire which injured and killed a comparatively small quantity of mostly Hemlock on the west side of Section 23 in 49-26 started in slashings in Section 22 joining. The State had more than 150 men on this fire. I got them to dig a trench about 2 miles long and 4 feet wide along the west side of Section 23, also along the north side of Section 27 and south side of Section 15 and by so doing checked and stopped this fire from penetrating to any material extent into Company's timber. The wind was strong from the west and the weather was very dry and we worked night and day on this fire.

TIMBER PROSPECTS:

The demand for timber products is very narrow. The prices paid are too small and the inspection and scale is unreasonably and impractically severe.

However, forests of mature timbers are getting comparatively small, this depression like all others will end, and when it does timber lands and timber products will get what they deserve, good prices and good profits.

I respectfully suggest that you drop from your ownership and quit paying taxes on these many thousands of worthless lands especially in Luce and Alger Counties.

I wish to take this opportunity to thank you for your always friendly help and cooperation in aiding me in caring for the Company lands in every way.

REPORT OF MR. A. J. ERICKSON
FOR YEAR 1933

THE CLEVELAND-CLIFFS IRON COMPANY

SALES OF LAND AND TIMBER

REAL ESTATE SALES

These amounted to \$9,897.47, of which \$2,494.26 represents sales to the Federal Government of lands lying within the Hiawatha and Marquette National Forests.

There were five sales for agricultural purposes covering 279.97 acres for a total of \$2,230.00; the price received for the land only averaged \$6.21 per acre in addition to which was secured a fair price for the remaining timber. The balance of this amount represents miscellaneous sales of land and timber, the principal ones being the so-called Pine Forty near Republic to Ellen Utberg for \$2,500.00 and a residence site to A. J. Yungbluth in the Ely Park Addition, Marquette, for \$700.00, and the balance represents various smaller sales and rights-of-way for highways to the State, Counties, etc.

There were no sales of lake frontage or land for camp sites during the year.

TIMBER SALES

The total cash sales amounted to \$24,608.25, the principal ones being to Railo, Rytkonen & Co. covering 1601.64 acres of timber in 44-24 for \$20,000.00 and 160 acres of timber to the William Bonifas Lumber Company in 47-9 for \$3,000.00

PULPWOOD PERMITS

We continued during the year to issue permits for Spruce, Balsam, Hemlock, Jack Pine, and White Birch pulpwood on a stumpage basis and delivery of the pulpwood was made to The Munising Paper Company, Escanaba Paper Company, William Bonifas Lumber Company, Sawyer-Stoll Timber Company, Badger Paper Mills, Inc., Thilmany Pulp & Paper Company, and a few responsible jobbers and the stumpage prices were collected by them. During the year 128 of these permits

were active and the total stumpage received amounted to \$19,594.31. ✓

SOFTWOOD TIE PERMITS

We also issued a number of tie permits. Thirty-six of these were active during the year. Stumpage collected on deliveries amounted to \$4,476.73. These ties were delivered to the Chicago & North Western and the Duluth, South Shore & Atlantic Railways.

MISCELLANEOUS PERMITS

We sold the hardwood timber on the N $\frac{1}{2}$ of NE $\frac{1}{4}$, Section 16-47-18 to Blizel & Blank on a stumpage basis and they delivered the logs to the Woodenware Co. The stumpage recovery amounted to \$6,964.87 and in addition to this we also had a number of permits on miscellaneous timber from which we recovered a stumpage of \$757.15 and, under this heading, is also included the item of \$172.25 received from The Munising Paper Company in our Lac La Belle timber settlement.

MISCELLANEOUS STUMPAGE SALES

These amounted to \$819.95 and represent miscellaneous sales of timber on cut-over lands to farmers and others for building and fuel purposes.

LAND AND TIMBER NEGOTIATIONS

GROUP 1 LANDS

HAMMERMILL PAPER COMPANY

The negotiations we had with these people several years ago were revived during the past year but nothing definite has, as yet, developed.

THILMANY PULP & PAPER COMPANY

We also have had some conversations during the year and these are still being continued with Mr. M. A. Wertheimer, of the Thilmany Pulp & Paper Company of Kaukauna, Wisconsin, looking towards a sale on some basis or other of the Jack Pine timber on the lands in this group and examination was made of the possible use of the Tahquamenon River as an outlet for this pulpwood and this is covered in Mr. Brotherton's report.

MISCELLANEOUS

We had very few applications for lands in this group during the year and the few received were mostly for camp sites. The only sale made in this group was previously reported covering 160 acres in Section 36-47-9 to the William Bonifas Lumber Company.

TAHQAMENON EXCHANGE

The Newberry Lumber & Chemical Company secured a decree on December 22nd, 1933, which disposed of the complications in the title to the undivided one-half interest in Lots 2 and 3, Section 32-49-7, and our title is now complete to the lands involved in this exchange.

OTHER EXCHANGES

We have had no further discussions with the Newberry Lumber & Chemical Company during the year looking towards the possible exchange of our holdings in Luce County for some of theirs in the district Northeast of Munising. This has been delayed principally on account of the negotiations with the Hammermill and Thilmany people and also to the fact that it will involve a large expense in looking lands.

RANGE 24 LANDS

The only sale in this district was that to Railo, Ryttonen & Co. previously mentioned, covering the timber on 1601.64 acres in Sections 3, 4, and 9-44-24. We also disposed of some pulpwood and tie stumpage on a stumpage basis on the lands in Section 29-45-24 and Sections 33 and 35-44-24. In addition to this, we received eight applications which covered, chiefly, lands in Sections 27 and 35-44-24. These lands carry a large proportion of tamarack mining timber and because of the lack of a market it is difficult to move this timber at the present time.

DULUTH, SOUTH SHORE & ATLANTIC RY. CO. EXCHANGE

In checking over the lands of the Athens Iron Mining Company, we reported to the Mining Department that apparently the Duluth, South Shore & Atlantic Railway Company had abandoned its right-of-way along the southern limits of the Athens property and suggested that inasmuch as some of these lands had reverted to the Athens Company, it might be well to open negotiations with the Railroad Company to acquire the other parcels which had no reversionary clauses. Mr. Elliott asked that we try and acquire these lands and we therefore took up this matter with the Railroad Company. We finally received an offer from the Railroad Company to convey these lands near the Athens property and also to execute releases of the abandoned right-of-way of the so-called South Track from Marquette to Negaunee wherever it crossed our property in exchange for which they desire some additional right-of-way

adjoining their present track on the SE $\frac{1}{4}$ of NE $\frac{1}{4}$, Section 9, and the SW $\frac{1}{4}$ of NW $\frac{1}{4}$, Section 10-47-27. This means the cancellation of two leases which they now hold from us and for which they are paying rental at the rate of \$50.00 per year. This proposed exchange involved the consent of the Lake Superior Iron Company, as they hold a mining lease on the SE $\frac{1}{4}$ of NE $\frac{1}{4}$, Section 9 and also own the fee of the SW $\frac{1}{4}$ of NW $\frac{1}{4}$, Section 10; The Cleveland-Cliffs Iron Company have a 99 year lease on the surface which expires October 9th, 1969, covering that portion of this forty crossed by the Duluth, South Shore & Atlantic Railway. We secured the consent of the Mining Department and also Mr. Mather, in a general way, to make the proposed exchange.

The documents were prepared and those affecting the Lake Superior Iron Company have been approved by them and we then submitted them to the Duluth, South Shore & Atlantic Railway. With a few minor suggestions as to wording of descriptions, these were approved but the only serious question they raised was whether or not it would be possible to secure releases from the three Trust Mortgages held by two Eastern Trust Companies on the railroad property. We have been working with Mr. A. E. Miller, the local attorney of the Railroad Company, endeavoring to find some way of securing these releases as Berg & Clancey advised that a mere Quitclaim Deed from the Railroad Company would not give us satisfactory title.

MISCELLANEOUS

In addition to the inquiries we received for lands in the districts above mentioned, we made approximately 150 quotations, mostly on scattered tracts of timbered land, but owing to the limited market for forest products of all kinds we did not develop very many sales.

LAKE AND RIVER FRONTAGE

The work of platting the cottage sites on Johnson and Bertrand Lakes near Gwinn was completed but no sales were made, as the season became too late and we expect that a number of these parcels will be disposed of in 1934.

The leasing of the balance of the frontage on Gold Lake has been delayed owing to the controversy with Charles P. Johnson, who is making a claim to a portion of our frontage. This matter is in the hands of Berg & Clancey and they have been endeavoring

to reach an amicable understanding without bringing an ejectment suit but they have finally reached the conclusion that this would be the only way in which this matter can be brought to a head and we expect that suit will be commenced early in 1934.

NATIONAL FORESTS

As a part of the Federal Government program, the limits of the three National Forests in the Upper Peninsula were quite materially extended with the result that we have been able to offer additional acreage in all three units.

HIAWATHA FOREST

Our option dated June 7th, 1932, covering 120 acres in 46-18 was approved and a voucher was issued in November but has, as yet, not been paid. We also submitted a new proposal under date of August 17th, 1933, covering 8457.72 acres at a price of \$2.50 per acre and these lands are now being examined by the Forest Service.

MARQUETTE FOREST

The option covering 1542.84 acres which was given the Government on April 1st, 1932, for eighteen months, was approved and a voucher covering the consideration of \$2,314.26 was received in the latter part of December but has, as yet, not been paid.

Under date of November 20th, 1933, we submitted a proposal covering 200 acres in 43-5 at \$2.00 per acre. These lands are in the limestone area and in addition to the minerals we are reserving the limestone.

LOT SALES

These were as follows:

Lot 4,	Block 1, Leather Co.'s Addition, Munising,	\$ 50.00
Lot 8,	Block 1, Leather Co.'s Addition, Munising,	50.00
Lot 14,	Block 10, Original Plat, Munising,	500.00
Lots 30,31 & 32,	Block 3, LaPorte Addition, Munising,	150.00
Total		\$750.00

HOUSE AND LOT SALES

There were no sales under this classification for the year.

NEGAUNEE HOUSE SALES

Additional sales in the so-called New Addition in the City of Negaunee and made during the year were as follows,- these include sales of Negaunee Mine houses also:

House No.	Purchaser	Lot	Block	Price	Down Payment	Monthly Payment
Maas 106	Victor Johnson & Wife	19	4	\$1200.00	\$600.00	\$ 8.00
Maas 21	Otto Korhonen & Wife	6	4	1100.00	110.00	11.00
Neg.Mine 54	Gust E. Sippola & Wife	21	4	1300.00	800.00	7.00
Maas 28	Arthur Olson & Wife	4	6	2000.00	200.00	20.00
Neg.Mine 53	Matt E. Mattson & Wife	6	2	1400.00	200.00	14.00
Maas 111	Joseph Chirio	31	4	1500.00	150.00	15.00
Maas 75	Selina Wiljanen	4	3	1600.00	800.00	15.00
Neg.Mine 24	Klaus Holm & Wife	24	4	1750.00	200.00	17.50
	Total			11850.00	3060.00	107.50

NEW LEASES

The new leases issued during the year were as follows:

28 Dwelling
 5 Garden
 2 Agricultural
 3 Pasture
 1 Fish House Site
 1 Private Garage
 11 Camping
 4 Agricultural Leases with Option to Purchase
 2 Bulk and Service Gas Station Sites
 1 Banking Ground
 1 Surface for Gold Mining
 1 Girl Scout Work
 1 Fire Tower Site
 1 Playground Site

In addition to these, we had a number of renewals. The total annual rental on the new leases amounted to \$1,027.00 and in some cases the lessees will also assume taxes which in 1933 amounted to \$228.27; these taxes, however, do not include those on the leases granted in The Cleveland-Cliffs Iron Company's First Addition, Negaunee, on which are located houses which were sold during the year.

GARDEN PERMITS

On account of the economic conditions prevailing, the Company again encouraged the planting of gardens in the various communities in which it is interested. The Garden Permits in force during 1933 were approximately as follows:

Negaunee	478
Ishpeming	448
Gwinn	175
North Lake	77
Total	<u>1178</u>

These permits were in addition to a number of the leases above mentioned and which were issued for garden purposes as it was deemed advisable to have the scattered remote parcels covered by a lease rather than a permit.

MINING DEPARTMENT LANDS

We have, as yet, not completed the checking of the properties at Republic but are doing this as we find time. The re-location of M-45 through the town will disturb quite a few of these parcels and require, in a number of instances, finding new locations for several dwellings.

LAND RENTALS

Following is a comparison of the rental earnings for the years 1932 and 1933 showing increases due to new leases issued:

	1933	1932
Lot Rentals	\$12,469.27	\$12,269.27
Land Rentals	10,405.71	10,127.24
Sundry Rentals	6.75	21.75

ROYALTIES

These amounted to \$882.30 as compared with \$867.70 for the year 1932. This represents amount received from the Advance Industrial Supply Company for trap rock used in its Pine Hill Quarry. The operation started out fairly good at the beginning of the year but gradually slumped with the result that, as above noted, it was on par with the year 1932. The total royalty received from this operation to the end of 1933 amounted to \$25,622.54, in addition to which, the lessee also pays the taxes.

LAND PRODUCTS SALES

These amounted to \$956.18 as compared with \$387.37 for the previous year. This increase is due principally to the greater activity of the Marquette County Road Commission in the use of gravel on the roads which they are taking over from the townships.

RENTED BUILDINGS

The dwellings were all occupied during the year with the exception of Houses No. 208 and No. 209 which were vacant the greater portion of the year. The total earnings amounted to \$6,630.00, maintenance \$649.21, location expense \$36.41, taxes \$1,565.86, insurance \$520.01, total operating expense \$2,771.49, leaving an earning before depreciation of \$3,858.51. Depreciation was \$2,749.44, leaving a net revenue of \$1,109.07 for the year; this compares with \$1,355.70 for the previous year. In this statement are included the Sawmill houses at Munising and those at the Central Location. Repairs on all buildings were kept down to a minimum and the repair expense incurred covered only absolute necessities.

COLLECTIONS

The following is a comparative statement of the sales and rents receivable accounts as of December 31st, 1933, and 1932:

	1933	1932
Real Estate Sales Receivable	\$41,252.77	\$43,420.13
Farm Land Sales Receivable	17,924.39	18,119.75
Lot Sales Receivable	528.04	708.50
House and Lot Sales Receivable	5,150.33	5,728.89
Negaunee House Sales Receivable	15,916.64	11,438.50
Timber Sales Receivable	15,233.93	10,948.36
Land Products Sales Receivable	1,268.52	1,237.97
Land Rents Receivable	28,613.76	19,786.51
House Rents Receivable	3,818.70	2,234.15
Grand Island Rents Receivable	279.17	200.00

SALES ACCOUNTS

Accompanying this report is a statement with comments on the individual sales accounts. The economic conditions continued very unfavorable during the year in the rural districts, with the result that it was almost impossible to secure further payments on these outstanding contracts but we endeavored, as far as possible, to secure at least the taxes and in some cases interest. The greater portion of the unpaid balance under Timber Sales Receivable represents taxes charged to the timber permits in December, 1933, and also an unpaid balance of \$10,000.00 on the Railo, Ryttonen & Co. Timber Permit, which has been paid since the close of the year.

RENTAL ACCOUNTS

The employment conditions in these communities were very poor and the small amount received by the people for part time work is not sufficient for them to keep up their rental payments with the result that there was a further large increase in the unpaid rentals over the previous year's. The greater portion, however, of these rentals is on lots or farms where the tenant has a considerable investment and with the normal conditions again prevailing, these will be taken care of.

SURRENDERED AND CANCELLED CONTRACTS

The only contract surrendered during the year was that held by Murrell Moore on the NW $\frac{1}{4}$ of SW $\frac{1}{4}$, Section 26-47-20.

CLIFFLAND FARM

The crop conditions in Rock River Township were again more or less affected by drought and grasshoppers. The Koskelas, however, were fortunate in securing sufficient hay to winter their stock but did not have any surplus to sell. Their grain crops were not so good. Their potato crop was fairly good. They now have a stock of approximately fifty head and expect, with improved prices for dairy products, they will be able to make substantial payments on their contract beginning in 1934. Payments received in 1933 amounted to \$428.66 and this was sufficient to pay the 1933 taxes and some interest on the principal. They have also a further credit of \$120.70 which was taken up in January, 1934, and this wiped out the 1933 taxes and paid some on the interest. These payments represent credits for deliveries of potatoes and rutabagas to our lumbering operations and also for a small quantity of milk and cream furnished the Hotel Williams.

During the year it became necessary to rebuild the roof over the root house. They have secured the posts to replace and rebuild a number of the fences but this work will not be undertaken until 1934. The apple crop was not very good and the poorer portion of the crop they are using to supplement their small supply of grain as feed for the cattle as they are endeavoring to get through the winter without purchasing any grain. They advised that they hoped to be able to prune the apple orchard this Spring and, with better spraying, hope to have a more salable lot of apples for 1934. They are also expecting a good yield from their strawberries.

The balance past due on this contract as of December 31st, 1933, is as follows:

Payment on Principal due Dec. 1, 1928	\$ 500.00
" " " " Dec. 1, 1929	500.00
" " " " Dec. 1, 1930	500.00
" " " " Dec. 1, 1931	1,000.00
" " " " Dec. 1, 1932	1,000.00
" " " " Dec. 1, 1933	1,000.00
Interest on Principal to Dec. 1, 1933	3,684.22
Insurance Premium Balance to April 7, 1934	75.73
Taxes 1933	80.83
Total	\$8,340.78

BEACH INN

The hotel business continued to be extremely light during the year and this was true of all hotels in the Upper Peninsula with possibly the exception of the Northland at Marquette and the Mather Inn at Ishpening. Tourist trade was extremely light which

was due partly to the Century of Progress Exposition at Chicago and also the economic conditions. Mr. Heckathorn did not make any payments on his contract nor did he keep up his taxes and water rates. The only improvement work done at the Hotel during the year was the repairs to several of the pillars on the front porch which had rotted. The hotel business will have to be materially improved in 1934 or he will not be able to continue to keep the place open. The amount due on the contract as of December 31st, 1933, is as follows:

Principal	\$18,859.46
Interest to Dec. 31st, 1933	3,095.88
Insurance to Jan. 7, 1934	752.04
Total	\$22,707.38

In addition to the above amount, are the taxes which are delinquent for 1931, 1932, and 1933, and also a considerable amount due on water rates.

MANUFACTURERS' HOTEL

Conditions at Munising during the year did not warrant re-opening of the place and it remained closed for the entire year. Mr. Belfry and his wife are still occupying the small living quarters in the rear of the main building and are looking after the property.

BELLEVUE AND CLIFFS FARMS

The Bellevue Farm was again leased for a rental of \$300.00 for the year and, in addition thereto, we received some rentals from the double dwelling. The Cliffs Farm is not used.

LOCATION IMPROVEMENTS

No expense of this nature was incurred during the year.

ROSENWALD TITLE

Nothing new to report in this matter and we presume it will await the disposition of the Weber Mortgage foreclosure.

MISCELLANEOUS

WOOD PERMITS

The company again set aside some second growth timber in the vicinity of Negaunee and Ishpeming as a wood supply for residents of these towns. The matter of planning the permits and looking after the cutting and delivering of the wood was left to the County Poor Commission. The statement accompanying this

report shows the number of cords cut from company lands. We are advised that the number of permits issued on Company lands were as follows:

Ishpeming & North Lake residents	769
Negaunee residents	299
Ely Township residents	12
Total	<u>1080</u>

LAC LA BELLE LANDS

In the Spring of 1932, The Munising Paper Company executed a Quitclaim Deed to The Cleveland-Cliffs Iron Company on all its interest in the timber on 1521.75 acres of Lac La Belle lands. The Cleveland-Cliffs Iron Company, in turn, released to the Newberry Lumber and Chemical Company the timber rights so quit-claimed by The Munising Paper Company but this release was not accepted by the Newberry Company,- first, because The Munising Paper Company had not secured a release of the Trust Mortgage as to these timber rights and, second, because The Cleveland-Cliffs Iron Company had inserted in the release a clause which would permit the removal of the hardwood saw timber ahead of the hemlock and which was contrary to the original Clark Contract. The Newberry Company, in returning the release to us, suggested that the three companies interested get together and adjust their respective rights of their timber in the Lac La Belle territory. They have in mind the exchange of their rights in the timber on certain Lac La Belle lands with this company for some of its holdings in Luce County and, as previously reported, this has been held in abeyance, owing to the Hammermill and Thilmany negotiations, and also, to the large expense which would be necessary for cruising before any exchange such as they desire can be negotiated.

We have advised The Munising Paper Company that we cannot accept their release until the Trust Mortgage release is in proper form as provided for in our agreement with them covering this Lac La Belle timber settlement. We presume that the 1932 and 1933 taxes on these particular lands are delinquent. Under our agreement with the Paper Company, The Cleveland-Cliffs Iron Company is liable for one-half of these taxes. Some arrangement should be reached with both The Munising Paper Company and the Newberry Company with reference to these particular Lac La Belle lands and which should not necessarily involve the question of exchanges of our other holdings.

LUNDIN & BJORK GOLD MINING LEASE

We attach hereto the two semi-annual reports received from Lundin & Bjork and also from Mr. E. L. Derby, Jr., with reference to the operations conducted under this lease during the year 1933.

BUNKER HILL MINING COMPANYLEASE RENTALS

The earnings from this source were the same as last year, namely, \$707.00 and, in addition thereto, we received \$12.00 from The Cleveland-Cliffs Iron Company for barn rental.

RENTED BUILDINGS

The earnings were \$436.80. Some of the tenants are only charged half rental.

Repairs were kept down and amounted to \$2.65 for the year. In addition to this, however, the water rates are paid by the company as they are included in the rental charged and these amounted to \$28.80 for the year. Insurance for the year was approximately \$18.88. The buildings are fully depreciated.

COLLECTIONS

Following is a comparative statement of the Receivable Accounts as of December 31st, 1933, and 1932:

	1933	1932
House Rents Receivable	\$298.15	\$121.00
Land Rents Receivable	1,249.87	638.79

The increase in the House Rents Receivable is due to slow collections on account of unemployment of the tenants. The balance remaining unpaid on Land Rents represents almost entirely the amount due from the Consolidated Fuel & Lumber Company.

UNSETTLED MATTERS

This has reference to the Chicago & North Western Railway Company's right-of-way across this property and a portion thereof occupied by the Negaunee Oil Company under a lease from the North Western. This has been previously reported in detail and is awaiting Mr. Mather's decision as to what he desires done.

AMERICAN IRON MINING COMPANYSALES OF LAND AND TIMBER

There were no new sales during the year and the only item under this head is the \$1.00 consideration received for a right-of-way deed to Spurr Township for a highway through Section 34-48-31.

TIMBER PERMITS

There were no new sales of timber but we received a total of \$213.17 stumpage from pulpwood cut by Eric Wedin under his Spruce and Balsam Permit. We also collected \$26.75 for fuel wood permits and \$17.50 stumpage on some Balsam poles which were sold for camp building purposes.

OTHER EARNINGS

\$41.92 interest was received on outstanding land contracts.

ACCOUNTS RECEIVABLE

The accompanying statement shows the condition of the various outstanding land contracts and timber permits.

THE CLIFFS POWER AND LIGHT CO.REAL ESTATE SALES

These amounted to \$83.50 and cover the following:

Marquette County Road Commission - Highway Deed to certain lands in 47 and 48-25	\$1.00
Negaunee Township - Electric Line Easement on the NE $\frac{1}{4}$ of SW $\frac{1}{4}$, Sec. 29-48-26	1.00
Waino and Nick Willig - Sale of Lot 2, Sec. 10, 45-26	79.50
Marquette County Road Commission - Right-of-Way for Highway, Sec. 32-48-27	1.00
Marquette County Road Commission - Right-of-Way for Highway, Sec. 18-46-29	1.00
Total	<u>\$83.50</u>

LAND RENTALS

The land rental earnings for the year amounted to \$249.25.

NEW LEASES

The only new lease issued was to Clinton C. Peterson covering a dwelling site in the Deer Lake Location for a rental of \$6.00 per year. We also granted Edward J.

Trihey permission to construct a boat house on a portion of Lot 189, Michigamme, for a nominal charge of \$1.00.

COLLECTIONS

The uncollected balance of rentals at the end of the year amounted to \$258.53 and is made up largely of amounts due for parcels at Republic. Owing to the extreme unfavorable employment conditions existing at Republic, it has been difficult to make collections.

AJE:MD-3.
2/14/34.

MINING DEPARTMENT

July 12th, 1933.

Subject: LUNDIN & BJORK GOLD LEASE

Mr. J. M. Bush, Land Agent,
Negaunee, Michigan

Dear Sir:-

I made an examination this morning of the work being done by Lundin & Bjork on the property they lease from us east of the Ropes Gold Mine. I accompanied Mr. Bjork to the property and we were met there by Messrs. Lundin and Karkkainen. Mr. Karkkainen is a young graduate of the Michigan College of Mining & Technology and in the past has done the assaying for Messrs. Lundin & Bjork and I understand is a Director in the Ishpeming Gold Mining Company, which leases the Ropes Gold Mine.

Work was commenced by Lundin & Bjork on the property leased from this Company as soon as the snow left the ground the past spring. The first activities consisted of chopping out the property lines, making surveys of these lines and locating property corners and in brushing out the area underlain by the tailings wash from the old Ropes Gold Mine milling activities many years ago. About three weeks ago two men were put to work constructing and installing a sluice box for the washing of the old mill tailings located on this Company's property. This box is approximately 58' long, 1' wide and 10" deep and contains iron riffles in the bottom about $1\frac{1}{2}$ " high and spaced about $1\frac{1}{2}$ " apart. The box is set on a slight angle for the proper washing of gold bearing material. Accompanying this latter is a white print map, scale 200' to 1", of the Ropes Gold Mine but showing near the right hand margin by a red "X", the approximate location of the operations being carried on by Lundin & Bjork on this Company's property.

Almost as soon as the work was started to try and extract the gold from the tailings by washing in the sluice box mentioned above, it was found the material was so fine in character that, first, it clung together in chunks or balls which the water did not break down, and second, much of it was so fine that it formed a colloidal with the water, carrying away much of the finely divided gold bearing particles, including the very fine sulphides. After some experimentation, it was decided to give up the idea of sluicing this material and start to experiment with cyaniding these tailings. The two men employed by Messrs. Lundin & Bjork are now engaged in the construction of two wooden tanks for use in this cyanide process. I did not see these men but understood the work was being done near their homes at the National Mine and that they will be put in place and work started within the next week or two.

Mr. Bjork told me that one of the principal delays in getting the work started has been the local banking situation which has tied up its cash on hand and made it impossible to raise additional money by the sale of stock. Also he said that it was practically impossible to do much without electric power, which has recently been brought into the property over a transmission line built into it by the Cliffs Power & Light Company. The small creek from which they had been obtaining their water supply for their washing operations has completely dried up and they now have a small gasoline portable pump mounted on an automobile truck and pump the water from the basin to the east.

I asked Messrs. Lundin & Bjork what they consider to be the extent of the tailings from the old mill located on this Company's property and they said that so far as they could tell, the area would approximate 600' in length, east and west, by something like 150' north and south, with an average depth of perhaps three to four feet. They also said that the average assay value of this material as it now exists in place is about \$2.50 per ton.

To answer paragraph one in your letter to Mr. Elliott of July 6th, I beg to state that my examination confirmed the verbal report to me by Messrs. Lundin & Bjork that they had not as yet concentrated, shipped, or sold any gold bearing material taken from this Company's property. They are, however, going ahead in this small way to attempt to work out an economical method of the recovery of the gold in these sands. I am also convinced that nothing short of cyaniding by some means of agitation to break down the chunks and cement like material will be successful in reclaiming enough values to make the proposition a paying one.

ROPES GOLD MINE

After examining the activities of Lundin & Bjork on this Company's property, I accompanied them to the work being done some 300' to the west on the old Ropes property. A party of four graduate students from the Michigan College of Mining & Technology are working on the same sort of tailing material as that existing to the east on this Company's property. They have been experimenting with a Wilfley concentrating table which was obtained from one of the mills in the Copper Country. The table is about 15' long and has a rated capacity of 25 tons per hour. On the coarser material found in these tailings the table has made a fairly satisfactory concentration of the sulphides, with about a 10 to 1 concentration. These sulphides assay about \$28.00 per ton, thus giving a \$2.80 per ton value of the tailings in place. Only a small tonnage, however, has been treated to date. They are having the same difficulties with the finer material as those experienced to the east on this Company's property and have already erected two wooden tanks which have been partly filled with the tailings in preparation for cyaniding.

I examined the old Ropes Gold Mine shaft and found that it had been retimbered from the collar down to the 1st Level, a distance of 30' at which point it was unwatered last winter. Very little water has run into the mine since then so Messrs. Lundin & Bjork estimate that the water is still not over two or three feet above the 1st Level. They are now trying to get hold of a pump to resume unwatering the mine workings and hope soon to interest sufficient capital to systematically sample these old workings, and where values appear to be sufficient, start actual stoping operations. This work also was delayed until electric power was brought into the property. An assay laboratory is maintained in the frame building southeast of the Ropes Shaft and all of the samples taken on the property assayed here. They have sent away many check samples, however, to confirm their own results and stated that their present equipment is adequate to give them correct results. They did have considerable trouble getting checks on their work last winter and they said this was due to the scales not being sensitive enough for that class of work. These have now been replaced by regular gold assay scales.

Yours very truly,

E. L. Derby, Jr.

Geologist

ELD:DP
CC-S.R.E.
COPY*MD-2.

MINING DEPARTMENT

January, 31st, 1934.

Subject: LUNDIN & BJORK GOLD LEASE

Mr. J. M. Bush, Land Agent
Negaunee, Michigan.

Dear Sir:-

I made my semi-annual examination this morning, of the work which is being done by Lundin & Bjork on the property they have leased from this Company in the vicinity of the Ropes Gold Mine north of Ishpeming. Mr. Bjork took me to the property where we met Messrs. Lundin and Prin, the latter being the chemist who does the assaying at the property.

At the time of my last visit on July 12, 1933, an attempt was being made to recover the gold from the tailings on the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 29, 48-27. These tailings resulted from the milling done during the operation of the old Ropes Gold Mine many years ago. Sluicing had been tried but the tailings being so fine in structure, they stayed in suspension with the water and carried away much of the fine particles of gold. An attempt was then made to cyanide these tailings by agitation but here again difficulty was encountered in separating the resulting liquid from the solid matter by the usual method of decantation due to the colloidal nature of the sands. In order to extract the gold from this very fine material, it will be necessary to filter the cyanide solution and as yet the operators have no filtering equipment to do this.

Also, since my July visit, the tailings area on this description which is available for treatment, has been further sampled. Three holes were sunk on each of the three north-south cross sections with the following results:

West section on the west line of the property assayed \$1.60 in gold and .60 oz. silver, length of section 80'. Center section, about 75' east of the west line assayed \$2.50 in gold and .60 oz. silver, length of section 100'. East section, 150' east of the west line of property assayed \$2.65 in gold and .57 oz. silver, length of section 100'. These values are based on gold at \$20.67 per ounce and assays made by their own chemist. It is roughly estimated there are about 5,000 tons of these tailings available on this description above the level of the storage basin.

The next activity by the lessees was a campaign of exploring on the land west of the marble quarry, where all their activities have been centered since the unsuccessful cyanide test on the tailings. In the NW of the SW of Section 30, 48-27, at a point approximately 500' north and 350' east of the Southwest corner of this description, work is being done to uncover a quartz vein which outcrops here in places and in other places is covered with as much as three or four feet of surface. They have trenched across the vein at its widest point and have worked along the strike of it on its outcrop, completely exposing it for a distance of about 40'. The

Mr. Bush

-2-

1-31-34

strike of this vein is approximately north-west south-east, which is almost across the general strike of the quartz veins in this vicinity. The vein therefore represents a cross fissure. It varies in width from a minimum of 18" to a maximum of 5' where exposed. Thus far, no systematic channel sampling has been resorted to. A picked sample, however, assayed \$2.50 in gold on the basis of \$20.67 per oz. and .45 oz. silver. Mr. Lundin told me, however, that an assay made on all of the material collected from this vein, regardless of position, showed \$1.05 in gold and .60 oz. silver. However, the work has not progressed far enough yet to allow a fair sample to be taken across the vein. They have been hampered in this work by extremely cold weather and an unusual amount of snow but I am convinced they are working as conscientiously as could be expected and as soon as the weather permits, the work here will be pushed as rapidly as possible.

In their laboratory they are spending considerable time and thought in the metallurgical treatment of the gold bearing material in this vicinity in order that as soon as enough money can be raised they will be able to design a mill which will give them the maximum practical extraction on a commercial scale.

In answer to the second paragraph of your letter to Mr. Elliott of the 3rd, I was told that no actual gold production had been obtained from this company's property, consequently there is nothing on which to collect royalty up to the present time. From my observations I do not hesitate to accept this statement without question.

Yours very truly,

E. L. Derby, Jr.,

Geologist.

ELD:DP
CC-S.R.E.

COPY
MD-4.

Ishpeming, Michigan

June 30, 1933.

Cleveland Cliffs Iron Company &
Cleveland Cliffs Light & Power Company,
Negaunee, Michigan.

Dear Sirs:

We herewith submit the report of work done for the period ending June 30th, 1933.

This work consists of reclaiming the old tailings from former operations of the Ropes Gold Mine. The tailings being worked are located on S. W. $\frac{1}{4}$ of N. E. $\frac{1}{2}$ of Sec. 29 - T. 48 Range 27 W. This is being done with the slime box method with a cross riffle. Up to date we have not been very successful in extracting the values from the tailings. Our assays show that we are getting about seventy cents from sand or ore that assays from \$2.00 to \$2.50 per ton.

The large part of the tails we are handling are in the form of a silt and questionable if the gold can be recovered by concentration.

We are going to try washing the silt or slimes through a rotary screen then through a rotary barrel for amalgamation, and if under this method we do not get the required recovery of gold we will try cyaniding by agitating.

There is probably 2,000 tons of tailings on this property that can be worked without much cost of clearing second growth timber. We will continue on with this work for a month to see if we can find a method whereby we can work it at a profit.

Yours truly,

Lundin & Bjork
By: Albert Bjork

COPY.
MD-3.

THE SEMI-ANNUAL REPORT

December 30, 1933.

The Cleveland-Cliffs Iron Company
The Cleveland-Cliffs Power & Light Company
Negaunee, Michigan

Gentlemen:

In our last semi-annual report we stated that we were making some attempt to work over the old tailings located on S.W. $\frac{1}{4}$ of N.E. $\frac{1}{4}$ of Sec. 29.

In our experience with those particular tailings we were unable to get a worth while concentrate. The concentrate consisting of finely ground quartz with very little sulphides. We made many attempts to get the gold down with the concentrates by panning. We found that over 50% of the gold values in the tailings would pass off with the water when panning. By agitating without decanting we found that nearly 50% of the gold values would pass over with the water, so it appears that 50% of the gold is the best we could recover from any method of concentration.

Towards the end of the sluicing season we ran short of water. We were using the back water in the Deer Lake basin and this got too far to reach. To elevate those tails and slimes into the sluice way we had a 2" centrifugal pump. To wash the slimes to the sump for elevating the same pump was used. Through a system of valves both operations could be worked at the same time. We believe with two pumps, one for washing, the other for elevating to sluice way could be made to work very satisfactorily.

Since the freeze-up we have been doing some work in the N.W. $\frac{1}{4}$ of S.W. $\frac{1}{4}$ of Sec. 30. We are working on a quartz vein. The strike of this vein appears to be East of South and West of North. In spots it appears to have a fairly good mineralization. If weather permits, we will continue on further with our work on this vein.

Kindly acknowledge receipt of this report.

Yours very truly,

Lundin & Bjork

By: Frank W. Lundin

CN-5.
COPY

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

WOOD PERMITS TO RESIDENTS OF ISHPEMING, NEGAUNEE, NATIONAL MINE,
AND ELY TOWNSHIP ISSUED IN 1933.

DESCRIPTION	PURCHASE	HARDWOOD
Ishpeming Residents W $\frac{1}{2}$ of NW $\frac{1}{4}$, NW $\frac{1}{4}$ of SW $\frac{1}{4}$ & NW $\frac{1}{4}$ of SE $\frac{1}{4}$, Sec. 21-48-27	Deer Lake No. 567	Cds. 424 #
SE $\frac{1}{4}$ of NW $\frac{1}{4}$, Sec. 33-48-27	do.	25 #
Ishpeming & National Mine Residents SW $\frac{1}{4}$ of SW $\frac{1}{4}$, Sec. 19-47-26	Iron Cliffs No. 1563	50 ##
S $\frac{1}{2}$ of SE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 24-47-27)	Iron Cliffs No. 1563	2056 ##
SE $\frac{1}{4}$ of SE $\frac{1}{4}$, Sec. 23-47-27)		
NW $\frac{1}{4}$ of NW $\frac{1}{4}$, Sec. 25-47-27)		
Ely Township Residents NE $\frac{1}{4}$ of SE $\frac{1}{4}$, Sec. 35-48-28	Iron Cliffs No. 1563	55 $\frac{1}{2}$ ##
Negaunee Residents Sec. 21-47-26	Iron Cliffs No. 1563	1398 ##
GRAND TOTAL CORDS CUT		4008 $\frac{1}{2}$

# Total Cords Cut on Lands Purchased Prior to Mar. 1, 1913	449
## Total Cords Cut on Lands Purchased Subsequent to Mar. 1, 1913	3559 $\frac{1}{2}$
	<u>4008$\frac{1}{2}$</u>

LED:MD-3.
2/1/34.

THE CLEVELAND-CLIFFS IRON COMPANY

Land Department

REAL ESTATE SALES RECEIVABLE - NOVEMBER 30, 1933.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE			INTEREST PAID TO	REMARKS	
						PRINCIPAL	TAXES	TOTAL			
3753	Fayette Land Company	July 1, 1921	\$ 6,500.00	\$1,500.00 Cash - Balance in 5 years	Feb. 8, 1932	\$2,500.00	184.87	2,784.87	Taxes 1932	1/ 1/30	We have been keeping after these people during the year but outside of keeping up insurance, have been unable to secure further payments. We are keeping after them. Has not answered our letters. Will follow this up by personal visit.
3790	Clifford LeClair	Aug. 13, 1921	125.00	\$25.00 Cash - Balance in 2 years	June 12, 1930	21.69	-	21.69		6/16/30	
3963	Charles Uren	Sept. 6, 1922	550.00	\$300.00 Cash - Balance in 5 years	Feb. 1, 1930	100.00	27.09	127.09	Taxes 1930-1932	About 4/1/26	Have called on him several times this year but claims he is unable to pay at this time. He is Supervisor of Crystal Falls Township and responsible and should eventually pay this.
4049	Peter G. Peterson	June 9, 1923	680.00	\$220.00 Cash - Balance in 5 years	June 30, 1926	276.00	87.37	363.37	Taxes 1926-1932	6/ 9/26	Unable to locate. Believe his brothers will do something on this contract as soon as business conditions improve.
4064	Charles E. Little	Aug. 10, 1923	380.00	\$80.00 Cash - Balance in 5 years	Jan. 28, 1926	240.00	81.30	321.30	Taxes 1926-1932	About 4/1/25	No progress made on this matter in 1933. Little claims he wants to keep the property and as he is responsible this should be eventually paid.
4143	Elmer Alcock	May 24, 1924	280.00	\$50.00 Cash - Balance in 5 years	Jan. 2, 1930	140.69	59.93	200.62	Taxes 1929-1932	About 12/24/29	This man is located in Minneapolis but does not reply to our letters.
4256	Frank Laroux	Sept. 5, 1925	360.00	\$90.00 Cash - Balance in 5 years	Mar. 9, 1931	106.99	57.29	164.28	Bal. Taxes 1929 & 1930-1932	9/15/29	No payments made in 1933. He wants to keep the land and has promised to resume payments as soon as possible.
4265	Emil Erickson	Sept. 26, 1925	540.00	\$400.00 Cash - Balance in 2 years	Sept. 26, 1925	140.00	112.26	252.26	Taxes 1925-1932	None Paid	Land abandoned. This man has been away from Eben for some time and as he does not reply to letters we will follow this up by a personal call.
4386	Sammal Hakala	June 1, 1926	380.00	\$90.00 Cash - Balance in 5 years	Feb. 2, 1933	100.00	-	100.00		2/ 1/33	Poor crops in 1933. Is keeping up his taxes and will pay up as soon as conditions improve.
4381	Gerrie Ellis	Feb. 5, 1927	350.00	\$50.00 Cash - Balance in 5 years	May 24, 1932	240.00	9.40	249.40	Taxes 1932	About 3/1/30	Large family. Wants to keep land and will endeavor to make payments as soon as employment conditions improve.
4391	Jacob Hakola	Apr. 1, 1927	400.00	\$75.00 Cash - Balance in 5 years	Jan. 31, 1933	130.00	-	130.00		4/ 1/31	Is keeping up taxes and will make further payments as soon as conditions improve.
4396	Sam Keskimaki	Apr. 12, 1927	420.00	\$80.00 Cash - Balance in 5 years	Jan. 24, 1933	136.00	-	136.00		4/12/31	Is keeping up his taxes and will resume payments as soon as possible.
4400	Mitchell St. Martin	Apr. 29, 1927	600.00	\$100.00 Cash - Balance in 5 years	Sept. 13, 1933	60.00	-	60.00		10/29/32	Contract expired April 29, 1932, and has been endeavoring to clean up the balance by monthly payments of \$10.00 each but has not made any since September 13. This will be cleaned up.
4419	John H. Saminen	July 5, 1927	400.00	\$150.00 Cash - \$100.00 1/15/28 - Balance in 5 years	Mar. 12, 1929	120.00	36.53	156.53	Taxes 1929-1932	3/ 5/28	Good substantial farmer but has been handicapped by poor crops for past 3 years and also unemployment conditions. Has large family.
4423	Clark L. Heckathorn & Wife	Aug. 1, 1927	22,500.00	\$2,500.00 Cash - Balance \$250.00 per mo.	Nov. 3, 1931	18,859.46	873.39 (Ins.)	19,732.85	Insurance premium charged to 4/7/34.	Approx. 12/20/30	No payments on this account in 1933. Comments on this account made each month in Monthly Report. As soon as business conditions improve we hope to make some arrangement whereby this contract can be carried out.
4429	Richard Harcourt	Aug. 18, 1927	1,000.00	\$200.00 Cash - Balance in 4 years	Jan. 17, 1929	600.00	20.47	620.47	Taxes 1929-1932	8/18/28	Harcourt died May 14, 1929. Estate has been trying to dispose of property but without success. Are keeping after.
4499	Leonard Johnson	June 2, 1928	1,300.00	\$500.00 Cash - Balance in 4 years	Oct. 3, 1933	169.65	-	169.65		10/ 2/33	We have been endeavoring to give this man a contract for pulpwood which would take care of this account. Still some timber to be removed from this land but market has been poor. Expect this will be paid eventually.
4501	Aug. Lehtinen	June 7, 1928	280.00	\$100.00 Cash - Balance in 4 years	Mar. 1933	15.00	-	15.00		6/ 7/31	Lehtinen died August 11, 1929, and expect this small balance will be cleaned up shortly.
4528	Wm. Benzling & Wife	Oct. 1, 1928	1,500.00	\$25.00 Cash - Balance @ \$20.00 per mo.	Oct. 1932	985.36	Taxes-25.49 Ins. 9.71	1021.05	Taxes 1932 Ins. Prem. to 4/7/34	11/15/30	Benzling has been unemployed for some time. He has, however, cleared considerable land and made improvements so that the property is worth more than the balance due. With improved business conditions expect he will resume payments.
4529	Nels Abramson	Nov. 24, 1928	400.00	\$100.00 Cash - \$100.00 5/24/29 - Balance in 4 years	July 29, 1933	50.00	-	50.00		7/29/33	Contract expired November 24, 1932. Taxes being kept up and expect this balance of \$50.00 will be paid in 1934.
4563	Jack Salminen	Feb. 14, 1929	320.00	\$30.00 Cash - \$120.00 3/14/29 - Balance in 4 years.	Jan. 10, 1931	127.50	29.66	157.16	1931-32 Taxes	2/14/30	This man has a large family but is fairly well established and has a good farm. Expect this will be cleaned up eventually.
4584	Henry Craig	May 29, 1929	200.00	\$50.00 Cash - Balance in 3 years	Feb. 15, 1930	150.00	16.94	166.94	Taxes 1930-1932	About 6/29/29	Unemployed. Expect as soon as woods operations improve this man will resume payments on this account.
4609	Joe Shegar	Sept. 3, 1929	280.00	\$56.00 Cash - Balance in 5 years	Sept. 5, 1933	69.44	-	69.44		9/ 3/33	Made a payment of \$25.00 in December so his contract is up to date.

REAL ESTATE SALES RECEIVABLE - NOVEMBER 30, 1933.

#2.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE			INTEREST PAID TO	REMARKS	
						PRINCIPAL	TAXES	TOTAL			
4626	Leone E. & Stanley Warchock	Oct. 29, 1929	\$ 400.00	\$100.00 Cash - Balance in 3 years	Nov. 18, 1930	\$ 200.00	36.38	236.38	Taxes 1930-1932	10/29/30	Land abandoned and do not reply to letters and have endeavored to make personal contact without success. Will keep after.
4641	Andrew Erickson	Nov. 29, 1929	500.00	\$300.00 Cash - Balance in 4 years	Oct. 23, 1931	200.00	14.94	214.94	Taxes 1931-1932	None Paid	Substantial farmer. Expect this account will be cleaned up although it may be necessary to bring pressure to do so.
4655	Max Knus	Apr. 1, 1930	420.00	\$100.00 Cash - Balance in 5 years	Jan. 21, 1933	256.00	-	256.00		4/ 1/31	Is keeping up taxes and expect payment on principal will be resumed as soon as conditions improve.
4668	Oscar R. Johnson	Apr. 23, 1930	800.00	\$160.00 Cash - Balance in 5 years	Oct. 24, 1933	256.00	-	256.00		4/23/33	Up to date.
4679	Sture Johnson & C. Elmer Johnson	June 23, 1930	1,400.00	\$280.00 Cash - Balance in 5 years	Aug. 31, 1932	920.00	145.07	1,065.07	Taxes 1930-1932	About 11/1/33	Large dairy farmers. Have enclosed the lands covered by this contract with fence and expect payments will be resumed as soon as conditions improve. Have been hard hit by crop failures for three years.
4691	Edward & Beatrice Corriveau	Sept. 3, 1930	350.00	\$100.00 Cash - Balance in 4 years	Nov. 2, 1933	100.00	-	100.00		9/ 5/33	Payments are being made at the rate of \$10.00 per month.
4895	G. M. Evans	Apr. 6, 1931	1,500.00	\$300.00 Cash - Balance in 5 years	Mar. 1, 1933	1,300.00	-	1,300.00		None Paid	Extensive improvements made on property but until business conditions improve doubt if further payments will be made. Has made arrangements to sell right-of-way to State across portion of this property and proceeds of same will be applied on this account.
4906	Fred W. Frei	June 20, 1931	450.00	\$50.00 Cash - Balance in 4 years	Sept. 20, 1933	175.00	-	175.00		6/20/33	Up to date.
4920	Joseph A. Pelletier	Sept. 9, 1931	450.00	\$150.00 Cash - Balance in 3 years	Sept. 9, 1933	100.00	-	100.00		9/28/33	Up to date.
4935	Armour C. Saari	Oct. 8, 1931	900.00	\$100.00 Cash - Balance in 5 years	July 21, 1933	620.47	-	620.47		7/ 8/33	A portion of payment due October 8, 1933, in arrears. Collection on this account will be slow.
4944	Paul Knutson	Oct. 26, 1931	220.00	\$50.00 Cash - Balance in 4 years	June 16, 1932	95.00	16.40	111.40	Taxes 2nd half 1931 & 1932	None Paid	This covers land in Minnesota. Has not replied to our recent letters. Are keeping after.
4949	Chas. Laurich	Nov. 6, 1931	320.00	\$50.00 Cash - Balance in 4 years	Nov. 7, 1933	135.00	-	135.00		11/ 6/33	Up to date.
5002	United States of America	Apr. 1, 1932	2,314.26	Cash	-	2,314.26	-	2,314.26		None Paid	This covers sale of land to Government in Marquette National Forest. Title now being examined. Expect this will be paid early in 1934.
5034	Archie Potvin	May 2, 1932	800.00	\$100.00 Cash - Balance in 5 years	May 16, 1933	591.05	-	591.05		5/ 2/33	In arrears \$31.05 on payment which became due May 2nd, 1933. Has promised to pay this as soon as possible.
5080	Otto Laine	Aug. 12, 1932	242.88	\$82.88 Cash - Balance in 5 years	Mar. 8, 1933	128.00	-	128.00		3/23/33	In arrears one payment of \$32.00 to March 23rd, 1933. Has been hit by crop failure.
5094	City of Ishpeming	Aug. 19, 1932	1.00	Cash	-	1.00	-	1.00			Paid in December 1933.
5096	Francis F. Pittsley	Sept. 7, 1932	760.00	\$50.00 Cash - \$50.00 2/7/32 - Balance in 6 years	Nov. 4, 1933	659.70	-	659.70		11/ 7/33	In arrears on one payment of \$110.00 due September 7th and has promised to pay half of this in February 1934.
5123	John Lehtimaki	Oct. 20, 1932	350.00	\$75.00 Cash - Balance in 5 years	Feb. 1933	275.00	-	275.00		None Paid	Payment of \$55.00 due October 20, 1933, secured by assignment of proceeds of pulpwood contract with the Munising Paper Company and this will be paid early in 1934.
5173	H. B. Ball, et al	Dec. 13, 1932	1,000.00	\$200.00 8/1/33 - Balance in 4 years	Dec. 17, 1932	999.00	-	999.00		None Paid	Interviewed this man at Brimley on September 15. Is making some improvements and hopes to be able to make some payment on this account before the end of this year.
5228	Edward B. & Olga J. Chevette	Mar. 3, 1933	350.00	\$50.00 Cash - Balance in 5 years	Sept. 27, 1933	300.00	-	300.00		9/ 3/33	Up to date.
5245	Andrew J. & Effie C. Yungbluth	May 1, 1933	700.00	\$100.00 Cash - Balance in 6 years		700.00	-	700.00		New	Up to date. Payment made in December.
5251	Eric & Lillian P. Hakanen	May 15, 1933	650.00	\$100.00 Cash - Balance in 5 years	May 16, 1933	550.00	-	550.00		New	Up to date.
5252	Frank & Lydia Ruohonen	May 19, 1933	320.00	\$80.00 Cash - Balance in 5 years	May 23, 1933	240.00	-	240.00		New	Up to date.
5289	United States of America	June 27, 1933	180.00	Cash		180.00	-	180.00		New	Voucher for this sent to Federal Government in December.
5313	Andrew Hill	May 1, 1933	600.00	\$100.00 Cash - Balance in 5 years	Nov. 1933	504.89	-	504.89		New	Payment made in December. Up to date.
5315	The Cliffs Power & Light Company	Aug. 21, 1933	1.00	Cash		1.00	-	1.00			Contract held in Cleveland. Not executed.

REAL ESTATE SALES RECEIVABLE - NOVEMBER 30, 1933.

23.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE			INTEREST PAID TO	REMARKS
						PRINCIPAL	TAXES	TOTAL		
5316	The Cliffs Power & Light Company	Aug. 21, 1933	\$ 1.00	Cash		\$ 1.00	-	1.00		Contract held in Cleveland. Not executed.
5323	State of Michigan	Sept. 7, 1933	1.00	Cash		1.00	-	1.00		Expect this will be paid in 1934.
5327	Steve Slambo	Sept. 25, 1933	300.00	\$50.00 Cash - Balance in 4 years		200.00	-	200.00		Up to date.
5341	Marquette County Road Commission	Oct. 23, 1933	1.00	Cash		1.00	-	1.00		Paid in December.
5350	State of Michigan	Nov. 1, 1933	815.44	Cash		815.44	-	815.44		Expect this will be paid early in 1934.
5359	Marquette County Road Commission	Nov. 22, 1933	1.00	Cash		1.00	-	1.00		Paid in December
TOTAL THE CLEVELAND-CLIFFS IRON COMPANY						36,209.09	1,846.48	40,055.57		
WILLIAM G. MATHER ACCOUNTS										
3597	Wm. Horner	Apr. 2, 1920	55,000.00	\$27,500.00 Cash - Balance in 13 notes		-	-	-		Up to date.
4404	John Heino	May 10, 1927	320.00	\$65.00 Cash - Balance in 5 years	May 10, 1928	255.00	66.61	321.61	Taxes 1928-1932	5/10/28 } These men do not reply to letters. We will make personal calls on them again as soon as possible and arrange definitely for disposition of these contracts in some manner. None Paid
4405	Anselm Oja	May 10, 1927	300.00	\$60.00 Cash - Balance in 5 years	May 10, 1927	240.00	78.39	318.39	Taxes 1927-1932	
TOTAL WILLIAM G. MATHER						495.00	147.00	642.00		
GRAND TOTAL						38,704.09	1,993.48	40,697.57		

ADDED-CN:5
12/28/33.

THE CLEVELAND-CLIFFS IRON COMPANY

Land Department

TIMBER SALES RECEIVABLE - NOVEMBER 30, 1933.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE			INTEREST PAID TO	REMARKS
						PRINCIPAL	TAXES	TOTAL		
4498	Wallace H. Masters	May 28, 1928	\$ 2,500.00	\$500.00 Cash - Balance in 3 years	May 8, 1933	\$ 359.65	-	359.65	4/28/33	This man is engaged in real estate business. Collections have been poor during the year. Expect he will get this cleaned up in 1934.
5019	Alex Wester	Apr. 7, 1932	500.00	\$200.00 Cash - Balance to be deducted by The Munising Paper Co. & The C.C.I.Co. on pulpwood and tie contracts	Nov. 1932	50.00		50.00		Balance represents charge made for extension of contract for 1 year This is secured by assignment from his proceeds of his pulpwood contract with the Munising Paper Co.
5138	Wayne Kononen	Oct. 1, 1933	Spruce \$2.00 Cd. Balsam .50 "	Pulpwood stumpage to be paid based on actual scale		4.87		4.87		Expect this item will be paid shortly.
5335	Waino & Nick Willig	Oct. 21, 1933	113.75	\$50.00 Cash - Balance Oct. 21, 1934	Oct. 25, 1933	63.75		63.75	New	New Contract
5354	Bill Baile, Jafet Ryttonen & Arvid Jarvi	Nov. 14, 1933	20,000.00	\$5,000.00 Cash - \$5,000.00 on Dec. 1, 1933, \$5,000.00 on Jan. 1, 1934, \$5,000.00 on Feb. 1, 1934.	Nov. 14, 1933	15,000.00		15,000.00	New	New Contract
				TOTAL		15,478.27		15,478.27		

AJE:LED-CN:6
12/28/33.

THE CLEVELAND-CLIFFS IRON COMPANY

Land Department

FARM LAND SALES RECEIVABLE - NOVEMBER 30, 1933.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE D/E			INTEREST PAID TO	REMARKS
						PRINCIPAL	TAXES	TOTAL		
3945	Cheever Buckbee	July 15, 1922	\$ 550.00	\$150.00 Cash - Balance in 5 years	Feb. 10, 1926	\$ 240.00	\$113.46	\$ 353.46 Taxes 1926-1932 incl.	2/15/26	Real estate very slow. This man has been endeavoring to dispose of his interest in this property.
4290	Edward Bryant	Dec. 3, 1925	280.00	\$50.00 Cash - Balance in 5 years	Dec. 3, 1925	220.00	61.90	281.90 Taxes 1926-1932 incl.	None Paid	Interviewed Bryant this year and he promised to execute a release of his interest in this contract but has as yet not done so. Are keeping after.
4388	John H. & Mary Koskela	Apr. 1, 1927	15,000.00	See Contract	Nov. 1933	15,000.00	Ins. 75.73	15,075.73 Insurance Premium charged to 4/1/34.		\$428.66 was received on this account in 1933. Crops were poor and prices low. With improved conditions should make better progress in 1934.
4440	Joseph Hill	Sept. 10, 1927	1,265.00	\$55.00 Cash - Balance @ \$15.00 per month	Apr. 20, 1931	955.96	66.95	1,022.91 Taxes Bal. 1930 and 1931-1932		Another crop failure this year. In poor circumstances. Expect resumption of payments as soon as conditions improve.
4461	John A. Doelle	Jan. 23, 1928	200.00	\$50.00 Cash - Balance in 3 years	Jan. 19, 1929	100.00	47.11	147.11 Taxes 1929-1932 incl.	1/23/29	Located at Lansing, Michigan. Pays no attention to letters written him.
4555	Thomas H. Fewlass	Feb. 7, 1929	200.00	\$50.00 Cash - Balance in 3 years	Jan. 9, 1933	150.00		150.00	8/27/29	Is keeping up his taxes. Expect this will be paid in 1934.
4669	Gust Tyynismaa	Apr. 16, 1930	350.00	\$72.00 Cash - Balance in 4 years	Apr. 16, 1930	288.00	39.31	327.31 Taxes 1930-1932 incl.	None Paid	Crops extremely poor this year and no payments made. With improved conditions expect to make some settlement of this account.
4705	Wm. Walkonen	Oct. 3, 1930	240.00	\$48.00 Cash - Balance in 4 years	Jan. 28, 1931	192.00	18.13	210.13 Taxes 1931-1932	None Paid	Crop failure again this year. This man was injured in Company employment and has been receiving compensation. Are keeping after.
4902	John C. Jensen	June 6, 1931	200.00	\$50.00 Cash - Balance in 3 years	June 7, 1933	50.00		50.00	6/6/33	Up to date.
5092	John Mihalic	Aug. 25, 1932	500.00	\$250.00 Cash - Balance in 3 years	Jan. 19, 1933	250.00		250.00	None Paid	Made payment of \$85.00 on this account December 13 and promised to bring it up to date as soon as possible.
Total						17,445.96	422.59	17,868.55		

AJE:LED:CK-6.
12/27/33.

THE CLEVELAND-CLIFFS IRON COMPANY
Land Department
 HOUSE AND LOT SALES RECEIVABLE - NOVEMBER 30, 1933.

DOCUMENT NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE		TOTAL	INTEREST PAID TO	REMARKS
						PRINCIPAL	INSURANCE			
517	Gabriel Heldman & Wife	May 1, 1922	\$ 2,168.22	156 notes of \$20.00 each & 1 note of \$10.64 - payable monthly	Nov. 7, 1933	\$ 353.22		353.22	Nov. 1, 1933	Up to date.
556	Harry C. & Hildur A. Olson	Dec. 1, 1922	833.77	56 " " 25.00 " & 1 " " 14.23 - " "	Oct. 20, 1931	170.33		170.33	June 1, 1925	Was unemployed for a long time. Now working at C.C.C. Camp. Has promised to pay up taxes which are delinquent for past 3 years. Are keeping after.
635	Algot & May Matson	Feb. 2, 1925	607.64	32 " " 20.00 " & 1 " " 20.55 - " "	Apr. 30, 1930	40.25		40.25	Sept. 1, 1927	This man is endeavoring to secure a loan from the Home Owners Loan Corporation.
647	Myrtle I. Cummins	Jan. 1, 1925	1,232.48	16 " " 75.00 " & 1 " " 89.22 - " "	Nov. 9, 1929	672.04		672.04	About 10/1/29	Hotel business extremely poor past 3 years. Unable to make payments. Has made application for loan from Home Owners Loan Corporation.
684	Albert F. J. Schultz & Wife	Dec. 6, 1926	1,144.36	95 " " 15.00 " & 1 " " 19.13 - " "	June 25, 1931	582.60	19.50	602.10	May 6, 1931	Mr. Schultz died November 24, 1932. Widow is County charge. Endeavoring to make some arrangement with County to take over this property.
692	Henry Archaubeau	Jan. 1, 1927	1,415.70	87 " " 20.00 " & 1 " " 11.21 - " "	Nov. 23, 1933	542.88		542.88	Dec. 1, 1931	This man working at Paper Mill and is making payments each month.
4685	John L. & Ellen P. Yell	Aug. 1, 1930	2,600.00	\$100.00 cash - balance in 138 notes of \$25.00 each & 1 note of \$23.42 - payable monthly	June 19, 1933	2,067.25		2,067.25	Apr. 1, 1933	This contract was surrendered on August 24, 1933, but we have been carrying the account endeavoring to make a new sale and expect to be able to accomplish this in the spring.
5000	Henry Aho	Apr. 1, 1932	750.00	\$10.00 cash & \$10.00 each month	Mar. 31, 1933	726.47	5.65	732.12	Mar. 1, 1933	This man is an employee of the Company at the Cliffs Shaft and has been out of work since the mines closed. Expect payments to be resumed when mines reopen.
TOTAL						5,155.04	25.15	5,180.19		

A.E. LED-CH. 6.
12/28/33.

THE CLEVELAND-CLIFFS IRON COMPANY

Land Department

LOT SALES RECEIVABLE - NOVEMBER 30, 1933.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE		INTEREST PAID TO	REMARKS
						PRINCIPAL	TOTAL		
4597	Randall Black & Mary Black	July 17, 1929	\$ 110.00	\$10.00 Cash - Balance in 4 years	Sept. 29, 1932	\$ 65.00	\$ 65.00	about 12/17/31	Have called on these people several times but they fail to keep promises of payment. Expect we will get this cleaned up in 1934.
4459	Alger County Insurance Agency	Nov. 22, 1927	800.00	\$6.90 monthly until paid	Nov. 7, 1933	317.00	317.00	9/ 1/33	This represents our proportion of payments on City Hall site. The City is in arrears two payments.
5090	Fred Morin	Aug. 19, 1932	50.00	\$15.00 Cash - Balance in 2 years	None Paid	50.00	50.00	none paid	This man has a large family and considerable sickness. Employed at Paper Mill. Will pay up this account as soon as his sons get work.
5311	William Wilson & Lulu Wilson	Aug. 1, 1933	50.00	\$5.00 Cash - \$5.00 on 1st of November, February, May and August each year until paid	Nov. 9, 1933	40.00	40.00	new	Up to date.
4151	Nick Moroz	June 25, 1924	425.00	\$65.00 Cash - Balance in 5 years	Nov. 21, 1933	67.94	67.94	9/ 1/33	Received \$5.00 per month on this account from his payroll at The Manufacturing Woodenware Co.
Total						\$ 539.94	539.94		

AJS:LEB:CM-6.

THE CLEVELAND-CLIFFS IRON COMPANY

Land Department

NEGAUNEE HOUSE SALES RECEIVABLE - NOVEMBER 30, 1933.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	PRINCIPAL	BALANCE DUE		TOTAL	INTEREST PAID TO	REMARKS
							TAXES	INSURANCE			
5128	Amanda St. Armand	Nov. 1, 1932	\$ 3,800.00	\$350.00 Cash - Balance \$39.00 per month	Nov. 6, 1933	\$3,162.14			\$3,162.14	11/ 1/33	Up to date.
5129	Wm. H. Treloar & Wife	Nov. 1, 1932	1,400.00	\$140.00 Cash - Balance \$14.00 per month	Sept. 18, 1933	1,221.10			1,221.10		A few payments in arrears but endeavoring to catch up.
5130	Arthur Pascoe & Wife	Dec. 1, 1932	1,500.00	\$150.00 Cash - Balance \$15.00 per month	Nov. 2, 1933	1,256.89			1,256.89	11/ 1/33	Up to date.
5132	Richard H. Burrows & Wife	Dec. 1, 1932	1,500.00	\$150.00 Cash - Balance \$15.00 per month	Nov. 9, 1933	1,256.89			1,256.89	11/ 1/33	Up to date.
5168	Lec E. Dodendorf & Wife	Dec. 1, 1932	2,800.00	\$280.00 Cash - Balance \$28.00 per month	Nov. 25, 1933	2,378.56	4.80	9.31	2,392.67	9/ 1/33	A few payments in arrears. Endeavoring to catch up.
5169	William Helmsdorfer	Dec. 1, 1932	1,700.00	\$170.00 Cash - Balance \$17.00 per month	Nov. 1933	1,511.25			1,511.25		Collections being made over payroll. Has been working only part time.
5197	Victor Johnson & Wife	Jan. 2, 1933	1,200.00	\$600.00 Cash - Balance \$8.00 per month	Nov. 25, 1933	543.58			543.58	11/ 1/33	Up to date.
5200	Otto Korhonen & Wife	Jan. 2, 1933	1,100.00	\$110.00 Cash - Balance \$11.00 per month	Nov. 2, 1933	928.08			928.08	11/ 1/33	Up to date.
5202	Arthur Olson	Jan. 2, 1933	2,000.00	\$200.00 Cash - Balance \$20.00 per month	Oct. 30, 1933	1,687.47			1,687.47	11/ 1/33	Up to date.
5215	Joseph Chirio & Wife	Mar. 1, 1933	1,500.00	\$150.00 Cash - Balance \$15.00 per month	Sept. 12, 1933	1,299.85		3.88	1,303.73	9/ 1/33	A few payments in arrears. Are keeping after.
5233	Selma Wiljanen	Apr. 1, 1933	1,600.00	\$800.00 Cash - Balance \$15.00 per month	Nov. 6, 1933	706.26			706.26		Up to date
TOTAL						\$15,952.07	4.80	13.19	15,970.06		

AJSL:LED-CN:6
12/28/33.

THE NEGAUNEE MINE CO.
 LAND DEPARTMENT
 NEGATIVE HOUSE SALES RECEIVABLE - DECEMBER 31ST, 1933.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE			INTEREST PAID TO	REMARKS		
						PRINCIPAL	TAXES	INSURANCE				
5201	Gust E. Pippola	Jan. 2, 1933	\$1,300.00	\$900.00 Cash - Balance \$7.00 per month	Dec. 5, 1933	\$356.22			\$ 356.22	Dec. 1, 1933	Up to Date.	
5203	Matt E. Mattson	Feb. 1, 1933	1,400.00	\$200.00 Cash - Balance 14.00 per month	Dec. 9, 1933	1,116.15	\$35.95		1,154.10	Taxes 1933	Dec. 1, 1933	Up to Date. Taxes paid in January, 1934.
5330	Klaus E. Holm	Oct. 2, 1933	1,750.00	\$200.00 Cash - Balance 17.50 per month	Dec. 1933	1,530.45	12.04	2.45	1,544.94	Taxes 1933	Dec. 1, 1933	Up to Date.
GRAND TOTAL						3,004.82	47.99	2.45	3,055.26			

LEHND-6.
2/16/34.

AMERICAN IRON MINING COMPANY

LAND DEPARTMENT

REAL ESTATE SALES RECEIVABLE - DECEMBER 31ST, 1933.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE			INTEREST PAID TO	REMARKS
						PRINCIPAL	TAXES	TOTAL		
4928	Ernest Keast	Sept. 3, 1931	\$ 450.00	\$100.00 Cash - Balance in 4 years.	Sept. 5, 1933	\$ 175.00	\$10.69	\$ 185.69 Taxes 1933	Sept. 3, 1933	Up to Date. Taxes paid in Jan. 1934.
4987	Township of Sparr	Feb. 1, 1932	1.00	Cash.	-	1.00	-	1.00	-	Paid in January, 1934.
5055	Waino Warjonen	June 14, 1932	500.00	\$25.00 Cash - Balance in 5 years.	June 9, 1933	340.00	10.68	350.68 Taxes 1933	June 14, 1933	
5118	Leo J. Verville	Oct. 1, 1932	250.00	5 annual payments beginning June 1, 1933	-	250.00	17.14	267.14 Taxes 1932-3	None Paid	Payment on this contract due June 1, 1933, has not been paid. Are keeping after him.
GRAND TOTAL						766.00	38.51	804.51		

TIMBER SALES RECEIVABLE - DECEMBER 31ST, 1933.

4700	Matt Lepisto	Oct. 1, 1930	150.00	Cash	Jan. 20, 1933	-	14.24	14.24 Taxes 1933		
4703	Wm. A. Hill & Oscar L. Laakonen	Oct. 2, 1930	90.00	Cash	Jan. 4, 1932	-	10.02	10.02 Taxes 1932		May have some difficulty in collecting these taxes.
5111	Waino Warjonen	Oct. 8, 1932	75.00	Cash	June 1, 1933	-	21.34	21.34 Taxes 1933		
GRAND TOTAL						-	45.60	45.60		

THE CLIFFS POWER & LIGHT CO.

LAND DEPARTMENT

REAL ESTATE SALES RECEIVABLE - DECEMBER 31ST, 1933.

CONV. NO.	PURCHASER	DATE OF SALE	CONSIDERATION	TERMS	DATE OF LAST PAYMENT	BALANCE DUE			INTEREST PAID TO	REMARKS
						PRINCIPAL	TAXES	TOTAL		
5335	Waino Willig & Nick Willig	Oct. 21, 1933	\$79.50	To be paid Oct. 21, 1934	-	\$ 79.50	-	\$ 79.50	None	

LED:MD-5.
2/16/34.

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF LAND AND TIMBER SALES FOR THE YEAR 1932.

PURCHASER	DESCRIPTION	ACREAGE	AMOUNT OF SALE			REMARKS
			LAND	TIMBER	TOTAL	
Joseph Mitchell	25 M ft. Pine - Certain Lands in Secs. 30 & 32, 48-26	-	-	\$ 132.00	\$ 132.00	Pine Timber Only.
Isaac Hannuksela	NW $\frac{1}{4}$ of SE $\frac{1}{4}$, Sec. 34-48-28	-	-	75.00	75.00	Timber Only
Mackinac County	Right-of-Way, E $\frac{1}{2}$ of NW $\frac{1}{4}$, " 17-43-5	6.64	\$ 50.00	-	50.00	
Edw. G. Chevette & Wife	NW $\frac{1}{4}$ of SE $\frac{1}{4}$, " 10-47-26	40.00	200.00	160.00	360.00	
Marquette County	Right-of-Way, Cliffs Drive, Town 47-27	49.53	1.00	-	1.00	Conv. #5234.
Michigan Bell Telephone Co.	Easement, Sec. 6-47-26 and 1-47-27	-	5.00	-	5.00	Telephone Line Easement Conv. #5244
Andrew J. Yangbluth	Part of Lot 1, " 13-48-25	1.31	700.00	-	700.00	
Marquette County	Right-of-Way in Towns 47 & 48-25	29.03	-	1,313.77	1,313.77	No charge for land.
Ellen Utberg	NE $\frac{1}{4}$ of NE $\frac{1}{4}$, " 2-45-29	41.47	41.47	2,458.53	2,500.00	
Eric Hakanen	E $\frac{1}{2}$ of NW $\frac{1}{4}$, " 2-45-21	79.97	569.82	80.18	650.00	
Frank Ruohonen	NE $\frac{1}{4}$ of SE $\frac{1}{4}$, " 22-48-26	40.00	210.00	110.00	320.00	
Arvid Puro	Entire Sec. " 2-45-22	-	-	75.00	75.00	Spruce & Balsam Only
Doratie Dominick	S $\frac{1}{2}$ of SW $\frac{1}{4}$, " 24-46-17	-	-	350.00	350.00	Timber Only
Thomas Connors	SW $\frac{1}{4}$ of NE $\frac{1}{4}$, SE $\frac{1}{4}$ of NW $\frac{1}{4}$, NW $\frac{1}{4}$ of SE $\frac{1}{4}$, " 20-46-26	-	-	137.50	137.50	Timber Only
Lauri Maki et al	E $\frac{1}{2}$ of SW $\frac{1}{4}$, " 30-46-26	-	-	175.00	175.00	Timber Only
United States of America	Certain Lands in Secs. 27, 28, & 34-46-18	120.00	180.00	-	180.00	
United States of America	Certain Lands in Chippewa County	[1,542.84]	1,542.84	771.42	2,314.26	Acres deducted in 1932
Warjonen & Keski	N $\frac{1}{2}$ of NE $\frac{1}{4}$ & SE $\frac{1}{4}$ of NE $\frac{1}{4}$, " 19-48-31	-	-	300.00	300.00	Timber Only
City of Munising	Sand Point Road, 47-18 & 19	11.37	1.00	-	1.00	Conv. #5295.
Marquette County	Right-of-Way, S $\frac{1}{2}$ of SE $\frac{1}{4}$, & SE $\frac{1}{4}$ of SW $\frac{1}{4}$, " 34-47-27	2.90	14.50	35.50	50.00	
Blizel & Blank	N $\frac{1}{2}$ of NE $\frac{1}{4}$, " 16-47-18	-	-	6,964.87	6,964.87	Timber sold on Stumpage Basis. Conv. #5312.
Andrew Hill	W $\frac{1}{2}$ of SE $\frac{1}{4}$, " 13-44-22	80.00	530.00	70.00	600.00	
J. V. Martin	Lot 3, " 28-47-20	-	1.00	-	1.00	Road Easement. Conv. #5314.
The Cliffs Power and Light Co.	Certain lands in Secs. 30 & 31-48-27	-	1.00	-	1.00	Transmission Line Easement. Conv. #5315.
The Cliffs Power and Light Co.	Certain lands in Secs. 2-47-28 and 35-48-28	-	1.00	-	1.00	Transmission Line Easement. Conv. #5316.
State of Michigan	Right-of-Way, W $\frac{1}{2}$ of NE $\frac{1}{4}$, Sec. 16-46-16	-	1.00	-	1.00	Conv. #5317.
Wm. Bonifas Lumber Co.	SW $\frac{1}{4}$ of NE $\frac{1}{4}$, N $\frac{1}{2}$ of SE $\frac{1}{4}$, SE $\frac{1}{4}$ of SE $\frac{1}{4}$, " 36-47-9	-	-	3,000.00	3,000.00	Timber only.
Steve Slambo	NW $\frac{1}{4}$ of NE $\frac{1}{4}$, " 30-44-21	40.00	228.00	72.00	300.00	
Cleveland Milling & Supply Co.	Part of Lot 1, " 15-44-22	-	1.00	-	1.00	Quit Claim Deed to correct error. C.#5326.
Marquette County	Right-of-Way, Secs. 4, 5, 8 & 9, 47-27	10.03	1.00	-	1.00	Conv. #5341.
Waino & Nick Willig	Lot 2, " 10-45-26	-	-	113.75	113.75	Timber Only.
Bernard L. Koopp	NW $\frac{1}{4}$ of NW $\frac{1}{4}$, " 20-47-23	-	-	250.00	250.00	Timber Only.
State of Michigan	Right-of-Way, Secs. 11 and 14-46-19	29.03	122.44	693.00	815.44	
Failo, Ryttonen & Co.	Lands in Secs. 3, 4, and 9-44-24	-	-	20,000.00	20,000.00	Timber Only.
Marquette County	Right-of-Way, Lot 6, " 18-46-29	2.00	1.00	-	1.00	Conv. #5359.
TOTAL		583.28	4,403.07	37,337.52	41,740.59	

Forwarded

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF LAND AND TIMBER SALES FOR THE YEAR 1933.

Brought Forward

SHEET NO. 2.

	UNPLATTED LANDS						PLATTED LANDS				MINERAL RIGHTS RESERVED IN SALES
	FEE	SURFACE ONLY	MINERALS ONLY	LEASED MINERALS	TIMBER ONLY	LEASED SURFACE	FEE	SURFACE ONLY	MINERALS ONLY	TOTAL	
Total Acreage - Acreage Statement Dec. 31, 1932	509,710.58	49,020.50	4,521.17	2,332.78	360.46	489.21	212.77	114.88	283.72	567,046.07	139,279.22
Purchased in 1933 (None)											
Cancelled Contracts (1)	36.79									36.79	36.79
TOTAL	509,747.37	49,020.50	4,521.17	2,332.78	360.46	489.21	212.77	114.88	283.72	567,082.86	139,242.43
Sales in 1933 (2)	461.81	281.35	59.56	80.00		319.60	.67			1,083.87	400.94
Surrendered (3)					320.00					320.00	
TOTAL	461.81	281.35	59.56	80.00	320.00	319.60	.67			1,403.87	400.94
Total Acreage - Acreage Statement Dec. 31, 1933	509,285.56	48,739.15	4,580.73	2,252.78	40.46	169.61	212.10	114.88	283.72	565,678.99	139,643.37

(1) Conveyance #4248.

(2) As per Statement above and Conv. Nos. 5237, 5238, 5239, 5300, 5305, 5311, 5319.

(3) Conveyance #5236.

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31, 1933.

TOWN	RANGE	UNPLATTED LANDS					PLATTED LANDS				MINERALS RESERVED IN FARM LAND SALE	
		FEE	SURFACE	MINERALS	LEASED MINERALS	TIMBER ONLY	LEASED SURFACE	FEE	SURFACE	MINERALS		TOTAL
45	1 E.											120.00
45	1 E.	120.00									120.00	160.00
46	1											80.00
47	1	40.00									40.00	
45	2											123.13
46	2	2,726.31									2,726.31	3,126.30
47	2	1.18									1.18	290.35
45	3	166.56									166.56	
46	3	519.00									519.00	2,694.31
47	3											1,160.00
46	4											120.00
47	4											222.50
43	5	193.36									193.36	206.64
45	5	80.00									80.00	720.00
46	5											882.71
47	5											160.00
44	6	288.30									288.30	540.05
45	6											2,109.99
46	6											280.00
44	7	120.00									120.00	4,153.59
45	7											671.27
46	7	211.26									211.26	640.00
47	7	338.81									338.81	
48	7	658.67									658.67	
49	7	758.25									758.25	
44	8	76.88									76.88	
46	8	2,311.92									2,311.92	
47	8	6,957.72									6,957.72	
48	8	4,497.89									4,497.89	543.63
49	8	3,923.04									3,923.04	
50	8	160.00									160.00	
44	9	40.00									40.00	
46	9	512.23									512.23	200.00
47	9	17,793.74									17,793.74	
48	9	4,136.58									4,136.58	
49	9	800.00									800.00	
50	9											23.00
45	10	840.00									840.00	600.00
46	10	254.54									254.54	46.18
47	10	14,579.08									14,579.08	40.00
48	10	14,414.01									14,414.01	120.00
49	10	3,385.47									3,385.47	30.52
43	11	160.00									160.00	320.00
44	11	277.00									277.00	
46	11	4,102.55									4,102.55	480.00
47	11	13,613.88									13,613.88	159.41
48	11	19,552.71									19,552.71	40.00
49	11	745.17									745.17	
46	12	15,330.59									15,330.59	183.41
47	12	16,868.38	198.41								17,066.79	
48	12	21,576.80	160.00								21,736.80	

LAND ACREAGE - DECEMBER 31, 1933.

SHEET NO. 2.

TOWN	RANGE	UNPLATTED LANDS						PLATTED LANDS				MINERALS RESERVED IN FARM LAND SALE
		FEE	SURFACE	MINERALS	LEASED MINERALS	TIMBER ONLY	LEASED SURFACE	FEE	SURFACE	MINERALS	TOTAL	
49	12	8,229.41									8,229.41	
50	12	359.65									359.65	
45	13											1,273.71
46	13	913.25									913.25	400.00
47	13	5,174.53									5,174.53	
48	13	19,469.63	114.51								19,584.14	
49	13	16,320.85									16,320.85	80.00
50	13	164.35									164.35	
42	14											35.00
43	14											236.85
45	14	440.00									440.00	
46	14	840.00									840.00	
47	14	6,069.80	437.25								6,507.05	
48	14	18,922.14									19,475.82	
49	14	9,250.07	360.00								9,610.07	40.00
42	15											1,766.77
43	15											194.10
45	15	80.00									80.00	
46	15	5,392.78	40.00								5,432.78	
47	15	8,786.64	974.20								9,760.84	
48	15	14,179.22	520.00								14,699.22	
49	15	4,850.91	393.59								5,244.50	
41	16											903.65
42	16											14.20
43	16	80.00									80.00	485.50
44	16											80.00
45	16											63.85
46	16	1,456.03									1,456.03	31.06
47	16	3,797.38	240.00								4,037.38	11.40
48	16	6,740.01	495.37								7,235.38	79.25
49	16	1,004.60	600.00								1,604.60	
41	17											5,797.51
42	17	240.00									240.00	1,840.00
44	17											238.69
45	17	601.01									601.01	551.36
46	17	3,297.05									3,297.05	164.00
47	17	7,763.30	200.00								7,963.30	320.00
48	17	4,276.15	201.00								4,477.15	
39	18	2.51									2.51	29.92
41	18	160.00									160.00	800.00
43	18											40.00
44	18	55.78									55.78	160.00
45	18	360.00									360.00	
46	18	9,879.05									9,879.05	3,122.09
47	18	11,236.97	120.00								11,356.97	1,032.64
48	18	520.00									520.00	
37	19	135.60									135.60	371.50
38	19	1,987.71									1,987.71	4,171.18
39	19	537.39									537.39	2,078.36
41	19											360.00
42	19											560.00
43	19											520.00
44	19	4,945.71	40.00								4,985.71	2,121.46
45	19	118.41	40.00			40.46					198.87	2,440.62

LAND AGREEMENT - DECEMBER 31, 1933.

SHEET NO. 3.

TOWN	RANGE	UNPLATTED LANDS					LEASED SURFACE	PLATTED LANDS				MINERALS RESERVED IN FARM LAND SALE
		FEE	SURFACE	MINERALS	LEASED MINERALS	TIMBER ONLY		FEE	SURFACE	MINERALS	TOTAL	
46	19	10,023.75	176.35				37.60	14.33		10,252.03	9,599.82	
47	19	9,291.62	108.18				7.78			9,407.58	577.81	
48	19	6,365.06	638.35							7,003.41		
38	20										358.00	
44	20	6,194.09								6,194.09	797.19	
45	20	1,128.37	600.00							1,728.37	5,177.57	
46	20	14,716.65	80.00							14,796.65	405.09	
47	20	4,702.92								4,702.92	679.09	
48	20	113.96								113.96		
43	21	498.60								498.60	4,566.11	
44	21	2,958.75	555.01							3,513.76	3,519.39	
45	21	2,745.71								2,745.71	3,985.12	
46	21	8,267.52	80.00				1.02			8,348.54	4,114.13	
47	21	4,147.57								4,147.57	988.16	
48	21	963.48								963.48		
40	22						.20			.20		
41	22	3.46								3.46	215.54	
42	22										878.09	
43	22										80.00	
44	22		520.00							520.00	6,553.63	
45	22	3,474.50	280.00							3,754.50	2,384.11	
46	22	4,465.87	234.32							4,700.19	11,363.14	
47	22	6,456.00	1,786.61							8,242.61	870.14	
48	22	2,140.09	240.00							2,380.09		
39	23	240.00								240.00		
40	23										160.00	
42	23	240.00								240.00	3,149.01	
43	23	680.00								680.00	1,120.00	
44	23										326.53	
45	23	514.56	3,250.47							3,765.03	784.93	
46	23	1,521.12	9,695.66							11,216.78	705.20	
47	23	2,400.00	5,534.90							7,934.90	160.00	
39	24	40.00								40.00	200.00	
41	24										400.00	
44	24	1,840.32	5,164.45							7,004.77		
45	24	877.37	2,624.88							3,502.25	124.63	
46	24	1,986.37	160.00							2,146.37		
47	24	240.00								240.00	40.00	
44	25	614.35			43.23					657.58		
45	25	1,442.57	659.49		393.37		56.26	58.76		2,610.45	1.65	
47	25	5,921.29	450.47							6,371.76	280.28	
48	25	2,546.51	160.00						1.04	2,707.55	1,968.67	
49	25	40.14								40.14	831.90	
44	26										162.91	
45	26	197.47								197.47	730.02	
46	26	185.00								185.00		
47	26	7,863.38	285.53	280.05						8,574.04	2,497.31	
48	26	3,118.80	661.32	59.11	157.50			41.71	20.60	4,018.20	1,902.29	
49	26	600.00	3,654.40						18.47	4,254.40	153.04	
50	26										240.00	
51	26	89.65	570.01							659.66	160.00	
46	27	81.68								81.68	40.00	

LAND ACREAGE - DECEMBER 31, 1933.

SHEET NO. 4.

TOWN	RANGE	UNPLATTED LANDS					PLATTED LANDS				MINERALS RESERVED IN FARM LAND SALE	
		FEE	SURFACE	MINERALS	LEASED MINERALS	TIMBER ONLY ²	LEASED SURFACE	FEE	SURFACE	MINERALS		TOTAL
47	27	11,515.65	161.77	801.40	378.65		111.60	122.75	.44	197.95	13,290.24	3,098.14
48	27	2,760.23	1,549.85	1,120.00							5,430.08	2,491.88
49	27	799.76									799.76	119.52
50	27											180.00
51	27	1,449.17	79.03								1,528.20	520.00
52	27	40.00									40.00	
47	28	1,733.73	73.50	75.00	727.94						2,610.27	5.00
48	28	2,945.64									2,945.64	4.00
50	28	1,921.62	789.33								2,710.95	160.00
51	28	3,320.00	840.00								4,160.00	109.05
52	28											240.00
50	29	739.14									739.14	
51	29											531.40
52	29	2,120.00									2,120.00	704.25
45	30	46.20	160.00								206.20	
46	30	586.80	160.00								746.80	345.70
47	30	327.90	860.96								1,188.86	80.00
48	31	60.00	120.00								180.00	
52	31											40.00
49	33			36.55							36.55	
50	33			40.00							40.00	
43	34				160.00						160.00	
47	34	40.00		1,964.68							2,004.68	
50	34	415.92									415.92	40.00
43	35		80.00		120.00						200.00	
48	39											711.57
49	39											480.00
45	29		1.70								1.70	168.49
46	29	1,196.32		146.64							1,342.96	224.50
47	29	40.00									40.00	80.00
48	30											56.00
43	31	115.22									115.22	
42	33				120.00						120.00	
44	33											80.00
50	22 Minn	440.00									440.00	934.56
49	23			2.50							2.50	189.96
50	23	670.59		54.80							725.39	377.39
46	25											280.05
47	25											39.75
46	26											440.00
57	22								.51(Nashwauk)		.51	
58	15				152.09						152.09	
59	15						1.75		1.08		2.83	
57	20		4.50						.69		5.19	
45	1 E. Wis.	133.33									133.33	
47	29 Minn.	160.00									160.00	
	TOTALS	509,285.56	48,739.15	4,580.73	2,252.78	40.46	169.61	212.10	114.88	283.72	565,678.99	139,643.37

CAJ:MD-2.
2/16/34.

THE CLEVELAND-CLIFFS IRON COMPANY & SUBSIDIARY COMPANIES
ACREAGE STATEMENT - LANDS OWNED AND CONTROLLED SHOWING OWNERSHIP BY COMPANIES

DECEMBER 31, 1933

COMPANIES	UNPLATTED LANDS					LEASED SURFACE	PLATTED LANDS			TOTAL ACRES	ACRES OF LAND NOT TIMBERED "H"	ACRES OF LAND TIMBERED "I"	LANDS ON MINERAL FORMATION "J"	MINERAL RIGHTS RESERVED IN SALES "K"
	FEE "A"	SURFACE ONLY "B"	MINERALS ONLY "C"	LEASED MINERALS "D"	TIMBER ONLY "E"		FEE	SURFACE ONLY "G"	MINERALS ONLY					
CONSTITUENT COMPANIES (Entire Stock Owned by The C.C.I.Co.) The Cleveland-Cliffs Iron Company	509,285.56	48,739.15	4,590.73	2,252.78	40.46	169.61	212.10	114.88	283.72	565,678.99	185,066.97	390,612.02	56,080.90	139,643.37
ALLIED COMPANIES (A portion of the stock only owned by The C.C.I.Co.)														
The Togaues Mine Co.	2.40	3.49		213.36				8.55	103.53	227.80	227.80		198.40	
Arotic Iron Company	990.48		37.98							1,131.99	1,131.99		288.02	93.06
The Athens Iron Mining Co.	44.57	.22	17.39	21.61				4.23		88.02	88.02		83.57	
Bunker Hill Mining Co.	43.10		10.20							53.30	53.30		53.30	
Lucky Star Mining Co.	49.74									49.74	49.74		49.74	
Michigan Mineral Land Co.	17,551.04	555.56	11,775.84							29,552.44	29,552.44		28,408.34	
TOTAL ALLIED COMPANIES	18,381.33	559.27	11,841.41	234.97				12.78	103.53	31,133.29	31,133.29		29,161.37	93.06
ASSOCIATE COMPANIES (The C.C.I.Co. has no ownership but acts as agent) American Iron Mining Co.	2,321.95		494.55							2,816.50	2,816.50		2,816.50	
GRAND TOTALS OWNED AND CONTROLLED - ALL COMPANIES	529,988.84	49,298.42	16,916.69	2,487.75	40.46	169.61	212.10	127.66	387.25	599,628.78	219,016.76		88,068.77	139,736.43

"A" - Lands where entire fee is owned.
 "B" - Lands where surface only is owned.
 "C" - Lands where minerals only are owned in known mineral district.
 "D" - Lands where our interest is confined to a mining lease.
 "E" - Lands where timber only is owned.
 "G" - Lands where we own the entire fee, surface only, or minerals only in lands which are a part of recorded plats of towns or villages.

"H" - Lands which have been examined and which reports show do not contain sufficient timber to be classed as timber land.
 "I" - all lands not included in "H". This includes both lands that have been examined and other lands which have not but which were purchased for timber purposes and are classed as timber lands until such time as reports will show that they are barren either through fire or through operations of the Lumbering Department.
 "J" - Approximate acreage of lands inside the mineral formation as indicated by maps furnished to the Land Department by the Mining Department, April 1914.
 "K" - Acres of minerals reserved in farm land sales, outside of mineral formation.

ACREAGE STATEMENT - LANDS OWNED AND CONTROLLED SHOWING OWNERSHIP BY COMPANIES

DECEMBER 31, 1933

SHEET NO. 2.

COMPANIES	UNPLATTED LANDS				TIMBER ONLY "P"	LEASED SURFACE	PLATTED LANDS			TOT TOTAL ACRES	ACRES OF LAND NOT TIMBERED "H"	ACRES OF LAND TIMBERED "I"	LANDS ON MINERAL FORMATION "J"	MINERAL RIGHTS RESERVED IN SALES "K"
	FEE "A"	SURFACE ONLY "B"	MINERALS ONLY "C"	LEASED MINERALS "D"			FEE	SURFACE ONLY "G"	MINERALS ONLY					
Total Acreage Dec. 31, 1932 Purchased During 1933 The Cleveland-Cliffs Iron Company - None Cancelled Contracts (2)	529,983.85	49,579.77	16,748.60	2,567.75	360.46	489.21	212.77	127.66	387.25	600,457.32	217,905.77	382,551.55	88,138.77	139,372.28
TOTAL	530,020.64	49,579.77	16,748.60	2,567.75	360.46	489.21	212.77	127.66	387.25	600,494.11	217,942.56	382,551.55	88,138.77	139,335.49
Sales - The Cleveland-Cliffs Iron Co. American Iron Mining Co. (3)	461.81	281.35	59.56	80.00		319.60	.57			1,083.87	984.34	99.53	80.00	400.94
Surrendered - The C.C.I.Co. (4) Operated & Classification Changed					320.00					320.00		320.00		
The Cleveland-Cliffs Iron Co. Michigan Mineral Land Co. (5)	438.54		100.00							538.54	1,520.00	1,520.00		
American Iron Mining Co.	4.90		4.90											
TOTAL	31.80	281.35	168.09	80.00	320.00	319.60	.57			865.33	1,074.20	1,939.53	80.00	400.94
TOTAL ACREAGE DEC. 31, 1933	529,988.84	49,298.42	16,916.69	2,487.75	40.46	169.61	212.10	127.66	387.25	599,628.78	219,016.76	380,612.02	88,058.77	139,736.43

- (1) In addition The C.C.I.Co. owns Hardwood Saw Timber Rights on 2,604.80 Acres
- (1) " " " " " Cedar Timber on 14,141.97 "
- (2) Conveyance No. 4248.
- (3) Conveyance No. 5353
- (4) Conveyance No. 5236
- (5) Abandoned Lands Reinstated

This statement does not include the lands of The Cliffs Power and Light Co.

ARCTIC IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE

DECEMBER 31, 1933

TOWN	RANGE	UNPLATTED LANDS		PLATTED LANDS	TOTAL	MINERALS RESERVED IN SALES
		FEE	MINERALS	MINERALS		
47	25	32.12			32.12	
47	26	810.36	4.43	88.03	902.82	93.06
48	26	148.00	33.55	15.50	197.05	
TOTAL		990.48	37.98	103.53	1,131.99	93.06

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2/1/34.

A M E R I C A N I R O N M I N I N G C O M P A N Y

LAND DEPARTMENT

LAND ACREAGE

DECEMBER 31, 1933

TOWN	RANGE	UNPLATTED LANDS		
		FEE	MINERALS	TOTAL
47	31	475.98	78.42	554.40
48	31	1,845.97	416.13	2,262.10
TOTAL		2,321.95	494.55	2,816.50

CAJ:MD-2.
2/12/34.

