FOURTH BIENNIAL REPORT

OF THE

STATE INSPECTOR OF OILS

TO THE

GOVERNOR OF IOWA.

JUNE 30, 1891.

PRINTED BY ORDER OF THE GENERAL ASSEMBLY

DES MOINES: G. H. RAGSDALE, STATE PRINTER, 1891.

REPORT OF STATE OIL INSPECTOR.

To Hon. Horace Boies, Governor of Iowa:

Sir-In compliance with the statutes governing the inspection of illuminating oils I submit herewith my report as State Inspector of Oils, during the fifteen months of my official term, beginning April 1st, 1890, and terminating June 30th, 1891.

Shortly after my term of office began I received from my predecessor in office reports of inspection for the nine months previous, which reports are included herein and made a part of this report.

I found, when assuming charge of the office, deputies stationed as follows: At Keokuk, Davenport, Dubuque, Marion, Des Moines, Council Bluffs, Sioux City, Humboldt, Mason City, Cedar Falls.

At this time inspectors are located as follows:

J. J. Dunn	Dubnane
F. O. Udall	Dubuque
Chas. F. Reffley	Kaalenle
W. G. Mercer	Purlimeter
Wm. Brohn	Downson.
AF 20 VF 4	· · · Davenport.
M. P. Healy	Cedar Rapids.
E. C. French	Ottomwa
I. Van Metre	Waterley.
CO. TT. TT. 12	waterioo.
Geo. W. Hyatt	Fort Dodge.
John Morris	Des Moines
Ed. L. Gardner	Knownillo
Escale O MCM	Knoxviile.
Frank S. Widl	Marshalltown.
E. Rosch	Council Bluffa
C. K. Smith	C: C'
	SIOUX City.

The appointment of additional deputies and creation of new stations was found to be necessary in order to better protect the people of the State, prevent violations of the law and prevent the use of the stencils by others than deputies or those under their personal supervision and control.

I have made it a special duty in every station in the State where there is a storage tank and no resident deputy to see that the person to whom is given custody of the stencil is not directly or indirectly interested in the manufacture or sale of petroleum or its products, and is under the personal supervision and control of the Inspector to whose district the station belongs.

When I assumed charge of the office of Inspector I found two deputies in the city of Des Moines who had charge of the Knoxville station in addition to the three houses or plants in Des Moines. Each was equally responsible to the State Inspector for the district and the management of affairs therein, and one not more than the other in case of violation or accident. I concluded it best to change this and appointed a deputy at Knoxville, who is responsible for that station, and one in the city of Des Moines, who is given a salaried assistant under his personal supervision and control.

The district including Marshalltown and Cedar Rapids, whose deputy had headquarters at Marion, I divided, and appointed a deputy at Marshalltown and one at Cedar Rapids.

The Keokuk district I also divided, appointing one deputy at Keokuk and another at Ottumwa, and to the latter added part of the former Council Bluffs district.

The district of Mason City I found had for twelve months prior to June, 1890, but sixteen hundred and ninety-five barrels of oil inspected and branded. The deputy, with headquarters there, resigned and I attached that to the stations of Eagle Grove and Fort Dodge and appointed a deputy at Fort Dodge for the district.

In the latter part of 1890 I sent an order to each deputy in the State as follows:

To...... Deputy Inspector of Oils,

The revised rules and regulations for the inspection of illuminating oils in Iowa provide that the Inspector's brand must be placed on the package, cask or barrel with bright colors in clear distinct letters, and must be affixed by the Inspector in person or by some person under his personal supervision and control, who is not directly or indirectly interested in the manufacture or sale of any product of petroleum.

No package shall be branded previous to being filled with oil. The brand of an inspector is deemed to be his official signature and must not be permitted to pass out of his custody or control. If this rule, or any portion of it, has been in the past violated at your station, you will at once proceed to comply with the rule as herein set forth. You will see that if through pressure of business, sickness or absence, you cannot attach the brands in person, under no circumstances are you permitted to allow this work to be done by any person interested directly or indirectly in the manufacture or sale of petroleum or its product.

You must have the branding done by some one under your personal supervision and control.

Please acknowledge receipt of this.

(Signed.)

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J. J. DUNN, State Inspector of Oils for Iowa.

Within a reasonable length of time after the issuance of this order I received from all deputies acknowledgments of the receipt of the order and statements showing a strict compliance therewith. And I feel at this writing that the rules regarding stencils are being obeyed at every station in Iowa.

EXPLOSIONS.

It affords me pleasure to be able to report that no explosion of kerosene oil has occurred in Iowa during the fifteen months of my incumbency of the office. When newspaper accounts of fire originating in kerosene lamps were received I caused the same to be thoroughly investigated and in each case found no explosion, the real cause being carelessness, the oil used was up to the required flash test, no loss of life, no injury to person, and very little damage to property.

No deliberate and intentional violations of the law have occurred since my term of office began. Iowa wholesale dealers are familiar

with its provisions and obey them,

Some parties have been in the habit of buying oil by the barrel outside of the State. This oil is sold by agents who tell the purchaser it is all right. When the oil is received the purchaser proceeds to use or divide it with his neighbor without first having the same inspected. This of course constitutes a violation and when discovered and called to answer the charge be admits the offense, says he thought the Milwaukee or Chicago Inspector's brand was sufficient, and promises to be careful in the future. Some cases of this kind are pending, some have been dismissed, but in all cases of violation known to this department the facts have been presented to the county attorney or grand jury for prosecution.

I attach hereto a statement of number barrels of oil rejected, number barrels of oil approved, number barrels of gasoline rejected for illuminating purposes, and amount of fees for same for the term beginning July 1st, 1879, and ending March 31st, 1890, as per reports turned over to me by my predecessor in office. I also attach statement of number of barrels of oil rejected, number of barrels of oil approved, number barrels of gasoline rejected for illuminating purposes and amount of fees received for same for the term commencing April 1st, 1890, and ending June 30th, 1891.

This latter statement is from the beginning of my term of office and shows:

The number barrels oil rejected	3,400
The number barrels oil approved	231,057
The number barrels gasolene rejected	84,142
Total amount of fees for same\$2	27,652.80
Expense of Inspector's office including surplus stationery, postage, travel-	
ing expense, salary, and commission of Deputies and helpers 2	2,841.66
Balance for fifteen months	

REPORTS OF INSPECTORS.

Report of inspection for the month of July, 1889.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udail		2,179 1,257	1,542	306.00 156.65
Geo, L. Stearns		1,418	920	187.80
J. K. Mason		601	685	91.85
Chas. Beardsley		428	516	68.10
M. Stone		498	896	94.60
F. R. Laird		596	1,272	123.20
H. Keerl	***	113	111	16.85
W. H. Lynchard		439		89.50
J. B. Swineburne		319		41.60
E. P. Heizer		407	560	68.70
Total	110	8,250	8,177	1,244.85

Report of inspection for the month of August, 1889.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udall	115	3,430 884	1,300 \$	419,50 97,50
Geo. L. Stearns		1,657	879	209.65
F. N. Chase	115	138	******	25,30
J. K. Mason		1,192	508	144.60
Charles Beardsley		759	746	113,20
M. Stone	555	1,011	813	141.75
F. R. Laird		648	1,064	118.00
H. Keerl		111	111	16.65
W. H. Lynchard		710	875	114.75
J. B. Swinburne		126	221	23.65
E. P. Heizer	****	848	660	117.80
Total	230	11,514	7,859 8	1,542.35

Report of inspection for the month of September, 1889.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udall John Behrens. Geo. L. Stearns F. N. Chase. J. K. Mason. Chas. Beardsley M. Stone. F. R. Laird. H. Keerl W. H. Lynchard J. B. Swinburne. E. P. Heizer.	3	2,318 1,832 2,022 300 2,471 1,676 1,062 2,079 111 1,953 990 949	445 194 615 696 110 692 332	310.70 219.05 239.00 3.00 269.65 177.30 136.95 242.70 16.60 230.40 115.60 121.20
Total	10	17,494	6,635 \$	2,082,15

Report of inspection for the month of October, 1889.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No barrels of gus- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udail	. 65	6,262 3,062	106	\$ 638.00 240.70
John Behrens J. K. Mason		2.280	82	232.20
Chas, Beardsley		2,280 1,788 2,786	******	178.80
Geo. L. Stearns		2,786	662 272	311.70
M Stone		2.849	272	298.50
F. R. Laird		2,150	560	243.00
H. Keerl		271	*******	27.10
W. H. Lynchard		1,649	393	184.55
J. B. Swinburne		1,488	223	159.95
F. N. Chase	64.66	1,334	575	162.15
E. P. Heizer		1,554	359	173.35
Total	. 66	27.473	3,922	\$ 2,950.00

Report of inspection for the month of November, 1889.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gus- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udall John Behrens W. H. Lynchard Geo. L. Stearns	****	2,142 1,830 1,172 1,453 478	82 256 334	\$ 221.00 187.10 131.50 162.00
F. N. Chase. J. K. Mason Chas. Beardsley M. Stone	1	1,468 336 1,540	115	47.30 152.65 33.60 166.05
F. R. Laird. J. B. Swinburne E. P. Heizer.		1,818 441 1,174	814 83 268	147.00 48.25 184.20
Total	103	13,342	1,728	\$ 1,430.65

Report of inspection for the month of December, 1889.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udall John Behrens Geo. L. Stearns J. K. Mason Chas. Beardsley M. Stone F. R. Laird W. H. Lynchard F. N. Chase. J. B. Swinburne H. Keerl E. P. Heizer		4,092 3,242 2,639 2,576 2,455 1,833 2,183 2,535 970 972 833 1,480	111 305 225 330	420,20 329,75 279,15 268,85 245,50 199,80 239,15 269,15 97,00 97,20 37,40 162,30
Total	110	25,310	2,069	2,645.45

NAME OF INSPECTOR.	No. barrels of oil rejected.	HARRY	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udail		3,909 2,870	404 \$ 83	411.10 291.15
George L. Stearns		2,803	222	291.40
J. K. Mason		2,807 1,239	114 301	286.40 138.95
M. Stone	***	1,566	101	161.55
F. R. Laird		2,766	556	304.40
W. H. Lynchard		2,008	198	210.70
F. W. Chase		1,163	356	134.18
J. B. Swinburne	1	1,057	111	111.35
H. Keerl		154	324	15.40 163.50
E. P. Heizer		1,473	324	103.50
Total	1	23,815	2,770 \$	2,520.10

Report of inspection for the month of February, 1890.

NAME OF INSPECTOR.	No. barrels of oil rejected.	o.	No barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udali	1:::	3,258	387 \$	345.15 253.65
Geo. L. Stearns		2,402	406	260.50
J. K. Mason		1,058	193	115.45
Chas. Beardsley		1,467	406	167.00
M. Stone.		942	110	99.70
E. R. Laird		958 193	286 110	110.10 24.80
H. Keeri		710	110	71.00
W. H. Lynchard.		1,304	330	146.90
J. B. Swinburn		241	110	29.60
J. B. Swinburn E. P. Heizer		1,028	369	116.25
Total	. 112	15,944	2,690 \$	1,740.10

Report of inspection for the month of March, 1890.

NAME OF INSPECTOR.	jected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udail. John Behrens George S. Stearns J. K. Mason		1,956 2,305 1,890 1,510	390 8 29 217 222	231.95 199.85 163.10
Charles Beardsley M. Stone F. R. Laird M. Keerl	***	652 1,261 856 144	330 319	65,20 142,60 101,55 14,40
F. N. Chase W. H. Lynchard J. B. Swinburne E. P. Heizer	4	262 1,056 546	389 200 338	45.65 116.00 54.60 108.90
Total	4	13,358		1,457.90

Consolidation of inspections by months from July 1, 1889, to March 31, 1890.

MONTHS.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes,	Amount of fees.
1889.	1	0.010	0.455	
July		8,250 11,514		\$ 1,244.85 1.542.35
August September.	10	17,494	6,635	2,082.15
October		27,473		2,950.00
November	103	13,342	1,723	1,430.65
December	110	25,310		2,645.45
1890.	-			
January	112	23,815		
February	112	15,944		1,740.10
March	4	13,358	2,434	1,457.90
Total	746	156,500	37,779	\$ 17,613.55

Report of inspection for the month of April, 1890.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
F. O. Udall John Behrens. F. N. Chase. Geo. I. Stearns M. Stone. J. K. Mason F. R. Laird H. Keerl	110	540 2,226 1,411	100 266 691 280 704 793 73	129.15 60.30 44.20 172.75 65.50 257.80 180.75 3,65 87.35
W. H. Lyncharde. J. B. Swinburne. E. P. Heizer. C. K. Smith.		681 539 256	143 275 164	75,25 67,65 35,50

Report of inspection for the month of May, 1890.

NAME OF INSPECTOR.	No. barrels of oil rejected.	barrels	No barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn. F. O. Udall John Behrens. H. Keerl Geo. L. Stearns J. K. Mason. F. N. Chase F. R. Laird W. H. Lynchard. J. B. Swinburne C. K. Smith	5	1,304 1,257 155 390 1,572 676 1,013 539 284 629	1,561 8 1,274 111 720 570 442 916 607 268 531	208.45 189.40 21.05 75.00 186.20 89.70 147.10 84.25 38.80 90.45
Total		7,789	7,000 \$	1,130.40

Report of inspection for the month of June, 1890.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gue- oline rejected for illuminating purposes.	Amount of feer.
J. J. Dunn F. O. Udall. John Behrens. F. N. Chase. Geo. L. Stearns L. S. Sauer. C. F. Reffley. E. C. French F. S. Widl John Morris. Geo. W. Hyatt. C. K. Smith	4	1,989	836 175 194 1,303 333	252.85 107.25 58.55 20.50 21.75 148.10 42.05 73.80 264.05 40.85 96.95
Total	14	8,645	5,228	\$ 1,126.70

Report of inspection for the month of July, 1890.

NAME OF INSPECTOR.	ected.	approved.	oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn F. O. Udall John Behrens. E. C. French C. F. Reffley L. S. Sauer 1. Van Metre E. Rosch F. S. Widl John Morris. Geo. W. Hyatt C. K. Smith		1,775 1,136 201 604 446 586 264 191 1,867 646 535	1,575 * 1,040 536 983 733 623 1,132 376 3,198 692 905	256.25 165.60 46.90 109.55 81.25 89.75 83.00 37.90 346.60 99.20 98.75
Total		8,251	11,793 \$	1,414.75

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Report of inspection for the month of August, 1890.

	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn F. O. Udall		2,431 908 343 1,358 1,115	569	35.25 164.25 122.60
L. S. Sauer. I. Van Metre John Morris E. Rosch F. S. Widl. George W. Hyatt	••••	610 411 2,167 919 382 629	404 1,113	89.05 61.20 272.35 110.30 56,15
C. K. Smith		817 12,090	869	74.00 125.15 1,519.40

Report of inspection for the month of September, 1890.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn		4,667	858	\$ 509.60
John Behrens		1,148	******	114.80
Wm. Bruhn.	1.727	962	82	100,30
C. F. Reffley		1,036	209	114.05
W. G. Mercer		1,576	298	172.50
I. Van Metre		1,176	332	129.20
E. C. French		746	111	80.15
L. S. Sauer	111	2.546	621	296.65
John Morris	5	2,734	1,163	332.05
E. Rosch		2,231	1,757	310.95
E. L. Gardner	82	110	110	24.70
Geo. W. Hyatt		1,386	529	165.05
F. S. Widhard		844	294	99.10
C. K. Smith	****	926	762	130.70
Total	198	22,088	7,026	\$ 2,579.90

Report of inspection for the month of October, 1890.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn		5,371	221	548.15
F. O. Udall		3,063		306.30
E. L. Gardner	105	316		48.00
W. G. Mercer	100	2,840	800	324.90
C. F. Reffley		1.881	225	199,35
E. C. French		1,825	317	148.35
John Morris.	259	4,640		559.25
I. S. Samer	83	1.127	884	137.70
E Rosch		2,537 1,335	1,018	304.60
V & Widl	(E)6.4	1,335	306	148.80
Geo. W. Hyatt		1,126	277	126.45
I Van Metre	cees	2,104		219.05
C. K. Smith		1,518	647	184.15
Total	447	29,192	5,823	8,255,05

Report of inspection for the month of November, 1890.

NAME OF INSPECTOR.	No. barrels of oil rejected.		No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn	303	8.207	472 \$	374.60
F. O. Udall	,	2,793	350	296.80
Wm. Bruhn. W. G. Mercer		1,966		196.60
E. C. French		617	*******	61.70
C. F. Reffley	. 5	904	111	96 45
E. L. Gardner	1114	307	******	42.10
John Morris	. 421	3,517	637 227 242	425.65
L. S. Sauer		1,165	221	118,85 144,30
E. Rosch		1,322	242	85,90
F. S. Widl	1	1 004	92 333	205.05
Geo. W. Hyatt	1 1114	1,884 729	262	86.10
I. Van Metre		1,501	483	174.25
Total	854	20,725	2,818	2,318.35

175.80 152.00

2,639 \$ 3,029.75

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NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. burrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn,	110	4,760	666	\$ 520,30
F. O. Udall	4	2,912		291.20
Wm. Bruhn		100000000000000000000000000000000000000		344.05
W. G. Mercer		4 20 4 3		180,30
C. Reffley	219			196.90
L. S. Sauer	809		642	
John Morris				
E. C. French.				139.60
E. Rosch		273200		216.25
E. Rosch		329		32.90
E. L. Gardner F. S. Widl			111	178.05
Geo. W. Hyatt			82	175.80
(400. W. HVALL		4 000	4767.4	770.00

Report of inspection for the month of January, 1891.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes	Amount of fees.
J. J. Dunn		4,938	111	\$ 499.35
F. O. Udall		3,284		328.40
Wm. Bruhn		1,213	20	122.30
O P Deffor	4 4 4 6	269	132	33.50
Tolon Morris	6231	3,487	504 117	396.80 119.05
E C Franch		1,132 1,085	221	119.55
Geo. W. Hyatt		2.044	226	
E. Rosch		2,044 404		40.40
E. L. Gardner		1,724 2,709	286	
F. S. Widl I. Van Metre		2,709	110	
M D Hasle		443		44 30
I. S. Saner	1 2	235		23.95
C. K. Smith	****	1,411	416	161.90
Total	231	24,378	2,148	\$ 2,568.38

Report of inspection for the month of February, 1891.

NAME OF INSPECTOR.	No. barrels of oil rejected.	o, barrels approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn	110	1,578	216 \$	176.60
F. O. Udall		2,451	557	272.95
		1,937	186 222	200,50 98,50
and the Photographs	4114	874 1,791	200	189,55
		905	209 232	101,60
F. S. Widl				128,95
E. L. Gardner.				22.90
John Morris.	. 5	3,043	730 396	341.80
to the same to the		1,592		179.00
I. Van Metre		1,181	232	129.70
Can W Heatt		a ppz		64.80
C. K. Smith		1,095	285	123.75
Total		18,437	3,562 \$	2,033.10

Report of inspection for the month of March, 1891.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Duns F. O. Udall. Wm. Brubn M. P. Healy W. G. Mercer. C. F. Reffley, E. C. French F. S. Widl. John Morris E. Rosch E. L. Gardner Geo. W Hyatt I. Van Metre. C. K. Smith.	115	231 534 1,009	443 \$ 194 224 223 5 222 111 443 1 116 111 445	347,95 150,00 50,30 154,55 85,65 94,60 77,45 198,65 63,45 29,90 58,95 100,90 130,65
Total	. 118	14,033	2,538 \$	1,542.00

1891.)

Report of inspection for the month of April, 1891.

	No. burrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn. F. O. Udall F. O. Udall Wm. Bruhn C. F. Reffley. M. P. Healy W. G. Mercer John Morris E. Rosch E. C. French F. S. Widl I. Van Metre Geo. W. Hyatt C. K. Smith	39	819 1,737 218 622 1,271 1,602 1,265 560 847 1,050 331 761	698 255 152	96.60 173.70 34.55 73.60 157.95 198.05 161.40 68.75 92.30 123.45 38.65
Total	39	11.083	4,207 8	1,322,55

Report of inspection for the month of May, 1891.

NAME OF INSPECTOR.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
J. J. Dunn	[1,545	1,889 \$	248.95
Wm. Bruhn	3	560	1.125	112.25
M. P. Healy		460	527	83.45
W. G. Mercer		623	882	106.40
C. F. Reffley		151	185	24.35
E. C. French		116		31.50
John Morris		1,090	2,457	231.85
E. Rosch		771	1,251	139 65
I. Van Metre	12 1442	1,039	1,461	176.95
Geo. W. Hyatt		443		72.20
F. S. Widl		649	440	86.90
E. I. Gardner		119	118	17.80
C. K. Smith		646	761	192.65
Total	. 111	8,212	12,052 \$	1,434.90

Report of inspection for the month of June, 1891.

No. burrels of oil rejected.	No. barrels of gas- oline rejected for illaminating purposes.	Amount of feer.
J. J. Dunn	769 570 \$	108.10
F. O. Udall	310 588	160.40
M. P. Healy.	642 457	87.05
M. P. Healy. W. G. Morcer	521 255	64.85
C. F. Reffley	529 294	67.60
The last terminal ter	894 509	114.85
The Market Control of the Control of	,194 1,106	174.70
12 Daniely	560 831	98.35
THE CO. ANY LAST. CO. CO. CO. CO. CO. CO. CO. CO. CO. CO	411 875 789 834	59.85
Plan U Houth a carried and a carried	789 334	95.55
w Wine Mindrey	511 861	69.15
C. K. Smith	574 799	97.35
	6.478 8	1,197.80

Consolidation of inspection by months, from April 1st, 1890, to June 30th, 1891.

MONTHS.	No. barrels of oil rejected.	No. barrels of oil approved.	No. barrels of gas- oline rejected for illuminating purposes.	Amount of fees.
April	198 447 854 1,131 231 115 118 30	8,642 8,251 12,090 22,088 29,192 20,725 27,847 24,378 14,032 11,083 8,213	7,000 5,222 11,793 6,208 7,026 5,823 3,209 2,639 2,148 3,552 2,538 2,4207 12,052	1.130.40 1,126.70 1,414.75 1,519.40 2,579.90 3,255.05 2,318.35 3,029.75 2,568.30 2,043.10 1,542.00 1,322.55 1,434.90
Total	10.00	231,057	84,142	\$27,652.80

I may add when reviewing the record made by this department for the past fifteen months: No willful violation of law, few violations.

no loss of life, no injury to person, little if any damage to property, no explosion of kerosene or other illuminating oils. I have had the hearty co-operation of the State Board of Health, and I think a fair

share of the credit for the showing made by this report is due to the efficiency of Mr. L. F. Andrews, Assistant Secretary of the State Board of Health, who has always been ready to assist and aid the Inspectors in the discharge of their duties to promote the efficiency of the depart-

ment and insure the safety of the people of the State.

J. J. DUNN.

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OIL INSPECTORS'
RULES AND REGULATIONS.

THE INSTRUMENTS.

Rule 1. The instrument to be used in testing oil under the provisions of Chapter 185, Acts of the Twentieth General Assembly, as amended by Chapter 149, Laws of the Twenty-First General Assembly, shall be that made by Eimer & Amend, New York, and shall have inscribed thereon the words: "Oil Tester, Iowa State Board of Health," and shall be constructed as shown in the following diagram:

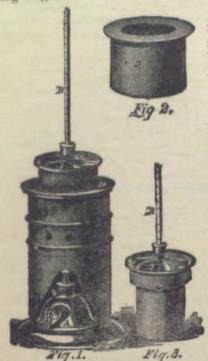


Fig. 1 represents the instrument entire. It consists of a sheet copper stand 8½ inches high, exclusive of the base, and 4½ inches in diameter. On one side is an aperture 3½ inches high for introducing a small spirit lamp, A, or better a small gasburner, instead of a lamp, when gas is available.

The Water-bath, Fig. 2, is also of copper, 4½ inches in height, and four inches in diameter inside, provided with a flanged cover. The opening in the cover 2½ inches in diameter. The flange, which supports the bath in the cylindrical stand is one-fourth inch projection. The capacity of the bath is about 20 fluid ounces, which is indicated by a mark on the inside.

Fig. 3 represents the oil cup, which is also of copper. The section below the flange is 3\\\\\^2\) inches high and 2\\\\^2\) inches in diameter. The section above the flange is 1 inch high, and 3\\\\\^2\) inches in diameter, and serves as the vapor chamber. A small flange at the upper rim serves to hold the cover, which is of glass, in place.

To prevent reflection from the otherwise bright surface of the metal, the inside is blackened by forming a sulphide of ammonia. The capacity of the oil cup is about ten fluid ounces, when filled to within one-eighth of an inch of the flange, which joins the oil

cup and the vapor chamber.

The cover of the oil cup, C, is of glass, 3\(\frac{3}{2}\) inches in diameter; is perforated on one side with a circular opening, which is filled with a cork, through which passes the thermometer, B. On the rim is another oval opening three-fourths of an inch deep, and the same in width, through which is to be passed the flashing jet in testing. The glass cover is used instead of metal, that the operator may more readily note the exact point at which the flash occurs. A small gas jet one-fourth of an inch in length is best for igniting the vapor. Where gas cannot be had, a small waxed linen twine is the best, which can be easily prepared by dipping the twine in melted beeswax.

THE FLASH TEST.

Rule 2. The test shall be made as follows:

Remove the oil cup, and fill the water bath, D, with cold water to the mark on the inside. Place the oil cup in the water bath, and fill it with oil to within one-eighth of an inch of the flange. Care must be taken that oil does not flow over the flange. Remove all air bubbles with a piece of dry, soft paper. Place the glass cover, C, on the oil cup and adjust the thermometer so that its bulb shall be entirely covered by the oil.

Fill the lamp with alcohol only for heating the water bath. Trim the wick carefully, and so adjust the flame that the degree of heat-

ing will not exceed two degrees per minute.

When the temperature of the oil has reached 90° Fahrenheit, the test should commence by inserting the torch, which should have a very small flame, into the oval opening in the glass cover, passing it in at such an angle as to have the flame about half way between the oil and the cover, and reaching near the center of the vapor chamber.

The motion should be steady and uniform, rapid and without

any pause. This should be repeated at every two degrees rise of thermometer until 100° is reached, when the lamp must be removed and the torch applied at each degree of temperature, until 105° is reached. Great care must be exercised to secure accuracy at this point, and to this end the torch should be applied just before the temperature reaches the 105° point. If no flash is shown at this point, replace the lamp and continue the test at each two degrees rise, until the flashing point is reached, which is indicated by the appearance of a slight bluish flame on the surface of the oil. The lowest point at which this vapor flame appears, and a perceptible flash is produced, is to be designated as the flashing point. The temperature of the oil must be noted before the torch is applied. The flame of the torch must not touch the oil. Oil that flashes at 105° or below that, must be rejected.

As cold oil will expand by heating, care must be taken that it does not rise so as to flow over or on the flange or shoulder of the oil cup. That part of the oil cup comprising the vapor chamber must be dry and entirely free from oil above the flange.

The water bath must be filled with cold water, for each separate test, and the oil cup carefully and thoroughly wiped dry of oil from the previous test.

FOR TESTING THREE HUNDRED DEGREES.

Rule 3. The instrument to be used for testing oils which come under the provisions of section ten of the law, shall consist of the cylinder, shown in Fig. 1 of the diagram, the copper oil cup, shown in Fig. 3, the copper collar D, for suspending the oil cup in the cylinder, and an adjustable wire support for suspending the thermometer in the oil.

RULE 4. To ascertain the igniting and burning point, under section ten of the law, the test should be made as follows:

Fill the cup with the oil to be tested to within three-eights of an inch of the flange joining the cup and the vapor chamber above. Care must be taken that oil does not flow over the flange, by expansion from heating. Place the cup in the cylinder, covered with the collar, D. Adjust the wire support so that the thermometer bulb, when supported thereon, will be just covered by the oil, the bulb also being near the center of the cup. Place the lamp or gas jet under the cup. Adjust the flame so that the degree of heating will not exceed ten degrees each minute until 250° Fahren heit is reached, when the rate must not exceed 5° a minute above

that point. The torch to be used must be the same as described in Rule 1, for obtaining the flash point. Apply the torch lightly across and above the surface of the oil at each 5° rise in the temperature, until the oil ignites and burns. The lowest point at which the oil will ignite and burn is to be taken as the burning point, and no oil which burns at a temperature below 301° Fahrenheit must be approved for the purposes set forth in section ten of the law. When approved, the package, cask, barrel or vessel containing the oil from which the oil tested was taken, must be branded, "Approved, above 300° Fire Test," as provided in section one of the law. The actual point at which the oil burns must be branded on the barrel. If it burns at 300° or below that, it must be rejected. In this test the water bath cup and the glass cover are not used, the flame of the lamp being applied direct to the bottom of the oil cup.

GENERAL RULES.*

Rule 5. All instruments, testers and thermometers to be used by inspectors, must be procured from the office of the State Board of Health.

Rule 6. Inspectors must have all previous brands of tests, from packages, casks or barrels removed before affixing their brand thereon.

RULE 7. Brand No. 1 must be circular in form, not less than eight inches in diameter, outside measurement, with ample margin to protect the vessel or barrel from the stensil brush, and must contain the following words: "Approved, flash test degrees, Iowa." And, also the name of the inspector, date of inspection and degree of test. It must also be arranged for adjustible dates, and the degrees of test.

Rule 8. Brand No. 2 shall be square in form, not less than seven inches outside measurement, without date, and must contain the following words: "Rejected for illuminating purposes inspector, Iowa." It must contain the name of the inspector.

Brand No. 3 shall be of like form and dimensions as brand No. 1, and shall contain the words: "For illuminating cars, Approved (or rejected as the for dates, degrees, and the words "approved" and "rejected." It must also contain the name of the inspector. No oil must be approved for illuminating cars that burns at a temperature below 301 degrees Fah.

Brand No. 4 shall contain the word "Rejected," in letters not less than three-fourths inches square, to which shall be added the name of the inspector and the word "Iowa." This brand shall be affixed to packages, casks or barrels containing gasolene, benzene, and naptha.

RULE 9. The inspector's brand must be placed on the package, cask or barrel, with bright colors, in clear, distinct letters, and must be affixed by the inspector in person, or by some person under his personal supervision and control who is not, directly nor indirectly, interested in the manufacture nor sale of any product of petroleum. No package, cask or barrel shall be branded previous to being filled with oil. The brand of an inspector is deemed to be his official signature, and must not be permitted to pass out of his custody or control.

Rule 10. Upon the inspection of oil by an inspector, the inspector shall deliver to the owner of the oil, or the person for whom the inspection was made, a certificate of inspection, which shall be in the following form:

^{*}As amended and adopted by the State Board of Health, November 20, 1800, and approved by the Governor, November 21, 1890,

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APPROVED TEST. Brand of Gil. Degrees.		Total Fees, #	
***************************************		OIL INSPECTOR'S CERTIFICATE.	
APPROVED TEST. Brand of Oil. Degrees. REJECTED TEST.	(BACK.)	(PEESERVE THIS CENTIFICATE.) 8. 159. 169. RECEIVED OF	

Rule 11. Where oil of different grades, or standards, is placed in receiving or storage tanks, an inspection must be made, and the actual standard obtained of oil from such tanks, after it is put into barrels for sale and use. There must be no average test, by taking an average of the different qualities or standards of oil before it is placed in such tanks. Where a number of barrels are filled consecutively from a tank, an inspection of one barrel would suffice for that particular lot of barrels, provided, no oil has been added to the tank during the process of filling the barrels. The barreling, testing and branding must constitute one transaction. There must be no lapse of time therein.

Rule 12. Oil received from jobbers is frequently of various standards, and the actual standard cannot be ascertained except by a separate test of each barrel. The statute plainly requires all oil to be inspected when in barrels, and that each barrel, cask, tank or vessel shall be inspected. There must be no average or cumulative tests. For instance: a sample of oil taken from five barrels of 102 degree oil and five barrels of 108 degree oil, would give a mixture that would, when tested, cause the whole ten barrels to be rejected, whereas five barrels, separately tested, would have to be approved.

RULE 13. The practice of jobbers in delivering oil to retail dealers without inspection is a direct violation of law. The delivery constitutes prima facie evidence of sale. A retail dealer receiving a lot of uninspected oil cannot justify himself for selling such oil on the ground that the jobber is responsible to the State for the violation of law. He should immediately notify the inspector that the oil is in his possession. Inspectors must exercise diligence to arraign offenders and stop the practice. They must, with strict impartiality, insist upon obedience to law in their respective districts.

RULE 14. Oil in transit must not be inspected outside of the district to which it is sent.

RULE 15. No deputy shall inspect oil that has been inspected by another deputy, unless so directed by the State Inspector.

Rule 16. In cases of dispute between an inspector and a dealer as to a test of oil, the question, together with a sample of the oil in dispute, must be sent to the office of the State Board of Health for adjudication.

Rule 17. The sample must be so marked as to be readily identified. Inspectors must regard their duties as inspectors paramount to all other duties, and upon notification, must perform them without delay.

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RULE 18. If accidents occur from the use of illuminating oil, the inspector of the district wherein they occur, should ascertain all the facts and circumstances, and report them to the State Inspector, or to the State Board of Health, and if possible, procure and send by express to the State Board of Health, a sample of the oil causing the accident.

DECISIONS OF THE-ATTORNEY-GENERAL.

Office of the State Board of Health, Des Moines, Iowa, July 1, 1884.

S. McPherson, Attorney-General:

Notice is received at this office that deputy inspectors are disregarding entirely Rule 6 of the State Board of Health, requiring previous brands on barrels to be erased or canceled. This refers only to the words or figures "150° Fire test," or "175° Fire test"; or it may be the degree of test made by some inspector under the old law in this State.

The sole object of this rule is to protect the public against overbranding oil, that is, branding and selling oil at 175° to 150° fire test, when in fact it is but 120° or 130°, according to the Iowa legal standard. Oil that flashes at 100° will burn at 115° to 120°. In all tests made in this office with oil branded by the refiners at 150° fire test, the highest flash test was 110°, and the fire test was 130°. The public do not understand the relative difference between 100° flash test and 150° fire test; hence the desire of refiners to retain the brand of 150° fire test, as it enables them to sell oil at a high grade price when in fact it is only 130° fire test.

It was to prevent this overbranding and fraud upon the public that the law was made requiring the degree of test to be put upon the barrel, and the State Board only more fully carried out that object in Rule 6.

The question, therefore, is, had the State Board authority to make the rule?

Your opinion is requested at as early a moment as possible. Yours truly,

R. J. FARQUHARSON, Scoretary.

OFFICE OF THE ATTORNEY-GENERAL, }
RED OAK, July 11, 1884.

By section 2, chapter 135, Laws of Twentieth General Assembly, the State Board of Health is required to adopt rules and regulations as to the use of the oil tester. By section 14, the Board is to adopt the necessary rules for the inspection of oils, which would include the brand affixed, etc. Under these provisions, Rule 6, complained of, was adopted. I have no reason to say that it is illegal; and do not believe it is. It should be enforced.

S. McPherson, Attorney-General. OFFICE OF THE ATTORNEY-GENERAL, RED Oak, June 19, 1884.

In my opinion it is not an inspection of all oil to mix that from a number of barrels and take the test of the mixture, for the very reason it only shows the average.

S. McPherson, Attorney-General.

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OFFICE OF ATTORNEY-GENERAL, CENTERVILLE, IOWA, Feb. 23, 1885.

BUREN R. SHERMAN, Governor:

I have the honor to acknowledge the receipt of your communication the 18th inst., in which you propound to me the following questions, and solicit my official opinion in response thereto, viz.:

1st. Whether or not the branding of oil by an lowa inspector, at a uniform standard of 100° flash point, is in accordance with the object and intent of section 1, chapter 185, Laws of Twentieth General Assembly?

2d. Is it the intent and purpose of the statute, and the rules of the State Board of Health for the inspection of oils, that the inspector shall brand each barrel, cask or package with the number of degrees of actual flashing point which he finds the oil to be?

3d. Is it the purpose of the inspection to show the actual standard of all oil inspected, and not an average of that it is not below 100° F.?

Section 1, chapter 185, Laws of Twentieth General Assembly, directs the inspector to fix his brand or device, "Approved flash test — degrees" (inserting the number of degrees); or "Rejected for illuminating purposes, flash test — degrees" (inserting the number of degrees).

It would seem that the language is so plain that there could be no two constructions. If the only object had been to test the oils in order to see if they were above 100° hash test, then it would only have been necessary to require the inspector to brand, etc., with the word "approved,"

It was clearly the intent and purpose of both the statute and the rules of the Boar. of Health to require the actual number of degrees of flash test to be plainly stamped on every barrel, cask or parcel inspected. If above 100° to mark it approved; if 100° or less, to mark it rejected for illuminating purposes.

The legislature evidently had two purposes in view in the enactment of the law:

1st. To protect consumers and the public against danger of fire, etc., from the use of inferior and unsafe oils.

2d. To protect consumers and dealers from imposition by selling to them inferior approved oils for superior approved oils.

If the oil emit a combustible vapor at a temperature of 100° standard Fahrenheit closed test, then under the law it is unfit for use. If it emit such combustible vapor at 101°, same test, then it is barely fit for use. Its relative safety, and consequently its relative value, will depend upon the degree above 100° at which it emits such combustible vapor, and it is to enable the purchaser to know just the quality of oil he is buying, and to thus encourage the manufacture of superior oils in point of safety, that the provision for making the actual test was made in law.

The neglect of an inspector to brand the true test on the casks inspected, is a misdemeanor, and subjects him to fine and imprisonment, provided in section 11 of the law, and under the provisions of section 12, would authorize his removal by the Governor.

I am, therefore, clearly of the opinion that it is the duty of the inspector to carefully note and correctly stamp, or brand, on each barrel, cask or package, the exact actual degree of the flash test, and that it is not a substantial compliance with the law to mark an average test, or that the oil is not below 200° F.

A. J. Baker, Attorney-General.

Office of Attorney-General, Des Moines, March 13, 1885.

BUREN R. SHERMAN, Governor:

I have been somewhat tardy in answering your communication of the 2d inst., in relation to the inspection of coal oil, etc.

According to the best analysis I can make of the communication, I judge that the particular information you desire is, whether or not the State Inspector or his assistants are required to test oils in tanks, where several hundred barrels, for instance, are kept stored, and it is claimed to be for export out of the State

If such oils are kept by the manufacturer, vendor or dealer, for the purpose of being offered for sale, whether to parties for export or otherwise, it is subject to inspection.

Section 1, chapter 185, Laws of 1884, provides as follows:

"It shall be the duty of such State Inspector, by himself or his deputies,

to examine and test the quality of all such oils offered for sale,"

etc. There is no distinction made between that offered for sale for use
within the State and that offered for sale for export. But this is to be construed in connection with the remainder of the section in such a way as to
give effect and meaning to each and every part thereof.

Further on in said section it is provided that "it shall be lawful for the State Inspector, or his deputies, to enter into or upon the premises of any manufacturer, vendor or dealer of said oils, and if they shall find or discover any such oils kept for illuminating purposes, that has not been inspected and branded according to the provisions of this act, they shall proceed to inspect and brand the same."

If, then, the oil is kept for sale for illuminating purposes, whether for use within or without the State, the inspector should see that the same is inspected and branded as required by the said chapter 185. He has the right to inspect such oil in tanks, but having done so it becomes his further duty "to see and know that the identical oil inspected in such tank is placed in packages, barrels or casks upon which the brand or device herein provided for shall have been placed."

So I am of opinion that when the inspector finds oil in such tanks, which he has good reason to believe is kept there for the purpose of sale for illuminating purposes, he has the right to demand its inspection, and to see that it goes into barrels, packages, or casks properly branded with the true test.

A. J. Baker, Attorney-General E7

STATE OF IOWA.

CHAPTER 185-ACTS OF THE TWENTIETH GENERAL ASSEMBLY *

AN ACT to provide for the inspection and to regulate the sale of petroleum and its products, and to repeal Chapter 172 of the Acts of the Seventeenth General Assembly, and Section 3901 of the Code, as amended by Chapter 149, Laws of the Twenty-first General Assembly.

Be it enacted by the General Assembly of the State of Iowa:

SECTION 1. That the Governor, by and with the advice and consent of the Senate, shall appoint a suitable person, resident of the State, who is not interested in manufacturing, dealing in, or vending any illuminating oils manufactured from petroleum, as State Inspector of Oils, whose term of office shall commence on the first day of April of each even-numbered year, and continue for the term of two years and until his suecessor is appointed and qualified. It shall be the duty of such State Inspector, by himself or his deputies, hereinafter provided for, to examine and test the quality of all such oils offered for sale by any manufacturer, vender, or dealer: and if upon all such testing or examination the oils shall meet the requirements hereinafter specified, he shall fix his brand or device. "Approved, flash test - degrees" (inserting the number of degrees), with the date over his official signature, upon the package, barrel or cask containing the same. And it shall be lawful for the State Inspector, or his deputies, to enter into or upon the premises of any manufacturer, vender or dealer of said offs, and if they shall find or discover any kerosene oil, or any other product of petroleum kept for illuminating purposes, that has not been inspected and branded according to the provisions of this act, they shall proceed to inspect and brand the same. It shall be lawful for any manufacturer, vender or dealer to sell the oil so tested and approved as an illuminator; but if the oil or other product of petroleum so tested shall not meet said requirements, he shall mark in plain letters on said package, barrel or eask, over his official signature, the words: "Refected for illuminating purposes, flash, test-degrees" (inserting the number of degrees). And it shall be unlawful for the owner thereof to sell such oil or other product of petroleum for illuminating purposes. And if any person shall sell or offer for sale any of such rejected oil or other product of petroleum for such purpose, he shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be subject to a penalty not exceeding three hundred dollars.

SEC. 2. The State Inspector provided for in this act is authorized to appoint a suitable number of deputies, which deputies are empowered to perform the duties of inspection, and shall be liable to the same penalties as the State Inspector; provided, that the State Inspector may remove any of said deputies for reasonable cause. It shall be the duty of the inspector and his deputies to provide themselves at their own expense with the necessary instruments and apparatus for testing the quality of said illuminating oils, and when called upon for that purpose to promptly inspect all oils heretofore mentioned, and to reject for illuminating purposes all oils which will emit a com-

bustible vapor at a temperature of one hundred and five degrees standard Fahrenheit thermometer, closed test, provided the quantity of oil used in the flash test shall not be less than one half plot. The oil tester adopted and recommended by the Iowa State Board of Health shall be used by the inspector and his deputies in all tests made by them. And said board shall prepare rules and regulations as to the manner of inspection, which rules and regulations shall be in effect and binding upon the inspector and deputies appointed under this act.

SEC. 3. The State Inspector before he enters upon the discharge of the duties of his office shall take the oath or affirmation provided by law, and file the same in the office of the Secretary of State, and execute a bond to the State of Iowa in a penal sum not less than twenty thousand dollars with sureties thereto, to be approved by the Secretary of State, who shall justify as provided by law, and in addition thereto state under oath that they are not interested, directly or indirectly, in manufacturing, dealing in. or yending any illuminating oils manufactured from petroleum; such bond to be conditioned for the faithful performance of the duties imposed upon him by this act, and which shall be for the use of all persons aggrieved by the acts of said Inspector, or his deputies, and the same shall be filed with the Secretary of State. Every deputy inspector shall take a like outh or affirmation prescribed herein for the State Inspector. and execute to the State a bond in the penal sum of five thousand dollars with like conditions and for like purposes, and with sureties thereto who shall justify and have like qualifications as herein provided for the sureties for State Inspector and such sureties shall be approved by the Clerk of the District Court of the county in which such deputy inspector resides, and said bond and oath shall be filed in the office of such elerk and such deputy inspector shall before entering upon the discharge of his duties forward said clerk's certificate of such filing to the Secretary of State to be placed on

SEC. 4. All inspections herein provided for shall be made within the State of Iowa, and the inspector and deputy inspectors shall be entitled to demand and receive from the owner or party calling on him or for whom he shall perform the inspection the sum of ten cents per barrel, and for the purposes of this act, a barrel shall be deemed fifty-five gallons.

SEC. 5. It shall be the duty of the State Inspector and every deputy inspector to keep a true and accurate record of all oils so inspected and branded by him, which record shall state the date of inspection, the number of gallons rejected, the number of gallons rejected, the number of gallons approved, the number of gallons inspected, the number and kind of barrefs, casks or packages, the name of the person for whom inspected and the amount of money received for such inspection, and such record shall be open to the inspection of all persons interested; and every deputy inspector shall return a true copy of such record at the beginning of each month to the State Inspector. It shall be the duty of the State Inspector to make and deliver to the Governor for the fiscal period ending the thirtieth day of June. 1885, and every two years thereafter a report of the inspections made by himself and deputies for such period, containing the information and items required in this act to be made of record, and the same shall be laid before the General Assembly.

SEC. 6. If any person or persons, whether manufacturer, vendee [er] or dealer shall sell or attempt to sell to any person in this State any illuminating oil, the product of petroleum, whether manufactured in this State or not, which has not been inspected as provided in this act, he shall be deemed guilty of a misdemeanor and subject to a pensity in any sum not exceeding three hundred dollars, and if any manufacturer, vender or dealer in either or any of said illuminating oils shall falsely brand the package, cask or barrel containing the same, as provided in this act, or shall refill packages, casks or barrels having the inspector's brand thereon, without erasing such brand, having the oil inspected, and such packages, casks or barrels rebranded, he shall be deemed guilty of a misdemeanor, and shall be subject to a penalty not exceeding three hundred dollars, or be imprisoned in the county jail not exceeding six months or both in the discretion of the court.

SEC. 7. Any person selling or dealing in illuminating oils produced from petroleum who shall purchase, sell or dispose of any empty kerosene barrel, cask or package, before thoroughly cancelling, removing or effacing the inspection brand on the same, shall be guilty of a misdemeanor, and, on conviction thereof, shall pay a fine of one dollar for each barrel, cask or package thus sold or disposed of; and any person who shall knowingly use any illuminating oil, the product of petroleum for illuminating

[&]quot;This law is here given as amended by the Twenty-first General Assembly, and as it is in force at the present time. May 20, 1801.

purposes, before the same has been approved by the State Inspector of Oils, or his deputy, shall be gulity of a misdemeanor, and, on conviction thereof, shall pay a fine in any sum not exceeding ten dollars, for each offense.

SEC. 8. No person shall adulterate with parafine or other substance, for the purpose of sale or for use, any coal or kerosene oils to be used for lights, in such a manner as to render them dangerous to use; nor shall any person knowingly sell or offer for sale, or knowingly use any coal or kerosene oil, or any product of petroleum, for illuminating purposes, which, by reason of being adulterated, or for any other reason, will emit a combustible vapor at a temperature less than 105 degrees of standard Fahrenheit's thermometer, tested as provided in this act; provided, that the gas or vapor from said oils may be used for illuminating purposes when the oils from which said gas or vapor is generated are contained in closed reservoirs outside the building illuminated or lighted by said gas. Any person violating the provisions of this section shall be deemed guilty of a misdemeanor, and shall, upon conviction thereof, be punished by imprisonment in the county jall not more than one year, or by fine not exceeding \$500. or by both such fine and imprisonment, in the discretion of the court; provided, further, that nothing in this act shall be so construed as to prevent the sale for and use in street lamps of lighter products of petroleum, such as gasolene, benzele, henzole, naptha, or to prevent the use of machines or generators constructed on the principle of the "Davy

Sec. 9. It shall be the duty of the State Inspector, and of any deputy inspector, who shall know of the violation of any of the provisions of this act, to prosecute before a court of competent jurisdiction any person so offending. And in case the State Inspector, or any deputy inspector, having knowledge of the violation of the provisions of this act, shall neglect to prosecute as required herein, he shall be deemed guilty of a misdemeanor and punished accordingly, and, upon conviction, shall be removed from office.

Sec. 10. No oil, nor fluid, whether composed wholly or in part of petroleum or its products, or of other substance or material, which will ignite and burn at a temperature of 300 degrees on the standard Fahrenheit thermometer, open test, shall be carried as freight, nor shall the same be burned in any lamp, or vessel, or stationary fixture of any kind, in any passenger, baggage, mail or express car on any railroad, nor on any passenger boat moved by steam power, nor in any street railway car, stage coach, omnibus or other public conveyance in which passengers are carried, within this State. Any violation of the provisions of this section shall be deemed a misdemeanor, and the offender shall, on conviction thereof, be fined not less than one hundred dollars, nor more than one thousand dollars, and shall be liable for all damages resulting

SEC. 11. If any inspector or deputy shall falsely brand or mark any barrel, cask or package, or be guilty of any fraud, deceit, misconduct or culpable negligence in the discharge of his official duties, or shall deal in, or have any pecuniary interest, directly or indirectly, in any oils or fluids used or sold for illuminating purposes while holding such office, he shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be fined not exceeding one hundred dollars, or imprisoned not exceeding thirty days, and be liable to the party injured for all damages resulting therefrom.

SEC. 12. It shall be the duty of the Governor to remove from office, and to appoint a competent person in the place of, any inspector who is unfaithful in the duty of his

SEC. 13. Any person who shall knowingly or negligently sell or cause to be sold any of the oils mentioned in this act for illuminating purposes, except for the purposes herein authorized, which are below the standard and test required in this act, shall be liable to any one purchasing said oil, or to any person injured thereby for all damages resulting from any explosion of said oil.

SEC. 14. Within sixty days after the passage of this act the State Board of Health shall make and provide the necessary rules and regulations for the inspection of illuminating oil, and for the government of the inspector and deputy inspectors provided for in this act, and as contemplated by the provisions of this act, which shall be approved by the Governor of the State, and when so approved shall be furnished by said Board to the inspector and his deputies. When written complaint shall be presented to the Governor charging the inspector or any deputy with a failure or refusal to comply with or carry out said rules and regulations, or any provision of this act, he shall investigate such charge, and if well founded and sustained, the person against whom such charges were made shall be removed from office by the Governor without delay. Said rules and regulations may be changed or modified by said board, subject to approval of the Governor, not oftener than once a year,

SEC. 15. Chapter 152 of the acts of the Seventeenth General Assembly, and section 2001 of the Code, are hereby repealed.

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STATE INSPECTOR.

DEPUTY INSPECTORS

F. O. UDALL	DUBUQUE.
JOHN MORRIS	DES MOINES.
CHARLES K. SMITH	SIOUX CITY.
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