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AUCTION SALE

OF

Coal and Asphalt Deposits, Leased and Unleased

IN THE

Choctaw and Chickasaw Nations, Oklahoma

BY THE

United States Government

COAL

UNLEASED			LEASED	
	No. Tracts	Acreage	No. Tracts	Acreage
District—				
McAlester	76	53,409	38	34,503
Wilburton	46	41,894	11	11,153
Stigler	27	25,392	—	—
Howe-Poteau	70	63,979	10	9,594
McCurtain-Massey	90	77,926	16	12,371
Lehigh-Ardmore	63	55,259	9	9,644

ASPHALT

Choctaw Nation.....	1	960	—	—
Chickasaw Nation.....	—	—	4	2,920
TOTAL.....	375	318,819	88	80,185

To Be Offered at

McALESTER, OKLAHOMA, NOVEMBER 13, 14 and 15, 1919.

AUCTION SALE

OF

COAL and ASPHALT DEPOSITS

Leased and Unleased

The COAL and ASPHALT herein described comprise all of such minerals unsold, LEASED and UNLEASED, underlying the segregated area in Pittsburg, Latimer, LeFlore, Coal, Atoka and Pushmataha Counties, in the Choctaw Nation, and Carter and Murray counties in the Chickasaw Nation, Oklahoma, except certain tracts that have heretofore been offered with the entire estate and sold. The area of the coal and asphalt offered consists of 399,004 acres, of the total appraised value of \$13,188,905.56 and is contained in 463 tracts averaging 853 1-8 acres to the tract, of which 375 tracts containing 318,819 acres are UNLEASED and 88 tracts containing 80,185 acres are LEASED. The tracts vary in area from 40 to 1600 acres each, and the minimum prices thereof from \$600.00 to \$108,797.70 per tract, and will be offered for sale at PUBLIC AUCTION in accordance with Act of Congress approved February 8, 1918, (Public No. 98-65th Congress) in front of the POST OFFICE, at 9 O'CLOCK A. M., at McALESTER, OKLAHOMA, November 13, 14 and 15, 1919.

For convenience, COAL AND ASPHALT have been divided into districts, as follows:

District	UNLEASED		COAL		LEASED		Total Appraisalment
	No. Tracts	Acreage	Total Appraisalment	No. Tracts	Acreage		
McAlester	76	53,409	\$1,295,739.30	38	34,503	\$1,116,145.56	
Wilburton	46	41,894	1,385,861.90	11	11,153	795,527.79	
Stigler	27	25,392	981,744.35	---	---	---	
Howe-Poteau	72	63,979	2,044,382.18	10	9,594	330,928.35	
McCurtain - Massey	90	77,926	2,787,011.75	16	12,371	595,549.12	
Lehigh-Ardmore	63	55,259	1,435,273.55	9	9,644	367,752.01	
			ASPHALT				
Choctaw Nation	1	960	9,600.00	---	---	---	
Chickasaw	---	---	---	4	2,920	53,400.00	
	375	318,819	\$9,939,602.73	88	80,185	\$3,259,302.83	

The coal is bituminous and semi-bituminous, and of various grades and qualities, consisting mainly of LOW VOLATILE BUNKER COAL FOR STEAMSHIP USE, HIGH GRADE DOMESTIC COAL, RAILROAD STEAM COAL, HIGH GRADE BLACKSMITH COAL, AND COKING COAL. It is in seams averaging 4 feet thick, with an average dip of from 10 to 15 degrees, outcropping at the surface and existing to a vertical depth below the surface estimated to be 2,300 feet at the deepest part of the basin; some of the present mine workings are under a vertical cover of from 200 to 1,300 feet.

Practically all of the tracks offered are located near cities, towns, and railroads, many being crossed by railroads, making them easily accessible and attractive for mining.

No preference right will be given any person, firm, or corporation to purchase any tract of the coal and asphalt offered except to coal lessees of tracts held by them under existing leases, and the State of Oklahoma to purchase the coal and asphalt underlying the grounds of the State Penitentiary heretofore acquired by purchase. Such preference right to be given only upon compliance with the conditions provided for such purpose by law and the regulations governing the sale.

PROSPECTIVE PURCHASERS SHOULD INSPECT ANY TRACT OR TRACTS THEY MAY DESIRE TO BID ON, AND SATISFY THEMSELVES AS TO THE QUALITY AND CONDITION OF THE COAL AND ASPHALT CONTAINED THEREIN, AS NO GUARANTY IS MADE RELATIVE THERETO.

No person, firm, or corporation will be permitted to acquire more than 4 tracts of 960 acres each, except where such person, firm, or corporation has such tracts under existing valid lease.

BIDS may be submitted in person or by agent with written power of attorney, or by mail addressed to the Superintendent for the Five Civilized Tribes at McAlester, Oklahoma. Minimum and maximum bids sent by mail will also be considered. All bids by mail should

be sent to McAlester, Oklahoma, so as to reach there not later than the hour set for the sale. Certified check, draft, or money order payable to the order of D. BUDDRUS, CASHIER, in an amount equal to twenty per cent (20%) of the maximum bid, must accompany each bid, and each tract must be bid for separately. Bids for a fractional portion of a tract and for less than the minimum price of any tract as advertised will not be considered. All bids will be accepted subject to the approval of the Secretary of the Interior, and, after approval, certificates of purchase will be issued to the purchasers. When full payment is made, patents will be issued conveying to the purchasers, title to the coal and asphalt, as provided by law.

TERMS: Twenty per cent (20%) of the purchase price at the time of the sale, and the remainder in four equal annual installments, payable in one, two, three and four years, respectively, from the date of sale. All deferred payments bear 5 per cent (5%) interest per annum from date of sale. All royalties on tracts now under lease, and on any lease made on or subsequent to the sale and before final payment, must be paid to the Superintendent for the Five Civilized Tribes and be held by him and paid to the purchasers after full payment has been made or in annual installments in the discretion of the Secretary of the Interior.

All sales made shall be upon the express conditions provided for in Section 4 of the Act of Congress approved February 20, 1918 (Public—No. 98, 65th Congress), which reads in part as follows:

"Section 4. That such deposits of coal or asphalt on the leased lands shall be sold subject to all rights of the lessee and that any persons acquiring said deposits of coal or asphalt shall take the same subject to said rights and acquire the same under the express understanding and agreement that the Department of the Interior will cancel and withdraw all rules and regulations and relinquish all authority heretofore exercised over the operation of said mines by reason of the Indian ownership of said property and that said properties thereafter shall be operated under and in conformity with such laws as may be applicable thereto, and that advance royalty paid by any lessee and standing to the credit of said lessee shall be credited by said purchaser to the extent of the amount thereof, and that no royalties shall be paid by said lessee to said purchaser until the credit so given shall be exhausted at the rate of 8 cents per ton mine run, and that the royalty to be paid thereafter by said lessee to said purchaser shall be 8 cents per ton mine run of coal, and that any lessee may, at any time after completion of such sale, transfer or dispose of his leasehold interest without any restriction whatever; and that any lessee shall have the preferential right, provided the same is exercised within ninety days after the approval of the completion of the appraisalment of the minerals as herein provided, to purchase at the appraised value any or all of the surface of the lands lying within such lease held by him and heretofore reserved by order of the Secretary of the Interior and upon the terms as above provided, and shall also have the preferential right, except as herein otherwise provided, to purchase the coal deposits embraced in any lease held by such lessee by taking same at the highest price offered by any responsible bidder at public auction at not less than the appraised value, and if any lessee becomes the purchaser of any coal deposits on any undeveloped lease owned by him, then one-half of the advance royalties paid by any lessee on such lease shall be credited on the purchase price thereof, and any residue of advance royalties heretofore paid by any lessee shall be credited to such lessee on account of any production of coal on any other lease which he may own and operate: And, provided, That nothing herein contained shall be construed as limiting or curtailing the rights of any lessee or owner of mineral deposits from acquiring additional surface lands for mining operations as provided by the Act of Congress of February nineteenth, nineteen hundred and twelve."

Until full payment is made, all mining operations on any LEASED tract sold, and on any lease on any sold UNLEASED tract made subsequent to the sale thereof, and prior to the completion of the payments and issuance of deed, shall be conducted under the supervision of the Representative of the United States Bureau of Mines, and the Mining Trustees of the Choctaw and Chickasaw Nations, at McAlester, Oklahoma, or such other officer or officers as the Secretary of the Interior may designate, and in accordance with existing law and departmental, rules and regulations governing the leasing of coal and asphalt in said Nations.

The sale of the coal and asphalt does not include the surface or right thereto, except that lessees of said minerals have the right to enter upon the surface acquired by them for mining purposes, as provided in Section 3 of the Act of Congress approved February 19, 1912 (37 Stat., L. 67), which reads as follows:

"That sales of the surface under this Act shall be upon the conditions that the Choctaw and Chickasaw Nations, their grantees, lessees, assigns, or successors, shall have the right at all times to enter upon said lands for the purpose of prospecting for coal or asphalt thereon, and also the right of underground ingress and egress, without compensation to the surface owner, and upon the further condition that said nations, their grantees, lessees, assigns, or successors, shall have the right to ac-

quire such portions of the surface of any tract, tracts, or rights thereto as may be reasonably necessary for prospecting or for the conduct of mining operations or for the removal of deposits of coal and asphalt upon paying a fair valuation for the portion of the surface so acquired. If the owner of the surface and the then owner or lessee of such mineral deposits shall be unable to agree upon a fair valuation for the surface so acquired, such valuation shall be determined by three arbitrators, one to be appointed in writing, a copy to be served on the other party by the owner of the surface, one in like manner by the owner or lessee of the mineral deposits, and the third to be chosen by the two so appointed; and in case the two arbitrators so appointed should be unable to agree upon a third arbitrator within thirty days, then and in that event upon the application of either interested party, the United States district judge in the district within which said land is located shall appoint the third arbitrator: PROVIDED, That the owner of such mineral deposits or lessee thereof shall have the right of entry upon the surface so to be acquired for mining purposes immediately after the failure of the parties to agree upon a fair valuation and the appointment, as above provided, of an arbitrator by the said owner or lessee."

DESCRIPTIVE LISTS of the tracts of coal and asphalt offered are for free distribution, which lists give the tract numbers, minimum price of each tract, the area thereof, and general information pertaining thereto.

BLUE-PRINT MAPS OF EACH DISTRICT, showing the tract numbers and area thereof, location of leased and unleased tracts, outcrops, railroads, etc., will be furnished without charge. In addition to the district maps, FRACTIONAL OR SHEET maps of these districts on a larger scale, showing the location of the leased and unleased tracts, approximate worked-out area, mines, railroads, towns, etc., will be furnished for \$1 each. Application therefor should be made to the Superintendent for the Five Civilized Tribes at McAlester, Oklahoma.

WHEN FULL AND FINAL PAYMENT IS MADE FOR ANY TRACT SOLD, AND PATENT THERETO HAS ISSUED, FEDERAL GOVERNMENT SUPERVISION AND AUTHORITY OVER ALL LEASES AND MINING OPERATIONS BY REASONS OF THE INDIAN OWNERSHIP WILL TERMINATE.

The right to waive technical defects in the advertisement and bids, to reject any and all bids, and to approve or disapprove any and all sales, is reserved.

During the advertisement and sale of the coal and asphalt an office will be maintained at McAlester, Oklahoma, where prospective bidders may personally inspect plats, maps, Government reports, analysis of the coal and asphalt, etc., and be furnished with all available information.

FOR FURTHER INFORMATION, or for maps and descriptive lists apply to the Superintendent for the Five Civilized Tribes, McAlester, Oklahoma.

The United States Government sends out no advertising or exhibit cars to advance or exploit the sale of Indian lands. All such concerns are private enterprises in no wise connected with the Government.

GABE E. PARKER,
Superintendent for the Five Civilized Tribes

SCHEDULE OF APPRAISEMENT OF SEGREGATED UNLEASED COAL DEPOSITS.

McAlester District (North Map) Choctaw Nation, Oklahoma.

There are four seams of workable coal in the McAlester District, namely: The lower Hartshorne, the upper Hartshorne, the McAlester and the Secor. The deepest seam is the lower Hartshorne which is workable throughout most of the District. It averages about 4 ft. in thickness, but in the Wilburton District in one or two tracts it has a thickness of 6 ft., but this is exceptional.

The upper Hartshorne seam is workable only in the Wilburton District, as a rule, where it has a thickness of 4 ft. of clean coal and occurs about 50 to 60 ft. above the lower Hartshorne. The upper Hartshorne varies in thickness from 2 to 4 ft.

The McAlester seam lies from 1,200 ft. to 1,300 ft. above the upper Hartshorne and generally varies in thickness from 3 to 4 ft., but in a few instances it reaches a thickness of 5 ft.

The Secor seam lies in a shallow basin above the McAlester seam southwest of the city of McAlester. It is considered to be the same coal as the Witteville and Jones Creek coals. It varies in thickness from 2 ft. to 2 ft. 6 in., usually lying at low angles of dip, close to the surface and can be easily stripped.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Total Appraisalment
1	SE4 of NE4 and SE4 and E2 of SW4 and Lot4 of Sec. 18; NE4 and N2 of SE4 and SW4 of SE4 and E2 of SW4 and Lots 3 and 4 and Lot 1 and NE4 of NW4 of Sec. 19; NW4 of SW4 and SW4 of NW4 of Sec. 20, Twp. 4 N., R. 16 E.	912.50	\$25.00	\$22,812.50

Both the Hartshorne and McAlester seams occur in this tract. The Hartshorne is estimated to be about 1,300 ft. beneath the McAlester seam. The outcrop of the McAlester coal crosses in three lines extending in a northeast-southwest direction and forms a narrow basin, extending south of Section 19. In the N2 of Section 19 this coal dips northward at an angle of about 25 degrees, and is estimated to lie at a depth of 1,500 ft. at the northern boundary of the tract. The Hartshorne seam crops out near the southern end of the tract, dipping to the northward at an angle of 30 to 60 degrees. There are several abrupt folds in the rocks in this tract and several faults which somewhat detract from the value of the coal which has been taken into consideration in fixing the appraisalment.

It is believed that the Hartshorne seam rises to within several hundred feet of the surface about the center of the north half of Section 19, and then dips to the northwest.

In 1908 the Government sunk a diamond drill hole at about the center of this tract which showed the McAlester coal to be about 3 ft. thick, at about 800 ft. from the crop, with a dip of about 25 degrees.

The Ardmore branch of the Chicago, Rock Island & Pacific Railroad extends across this tract from the northeast to the southwest, and it is considered that all the tract contains workable coal. This conclusion is based on developments recently made on segregated land south of this tract.

2	SW4 of SE4 and S2 of SW4 of Sec. 16; NW4 of SE4 and S2 of SE4 and W2 of Sec. 17; NE4 and NE4 of SW4 and E2 of NW4 and NW4 of NW4 of Sec. 20; N2 of NW4 of Sec. 21, Township 4 N. R. 16 E.	960	\$30.00	\$28,800.00
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Both the Hartshorne and McAlester seams outcrop along the southeastern boundary of this tract and dip to the northeast at steep angles. The Hartshorne seam is believed to dip at the same angle as the McAlester, but is about 1,300 ft. beneath the latter seam.

This tract contains several sharp folds in the rocks, like tract 1; from the diamond drill hole mentioned in the description of tract 1 it is believed that the McAlester seam under this tract is about 3 ft. thick with a dip of about 25 degrees.

It is considered that the McAlester seam is workable under this tract and that the Hartshorne seam will be found workable to a point immediately below the outcrop of the McAlester seam; these conclusions are based on recent developments on segregated land southeast of this tract. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad extends across this tract from the northeast to the southwest.

McAlester District (North Map) Unleased—Continued.

Tract No. on Map.	Area	Per Acre Appraisalment	Total
3 E2 of NE4 and SE4 and SE4 of SW4 of Sec. 8; W2 of SW4 of Sec. 9; SW4 of NW4 of Sec. 15; S2 of NE4 and N2 of SE4 and N2 of SW4 and SE4 of NW4 and W2 of NW4 of Sec. 16; NE4 of SE4 and NE4 of Sec. 17, Twp. 4 N., R. 16 E.....	960	\$30.00	\$28,800.00
<p>Both the Hartshorne and McAlester coal seams outcrop across the southeastern end of this tract and dip to the northwest at angles varying from 70 to 80 degrees.</p> <p>The McAlester seam, after passing beneath a narrow basin extending northeast to southwest, near the center of Section 16, approaches to within a few hundred feet of the surface, in the extreme northwestern corner of this section, and from the northwestern corner of Section 16 the coal dips again towards the northwest and reaches a depth of about 1,500 ft. at the northwestern side of the tract. It is considered that the Hartshorne coal everywhere on this tract is about 1,300 ft. beneath the McAlester coal.</p> <p>It is estimated that the McAlester seam is the one workable under existing conditions, but there is about 160 acres of the Hartshorne seam workable along the crop.</p> <p>This tract adjoins leased land on which there are at this time operating coal mines producing coal from the McAlester seam. The McAlester seam is found on such leased land in an average thickness of 3 ft., of clean coal, with a dip of about 15 degrees, and it is believed therefore, that this tract is entirely underlaid with workable McAlester coal and that the Hartshorne coal is workable to a point immediately below the crop of the McAlester coal. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad extends across this tract from the northeast to the southwest.</p>			
4 SW4 of NE4 and Lot 2 and NE4 of SW4 and W2 of SW4 and Lot 3 and S2 of NW4 of Sec. 4, Twp. 4 N., R. 16 E., S2 of SW4 of Sec. 33, Twp. 5 N., R. 16 E.....	399.16	\$15.00	\$5,987.40
<p>The McAlester and Hartshorne seams underlie this tract, but only the McAlester seam is considered to be workable. On the adjoining leased lands the McAlester seam averages about 3 ft. in thickness with a dip of 22 to 24 degrees toward the west and is of good quality. This tract, it is considered, is entirely underlaid with coal. The Ardmore branch of the C., R. I. & P. Ry. is one-half mile east of this tract.</p>			
5 S2 of SE4 and SE4 of SW4 of Sec. 13, P. 2 Twp. 5 N., R. 15 E.....	120	\$30.00	\$3,600.00
<p>This tract contains only the Hartshorne seam and is surrounded by leased lands. This coal is about 4 ft. thick, and is estimated to lie at a depth varying from 800 to 900 ft., and to have a dip of about 10 degrees.</p> <p>It is considered this entire tract is underlaid with coal. The C., R. I. & P. Ry. is located one-half mile to the west.</p>			
5 P 3 W2 of NE4 and W2 of SE4 and NE4 of NW4 of Sec. 26 Twp. 5 N., R. 16 E.....	200	\$40.00	\$8,000.00
<p>This tract is entirely surrounded by leased lands. The Hartshorne seam is the only coal which this tract contains, which is about 4 ft. thick with a dip of 10 degrees. This seam is estimated to be from 800 to 900 ft. from the surface. It is considered to be entirely underlaid with coal. The C., R. I. & P. Ry. is one-fourth mile to the south, and the tract is also crossed by a spur of said road.</p>			
6 S2 of SE4 and SE4 of SW4 and W2 of SW4 of Sec. 12; All of Sec. 13; N2 of NE4 and NE4 of NW4 of Sec. 24, Twp. 5 N., R. 13 E.....	960	\$15.00	\$14,000.00
<p>This tract is one the extreme western end of the segregated coal lands in the McAlester District. The Hartshorne and McAlester seams underlie this tract, but the McAlester seam is the only one that is considered workable under present conditions. The McAlester seam is 5 ft. thick, with a dip of from 50 to 60 degrees, and is believed to outcrop near the north-eastern corner of the tract and to dip toward the south and west.</p> <p>It is reported that this tract was prospected some years ago and the result showed the coal to be faulty; however, on adjoining leased land on the northeast, the lessees are proposing to make early developments, and it is believed that this tract can be later developed. The Chicago, Rock Island & Pacific Railroad extends across the southern edge of this tract.</p> <p>It is considered this entire tract is underlaid with coal.</p>			

McAlester District (North Map) Unleased—Continued.

Tract No.	Appraisalment	on Map. Area	Per Acre	Total
7 Lot 3 and Lot 4 and SW4 of NW4 of Sec. 5; SE4 of NE4 and SE4 and SE4 of SW4 and Lot 7 of Sec. 6, Twp. 5 N., R. 14 E.; SE4 of SE4 of Sec. 1; NE4 and N2 of SE4 and NE4 of SW4 and SE4 of NW4 of Sec. 12, Twp. 5 N., R. 13 E., S2 of SE4 of Sec. 32; N2 of SW4 and SW4 or NE4 of Sec. 33, Twp. 6 N., R. 14 E.		956.05	\$15.00	\$14,340.75
<p>This tract contains the McAlester seam with the northern dip; the McAlester seam with the southern dip on the opposite side of this tract shows a thickness of 5 ft. of clean coal, with a dip from 50 to 60 degrees to the southeast. It is quite probable that the McAlester coal on the north dip of this tract will show a thickness equally as great.</p> <p>It is considered this entire tract is underlaid with coal. The Chicago, Rock Island & Pacific Railroad is about one mile to the southeast.</p>				
8 S2 of NE4 and NW4 of SE4 and SW4 and S2 of NW4 of Sec. 17; SE4 and E2 of SW4 and Lots 3 & 4 of Sec. 18; N2 of NE4 and SW4 of NE4 and E2 of NW4 and Lots 1 & 2 of Sec. 19, Twp. 5 N., R. 14 E.....		956.07	\$10.00	\$9,560.70
<p>This tract is underlaid with the McAlester seam, but it lies at such great depth that it is considered unworkable under present conditions. There is also in the tract the outcrop of a thin seam which only occurs locally and is known as the Secor seam, which is on an average of 2 ft. 6 in. thick, and has a dip of about 10 to 15 degrees.</p> <p>It is considered this tract contains 750 acres of Secor coal. The Chicago, Rock Island & Pacific Railroad crosses the northwest boundary of this tract which gives access to this thin coal seam and adds to the value of the tract.</p>				
9 SW4 of SW4 of Sec. 2; N2 of N2 of Sec. 10; NW4 or NW4 of Sec. 11; NE4 of SW4 and W2 of SW4 of Sec. 1; S2 of SE4 and SE4 of SW4 of Sec. 2, Twp. 5 N., R. 14 E.....		480	\$10.00	\$4,800.00
<p>This tract is surrounded on the west and north by leased land which separate it from the outcrop of the McAlester seam, which is the only workable seam underlying this tract.</p> <p>The outcrop of the Secor seam crosses the southeastern corner of this tract, but only a few acres of this coal are found within the boundaries of this tract.</p> <p>It is considered this entire tract is underlaid with coal. The Chicago, Rock Island & Pacific Railroad extends along the northern boundary of this tract which gives it an added value.</p>				
10 S2 of NE4 and SE4 and SW4 and S2 of NW4 of Sec. 10; W2 of NE4 and SE4 of SE4 and W2 of SE4 and SW4 and E2 of NW4 and SW4 of NW4 of Sec. 11, Twp. 5 N., R. 14 E.....		960	\$10.00	\$9,600.00
<p>The McAlester and Hartshorne seams underlie this tract, but at such great depths as to cause them to be considered unworkable under present conditions. And also the outcrop of the Secor seam extends along the northern boundary of this tract, and is estimated to have an average thickness of 2 ft. 6 in, with a dip of about 18 degrees on this tract. It is considered about 920 acres of the Secor seam on this tract is workable. The Chicago, Rock Island & Pacific Railroad extends within one quarter of a mile of the northwest corner of this tract.</p>				

McAlester District (North Map) Unleased—Continued.

Tract No. on Map	Area	Appraisalment	
		Per Acre	Total
32 Lots 1, 2, 3 & 4 and S2 of N2 and S2 of Sec. 1, Twp. 5 N., R. 16 E.; Lots 5, 6 & 7 of Sec. 6, Twp. 5 N., R. 17 E.; SE4 of SE4 of Sec. 35; S2 of S2 of Sec. 36, Twp. 6 N., R. 16 E.....	954.50	\$30.00	\$28,635.00

This tract is underlaid by the McAlester and Hartshorne seams, the former about 2 ft. 7 in. and the latter about 4 ft. thick, with a dp of from 30 to 50 degrees, but where opened the McAlester seam is very defective and mined with great difficulty; however, tract 29 south of this tract contains some of the best Hartshorne coal in this district, and eventually the Hartshorne may be mined on both tracts 31 and 32. A diamond drill hole, sunk by the Government in 1908 in the SW4 of the SE4 of Section 1, penetrated 3 ft. 1 in. of coal at 306 ft.

The Wilburton branch of the Missouri, Kansas & Texas Railway crosses the southern boundary of this tract.

33 NW4 of SW4 of Sec. 5; Lots 1 & 2 and S2 of NE4 and Lots 3 & 4 and SE4 of NW4 and N2 of SE4 of Sec. 6, Twp. 5 N., R. 17 E.; Lot 4 and SE4 of SW4 and S2 of SE4 of Sec. 31, Twp. 6 N., R. 17 E.....	635.89	\$30.0	\$19,076.70
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This tract is underlaid with both the McAlester and Hartshorne seams, of about the same thickness, dip, and conditions as described in tract 32, therefore, the Hartshorne seam is the only seam considered workable and appraised on this tract. There are numerous openings on allotted land adjoining on the south, all of which are on the Hartshorne seam.

The Wilburton branch of the Missouri, Kansas & Texas Railway crosses the southern boundary of this tract.

34 Lots 1, 2, 3 & 4 and S2 of N2 and E2 of SW4 and SE4 of Sec. 5, Twp. 5 N., R. 17 E.; S2 of S2 of Sec. 32, Twp. 6 N., R. 17 E.....	765.72	\$30.00	\$22,971.60
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Only the Hartshorne seam underlies this tract and is considered workable under present conditions. The McAlester seam also underlies this tract, but it is thin and defective and it is otherwise considered the same as in tracts 32 and 33.

The Wilburton branch of the Missouri, Kansas & Texas Railway crosses the southern boundary of this tract.

35 Lots 1, 2, 3 & 4 and S2 of N2 and NW4 of SW4 of Sec. 4, Twp. 5 N., R. 17 E.; S2 of S2 of Sec. 33, Twp. 6 N., R. 17 E.....	525.80	\$25.00	\$13,145.00
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The Hartshorne seam underlies this entire tract, outcropping near the southern boundary and extending north under the tract, being about 4 ft. thick, with a dip of about 38 degrees. A diamond drill hole sunk by the Government in 1908 in the NE4 of SE4 of Sec. 4 penetrated 2 ft. 5 in. of coal at 242 ft.

The Wilburton branch of the Missouri, Kansas & Texas Railway crosses the southern boundary of this tract.

36 Lots 1, 2, 3 & 4 and S2 of N2 and N2 of S2 and SW4 of SW4 of Sec. 3; W2 of SW4 of Sec. 2, Twp. 5 N., R. 17 E.....	763.80	\$25.00	\$19,095.00
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Both the Hartshorne and McAlester seams underly this tract. The Hartshorne seam has been opened on allotted land a short distance south and the coal shows a thickness of about 3 ft. 6 in. clean, dipping toward north about 40 degrees at the crop. The McAlester seam is not considered workable on account of its thinness and defective character.

The Wilburton branch of the Missouri, Kansas & Texas Railway crosses the southern boundary.

McAlester District (North Map) Choctaw Nation, Oklahoma.

Tract No. on Map	Area	Appraisalment	
		Per Acre	Total
39 N2 of SE4 and SW4 of SE4 and S2 of SW4 of Sec. 25; S2 of SE4 and SE4 of SW4 of Sec. 26; SE4 of NE4 of Sec. 33; N2 of NE4 and SW4 of NE4 and N2 of SE4 and S2 of NW4 and NE4 of NW4 of Sec. 34; NW4 of NE4 and NW4 of SW4 and N2 of NW4 of Sec. 35, Twp. 6 N., R. 14 E.; NE4 of SW4 and Lot 3 of Sec. 30, Twp. 6 N., R. 15 E.....	920.92	\$15.00	\$13,913.80

This tract contains the McAlester seam only. The coal is from 2 ft. 6 in. to 3 ft. thick, with a dip of about 45 degrees, at the crop, where it appears somewhat faulty and broken. The Chicago, Rock Island & Pacific Railroad is about one-half mile south.

40 N2 of SE4 and SE4 of SE4 and NE4 of SW4 of Sec. 29, Twp. 6 N., R. 15 E.....	160	\$15.00	\$2,400.00
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This tract contains only the McAlester seam which outcrops near the southern boundary, dipping steeply northeast. The seam is apparently cut out by a fault on the eastern end of this tract and there has been very little mining in the immediate vicinity. The conditions are about the same as described in tract 39.

The Wilburton branch of the Missouri, Kansas & Texas Railway is about one-half mile south.

41 S2 of S2 of Sec. 25; S2 of SE4 of Sec. 26; N2 of N2 of Sec. 34; N2 of Sec. 35; NW4 of NE4 and NW4 of Sec. 36, Twp. 6 N., R. 15 E.....	920	\$30.00	\$27,600.00
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The McAlester seam outcrops near the southern boundary, dipping steeply toward the north. The seam at the western end of the tract is cut out by fault. Other conditions are about the same as described in tracts 38 and 39.

A spur of the Wilburton branch of the Missouri, Kansas & Texas Railway is about one-half mile east.

43 Lots 3 and 4 of Sec. 4, Twp. 5 N., R. 16 E., SE4 of SW4 of Sec. 29; NW4 of NE4 and S2 of NE4 and NW4 and N2 of S2 of Sec. 32; NW4 of SW4 and S2 of SW4 and SW4 of SE4 of Sec. 33, Twp. 6 N., R. 16 E.....	719.32	\$30.00	\$21,579.60
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The McAlester seam underlies this tract, the outcrop of which being on adjoining leased land on the south. A drill hole sunk by some coal operator several years ago is reported to have shown the McAlester seam to be 3 ft. 2 in. thick, with 2 in. of bone coal on top, at a depth of 554 ft.

The Wilburton branch of the Missouri, Kansas & Texas Railway is three-quarters of a mile south.

McAlester District (South Map) Choctaw Nation, Oklahoma.

Tract No. on Map	DESCRIPTION	Area	Appraisalment	
			Per Acre	Total
44	S2 of SE4 of Sec. 19; SW4 of SW4 of Sec. 20; NW4 of NW4 of Sec. 29; NE4 and NW4 of SE4 and E2 of SW4 and Lots 3 and 4 and E2 of NW4 and Lot 2 of Sec. 30; Lot 1 of Sec. 31, Twp. 2 N., R. 13 E.....	658.76	\$30.00	\$19,762.80

This tract is believed to contain both the Hartshorne and McAlester seams, both of which outcrop in a northeast and southwest direction and dip to the northwest at a high angle.

The outcrops of the seams are separated a distance of about 1,300 ft. and the seams are estimated to have an average thickness 3 ft. 6 in. along the crop. The dip of the two seams averages between 60 and 80 degrees. Formerly coal seams of such great dip were not frequently mined, but during the past two or three years several mines have been opened on seams as steep as these. The main line of the Missouri, Kansas & Texas Railway crosses this tract.

McAlester District (South Map) Choctaw Nation, Oklahoma.

Tract No. on Map	Area	Appraisalment	
		Per Acre	Total
45 SW4 of NE4 and SW4 and S2 of NW4 of Sec. 16; SE4 of NE4 and E2 of SE4 and SW4 of SE4 of Sec. 17; NE4 of SE4 of Sec. 19; NE4 and NW4 of SE4 and E2 of SW4 and NW4 of SW4 and E2 of NW4 and SW4 of NW4 of Sec. 20; NW4 of NW4 of Sec. 21, Twp. 2 N., R. 13 E.	960	\$30.00	\$28,800.00
This tract is estimated to contain both the Hartshorne and McAlester seams which are believed to occur under the same conditions as in tract 14. The main line of the Missouri, Kansas & Texas Railway crosses this tract.			
46 S2 of SW4 of Sec. 3; E2 of SE4 and SW4 of SE4 of Sec. 4; E2 and E2 of SW4 and SW4 of SW4 and SE4 of NW4 of Sec. 9; NW4 of SW4 and W2 of NW4 of Sec. 10; N2 of N2 of Sec. 16, Twp. 2 N., R. 13 E.	960	\$30.00	\$28,800.00
This tract should contain both the McAlester and Hartshorne seams as they have been located to the north and south of it. These seams should occur under the same conditions as in tracts 44 and 45. The main line of the Missouri, Kansas & Texas Railway crosses this tract.			
47 Lot 2 and SW4 of NE4 and N2 of SW4 and S2 of NW4 and Lots 3 & 4 of Sec. 3; SE4 of NE4 of Sec. 4, Twp. 2 N., R. 13 E.; SE4 of SE4 of Sec. 27; E2 and SW4 and SE4 of NW4 of Sec. 34; SW4 of SW4 of Sec. 35, Twp. 3 N., R. 13 E.	959.78	\$35.00	\$33,592.30
This tract is believed to contain both the Hartshorne and McAlester seams which should occur under the same conditions as in tracts 44, 45 and 46. The Hartshorne seam has been mined on adjoining allotted land a short distance to the northeast. Both the main line of the Missouri, Kansas & Texas Railway and the Ardmore branch of the Chicago, Rock Island & Pacific Railroad cross this tract.			
48 E2 and SW4 and SE4 of NW4 of Sec. 26; NE4 and NW4 of SE4 and N2 of SW4 and NW4 of Sec. 35, Twp. 3 N., R. 13 E.	960	\$40.00	\$38,400.00
This tract is believed to contain both the Hartshorne and McAlester seams, each estimated to be about 4 ft. thick, with a dip from 60 to 80 degrees, the former having been proven by development on allotted land near the southern boundary of the tract and the latter is now being mined on the McAlester-Edwards lease nearby. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad crosses this tract.			
49 SE4 of SE4 of Sec. 23; W2 of SW4 and SE4 of NW4 of Sec. 24; W2 of NW4 and SW4 and N2 of SE4 and SW4 of SE4 of Sec. 25; NW4 of NW4 of Sec. 36, Twp. 3 N., R. 13 E.	560	\$40.00	\$22,400.00
This tract adjoins lease No. 1 of the McAlester-Edwards Coal Company, on which is an operating mine in the McAlester seam which is 4 ft. thick, of clean coal, having a dip of about 22 to 24 degrees toward the northwest. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad crosses the southern part of this tract.			
49C NE4 of NW4 of Sec. 30, Twp. 3 N., R. 14 E.	40	\$40.00	\$1,600.00
This small tract adjoins lease of the McAlester-Edwards Coal Company, and about 30 acres contains the Hartshorne seam estimated to be about 3 ft. thick, with a dip of about 40 degrees. The Ardmore branch of the C., R. I. & P. R. R. is one-fourth mile north.			

McAlester District (South Map) Unleased—Continued.

Tract No. on Map	Area	Appraisalment	
		Per Acre	Total
50 N2 of SE4 of Sec. 18, Twp. 3 N., R. 14 E.	80	\$40.00	\$3,200.00
This tract lies adjacent to two leases of the McAlester-Edwards Coal Company, and down the dip of the coal on these leases. The McAlester seam is the only coal workable at this point. Judging from developments on these leases the seam should have a thickness of about 4 ft. of clean coal and a dip of about 20 degrees. The Ardmore branch of the C., R. I. & P. R. R. is 1 1-4 miles south.			
50A SE4 of SE4 of Sec. 13, Twp. 3 N., R. 13 E; Lot 4 of Sec. 18, Twp. 3 N., R. 14 E	79.05	\$40.00	\$3,162.00
This tract adjoins the McAlester-Edwards Coal Company's lease No. 1 and is believed to contain the McAlester seam of good coal 4 ft. thick, with a dip of about 22 degrees, the outcrop of which being on adjacent leased land. The Ardmore branch of the C., R. I. & P. R. R. is 1 mile south.			
50B N2 of SW4; SW4 of SW4; NW4 of SE4; of Sec. 20, Twp. 3 N., R. 14 E.	160	\$50.00	\$8,000.00
The only coal estimated to be on this tract is the Hartshorne coal about 3 ft. 9 in. thick, with a dip of 49 degrees. The Ardmore branch of the C., R. I. & P. R. R. crosses the NW corner.			
50C S2 of NW4 of Sec. 21, Twp. 3 N., R. 14 E.	80	\$50.00	\$4,000.00
This tract is estimated to contain only the Hartshorne seam which is found under the same conditions as in tract 50B. A considerable part of this tract is behind the coal outcrop. The Ardmore branch of the C., R. I. & P. R. R. is one-fourth mile north.			
51 S2 of SE4 of Sec. 9; SW4 of SW4 of Sec. 10; NW4 of NW4 of Sec. 15; N2 of N2 and SW4 of NW4 of Sec. 16; NE4 of NE4 and S2 of NE4 and SE4 of NW4 of Sec. 17, Twp. 3 N., R. 14 E.	520	\$45.00	\$23,400.00
The only coal estimated to be on this tract is the McAlester seam, the outcrop of which crosses the southeastern corner of the tract. Judging from conditions on adjacent leased lands the seam should be 4 ft. thick, with a dip from 26 to 30 degrees. The Ardmore branch of the C., R. I. & P. R. R. is one-fourth mile south.			
52 E2 of SW4 and W2 of SE4 and SE4 of SE4 of Sec. 10 and S2 of SE4 of SW4 and SW4 of SE4 and S2 of NE4 of SE4 of Sec. 15 and S2 of SE4 of Sec. 16 and N2 of NE4 of Sec. 21 of Twp. 3 N., R. 15 E.	440	\$45.00	\$19,600.00
This tract contains both the Hartshorne and McAlester seams, each estimated to be 4 ft. thick, with a dip of from 40 to 80 degrees. The crop of the Hartshorne crossing near the southern boundary of the tract, but on account of the steep dip only about one-half of the tract is considered workable in the Hartshorne seam. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad crosses this tract.			
53 N2 of NE4 and SW4 of NE4 and N2 of SE4 of NE4 and S2 of NW4 and N2 of NW4 of SW4 of Sec. 11 and NE4 of SE4 of Sec. 10 and S2 of SW4 of NE4 and S2 of NW4 of SW4 of Sec. 14, Twp. 3 N., R. 14 E.	320	\$50.00	\$16,000.00
This tract contains both the McAlester and Hartshorne seams. The McAlester seam is not normal at this point as it should be 3 ft. 8 in. thick. The Hartshorne seam has the greater dip being about 40 degrees to the northwest while the McAlester is about 30 degrees to the northwest. The Government sunk a diamond drill hole near this tract in 1908 and the McAlester seam was found at 410 ft. to have a thickness of 3 ft. 11 in. and a dip of 45 degrees. The McAlester seam is being mined in a small section near this tract and shows the following section: 2 ft. 8 in. clean coal at top of seam; 1 in. of soft shale, then 2 1/2 in. of clean coal below the dirt. The seam dips 47 degrees at the face of the slope and 42 degrees at the face of the slope. The lower Hartshorne seam has recently been opened near this tract and shows coal 4 ft. thick at the surface and 4 ft. of clean coal 60 ft. from the crop. The dip is 55 degrees at the crop and 47 degrees at the face of the slope. The Ardmore branch of the C., R. I. & P. R. R. crosses this tract.			

McAlester District (South Map) Unleased—Continued.

McAlester District (South Map) Unleased—Continued.

Tract No. on Map	Area	Appraisalment Per Acre	Total
54 S2 of SW4 and NW4 of SE4 and N2 of NE4 of SE4 and SW4 of NE4 of SE4 and N2 of SE4 of NE4 of SE4 and NW4 of SW4 of SE4 and N2 of NE4 of SW4 of SE4 of Sec. 1 and N2 of NW4 of Sec. 12, wp. 3 N., R. 14 E. and Lot 5 and N. 18 acres and N. 4.50 acres of SW 9 acres of Lot 6, Sec. 6, Twp. 3 N., R. 15 E.....	308.18	\$60.00	\$18,490.80

Both the McAlester and Hartshorne seams occur on this tract. The upper Hartshorne has been opened on adjoining leased land and shows a thickness of 3 ft. 10 in. of clean coal. The McAlester seam has also been opened near this tract and shows a thickness of 51 in. of coal with a 5 in. dirt band in the middle. The McAlester seam is not now being operated on the adjacent leased land but a new mine has been opened on the upper Hartshorne seam. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad crosses this tract.

55 W2 of W2 of Sec. 5; NE4; E2 of NW4; N2 of NW4 of NE4 of SW4; E2 of W2 of W2 of SE4; E2 of W2 of SE4; E2 of SE4 of Sec. 6 and E2 of NE4; E2 of W2 of NE4; E2 of W2 of W2 of NE4 of Sec. 7 and NW4 of NW4 of Sec. 8, Twp. 3 N., R. 15 E.....	726.04	\$60.00	\$43,562.40
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This tract contains both the Hartshorne and McAlester seams, the dip being from 60 to 70 degrees to the northwest. The coal should be the same thickness as in tract 54.

The Ardmore branch of the C., R. I. & P. RR. crosses this tract.

56 SW4 of NW4; Lots 2, 3 & 4 of Sec. 4 and Lots 1, 2 & 3; S2 of NE4; N2 of SE4; E2 of SW4; SE4 of NW4 of Sec. 5, Twp. 3 N., R. 15 E.; SE4 of NE4; SE4, S2 of SW4 of Sec. 32 and W2 of SW4 of Sec. 33, Twp. 4 N., R. 15 E.....	925.44	\$60.00	\$55,526.40
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This tract is believed to contain both the Hartshorne and McAlester seams and estimated to occur under the same conditions as in tract 54. The McAlester seam is estimated to have an average thickness of 2 ft. 8 in. with the dirt parting 4 in. thick in the center and a dip to the northwest about 50 degrees. The Hartshorne is estimated to be 3 ft. 6 in. thick, of clean coal, judging from mining operations near tract 54, with a dip of about 50 degrees. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad crosses this tract.

57 SW4 of Sec. 27 and SE4 of SE4 of Sec. 28 and E2; E2 of W2; SW4 of NW4 of Sec. 33 and N2 of SW4; NW4 of Sec. 34, Twp. 4 N., R. 15 E.....	960	\$60.00	\$57,600.00
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This tract is believed to contain both the Hartshorne and McAlester seams estimated to occur under the same conditions as in tracts 54, 55 and 56. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad extends across this tract.

58 SE4 of SW4 of Sec. 23 and W2 of NE4; NW4 of SE4; W2 of Sec. 26 and NE4 of NE4; S2 of NE4; SE4 of Sec. 27 and NE4 of Sec. 34 and NW4 of NW4 of Sec. 35, Twp. 4 N., R. 15 E.....	960	\$60.00	\$57,600.00
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This tract is believed to contain both the Hartshorne and McAlester seams estimated to occur under the same conditions as in tracts 54, 55, 56 and 57.

The Ardmore branch of the C., R. I. & P. R. R. crosses this tract.

Tract No. on Map	Area	Appraisalment Per Acre	Total
59 SE4 of SE4 of Sec. 13 and SE4 of Sec. 23 and E2; SW4; E2 of NW4; SW4 of NW4 of Sec. 24 and N2 of NW4 of Sec. 25 and E2 of NE4 of Sec. 26, Twp. 4 N., R. 15 E.....	960	\$60.00	\$57,600.00

This tract is believed to contain both the Hartshorne and McAlester seams estimated to occur under the same conditions as in tracts 54 to 58 inclusive. The McAlester seam is estimated to have a thickness of 3 ft. with a dip of about 20 degrees to the northwest. The Hartshorne seam is estimated to have a thickness of 3 ft. 6 in. and a dip of 20 degrees to the northwest. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad crosses this tract.

60 E2 of SE4 of Sec. 8 and SW4; S2 of NW4 of Sec. 9 and W2 of SW4; NW4 of Sec. 16 and E2; NE4 of SW4; SE4 of NW4 of Sec. 17, Twp. 3 N., R. 13 E.....	960	\$ 5.00	\$ 4,800.00
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This tract lies across an upward fold in a rock and it is estimated to contain the McAlester seam which outcrops in the shape of a curve in the northeastern part of the tract. It is believed this tract also contains the Hartshorne seam but at such a depth that it is not taken into consideration. A diamond drill hole sunk by the Government in 1908 showed the McAlester coal to be only 1 ft. thick, at a depth of 289 ft. for which reason this coal is not considered workable under present conditions; however, considering leased land comparatively near, it is believed that coal in workable quantities to a small extent may be found on this tract.

The main line of the M., K. & T. Ry. is 3 miles east.

61 SW4 of SE4 of Sec. 4 and E2 and NE4 of NW4 of Sec. 9 and N2 of SW4; SW4 of SW4; S2 of NW4 of Sec. 10 and S2 of NW4; NW4 of NW4 of Sec. 15 and NW4 of SE4; NE4 of SW4; NE4 of Sec. 16, Twp. 3 N., R. 13 E.....	960	\$15.00	\$14,400.00
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It is believed that both the Hartshorne and McAlester seams underlie this tract. A Government diamond drill hole was sunk about the center of this tract in 1908 showing the coal to have a thickness of 3 ft. 4 in. and a dip of 13 degrees at 160 ft. As a rule coal seams describing such curves as the outcrop shows on this tract are broken up or troubled with faults which make mining difficult.

The main line of the M., K. & T. Ry. is 2 miles east.

62 Lot 2; NW4 of SW4; S2 of NW4; Lots 3 & 4 of Sec. 2 and Lot 1; S2 of NE4; N2 of SE4; SW4 of SE4; SW4 of Sec. 3 and SE4 of SE4 of Sec. 4 and N2 of NW4 of Sec. 10, Twp. 3 N., R. 13 E. and W2 of SE4; E2 of SW4; SW4 of SW4 of Sec. 35, Twp. 4 N., R. 13 E.....	957.04	\$15.00	\$14,335.60
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It is believed this tract contains both the Hartshorne and McAlester seams. The McAlester seam is estimated to be about 3 ft. 6 in. thick, with a dip varying between 40 and 80 degrees and the Hartshorne to be 3 ft. 4 in. thick, with a dip between 40 and 80 degrees. The conditions of the seams on this tract are believed to be about as described in tract 61.

The main line of the M., K. & T. Ry. is 1 mile east.

63 SW4 of SE4 of Sec. 2 and S2 of NE4; SE4; SE4 of SW4 of Sec. 10 and N2; NW4 of SE4; SW4 of SW4; N2 of SW4 of Sec. 11 and NW4 of NE4; NE4 of NW4 of Sec. 15, Twp. 3 N., R. 13 E.....	880	\$10.00	\$ 8,800.00
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It is believed this tract contains both the Hartshorne and McAlester seams in about the same conditions as described in tracts 61 and 62.

The main line of the M., K. & T. Ry. is one-fourth mile east.

McAlester District (South Map) Unleased—Continued.

McAlester District (South Map) Unleased—Continued.

Tract No. on Map	Area	Appraisalment Per Acre	Total
64 Lot 1 of Sec. 2, wp. 3 N., R. 13 E. and E2 of SE4; SW4 of SE4; SE4 of SW4 of Sec. 25 and SE4 of NE4; E2 of SE4 of Sec. 35 and N2; NE4 of SW4; W2 of SW4 of Sec. 36, Twp. 4 N., R. 13 E. and E2 of SW4; Lots 3 & 4 of Sec. 30 and Lot 1 of Sec. 31, Twp. 4 N., R. 14 E. <i>DC McAlester</i>	951.60	\$15.00	\$14,274.00
This tract is believed to contain both the Hartshorne and McAlester seams under the same conditions as in tracts 61, 62 and 63. The M. K. & T. Ry. crosses this tract.			
65 Lot 1; S2 of NE4; S2; SE4 of NW4 of Sec. 1 and E2 of SE4 of Sec. 2 and NW4 of NE4; NE4 of NW4; W2 of NWW4 of Sec. 12, Twp. 3 N., R. 13 E. and SE4 of NW4; NE4 of SW4; Lots 4, 5, 6 & 7 of Sec. 6, Twp. 3 N., R. 14 E.	952.05	\$10.00	\$ 9,520.50
This tract is believed to contain both the Hartshorne and McAlester seams, the Hartshorne dipping from 70 to 80 degrees, and the McAlester 30 degrees to the southeast; otherwise the conditions are considered the same as in tracts 61 and 64 inclusive. The M., K. & T. Ry. crosses this tract.			
66 SE4 of SE4; SE4 of SW4 of Sec. 17 and SE4 of NE4; E2 of SE4; SW4 of SE4 of Sec. 19 and N2 of NE4; SW4 of NE4; SW4 of SW4; N2 of SW4; NW4 Sec. 20 and NE4 of NE4; W2 of NE4; E2 of NW4; Not 2 of Sec. 30, Twp. 4 N., R. 14 E. <i>Earl Cobb</i>	877.74	\$20.00	\$17,554.80
This tract is believed to contain both the Hartshorne and McAlester seams which were developed by mining operations many years ago, but long since abandoned and which showed the McAlester seam to be 3 ft. 10 in. thick, with a dip of about 48 degrees and the Hartshorne to be 3 ft. 10 in. thick, with a dip of about 48 degrees. The main line of the M., K. & T. Ry. crosses this tract.			
67 Lot 3; SW4 of NE4 of Sec. 6, Twp. 3 N., R. 14 E. and NE4 of SW4; W2 of SW4 of SW4 of Sec. 29 and NE4 of NE4; S2 of NE4; NE4 of SW4; S2 of SW4; NW4 of SE4 of Sec. 30, Twp. 4 N., R. 14 E.	417.59	\$30.00	\$12,527.70
This tract is believed to contain both the Hartshorne and McAlester seams, the Hartshorne estimated to be about 3 ft. 10 in. thick, with a dip of about 50 degrees to the southeast, and the McAlester to be about 3 ft. 6 in. thick, with a dip of about 50 degrees. This tract adjoins on the northeast leased land on which mines are operating in the McAlester seam about 4 ft. thick, composed of clean coal and with a dip to the southeast varying from 30 to 50 degrees. The main line of the M., K. & T. Ry. is one-half mile west.			
69 N2 of SW; SW4 of SW4 of Sec. 14 and W2 of NW4; S2 of Sec. 15 and NE4; S2 of SE4 of NW4; S2 of NW4 of SW4; SW4 of SW4; NE4 of SW4; N2 of SE4; SE4 of SE4 of Sec. 16, Twp. 4 N., R. 14 E.	920	\$30.00	\$27,600.00
This tract lies across an upward fold in the rocks which pitches toward the northeast and it is believed to contain both the Hartshorne and McAlester seam. A Government diamond drill hole sunk in 1908 in the SW4 of the NW4 of Section 15 showed the lower Hartshorne seam at a depth of 597 ft. to be 3 ft. 10 in. thick, and with a dip of about 14 degrees. The McAlester seam is estimated to be 3 ft. 4 in. thick with a dip of about 45 degrees. Considerable stripping was done several years ago on this tract on the outcrop of the McAlester seam. The main line of the M., K. & T. Ry. is ½ mile west.			

Tract No. on Map	Area	Appraisalment Per Acre	Total
70 SW4 of SE4 of Sec. 4, Twp. 4 N., R. 14 E.	40	\$15.00	\$ 600.00
This is an isolated tract believed to be underlain with the McAlester seam lying at a depth estimated to be about 800 ft. The nearest working mine shows coal about 4 ft. thick, and clean, but by reason of the inaccessibility of this tract only a nominal value is placed thereon. The M., K. & T. Ry. crosses this tract.			
70A SE4 of NW4; SW4 of Sec. 9, Twp. 4 N., R. 14 E.	200	\$15.00	\$ 3,000.00
Only the McAlester seam occurs on this tract outcropping across the southeastern corner and dipping toward the northwest at a high angle. The coal is estimated to be 3 ft. 8 in. thick, with a dip of about 40 degrees. This tract lies between two tracts of leased land, on one of which coal was produced some years ago, on the other coal is now being produced. The main line of the M., K. & T. Ry. crosses this tract.			
71 SE4 of SE4 of Sec. 10 and SE4; S2 of SW4; NE4 of SW4 of Sec. 11 and SW4 of SW4; N2 of SW4 of Sec. 12 and N2 of NE4; SW4 of NE4; NW4 of Sec. 14 and NE4; E2 of NW4 of Sec. 15, Twp. 4 N., R. 14 E.	960	\$15.00	\$14,400.00
Only the McAlester seam is considered available on this tract, the outcrop crossing the extreme west boundary dipping toward the northeast and the east. In 1908 the Government sunk a diamond drill hole in the southwest corner of tract 72 in approximately the NW4 of the SW4 of Section 11 and found the McAlester seam at a depth of 1306 ft. at which point the coal was only 1 ft. 9 in. thick, but it is believed that at the point the coal was cut through there was merely a local defect; however, in view of the facts as shown by the drill hole it must be assumed that the same conditions exist in tract 71 and therefore, only a nominal value is placed on the coal rights therein. The M., K. & T. Ry. is one-fourth mile west.			
72 S2 of SW4 of Sec. 1 and S2 of S2 of Sec. 2 and SE4 of SE4 of Sec. 3 and E2 of NE4; NE4 of SE4 of Sec. 10 and N2; NW4 of SW4 of Sec. 11 and NW4 of NE4; NW4 of Sec. 12, Twp. 4 N., R. 14 E.	960	\$10.00	\$ 9,600.00
The seam, thickness and conditions of the coal on this tract are considered practically the same as in tract 71 to which attention is invited to a drill hole sunk on this tract. The M., K. & T. Ry. is 1 mile west.			
73 Lots 1, 2 & 3; SW4 of NE4; S2 of NW4; N2 of SW4 of Sec. 2 and Lots 1 & 2; S2 of NE4; NE4 of SW4; N2 of SE4 of Sec. 3, Twp. 4 N., R. 14 E.	652.97	\$10.00	\$ 6,529.70
Only the McAlester seam is accessible on this tract, at the eastern end of which the coal is estimated to lie at a depth of 800 to 1,000 ft. The conditions are practically the same as in tract 71. The M., K. & T. Ry. is one-fourth mile west.			
74 Lots 1, 2, 3 & 4; S2 of N2; SE4; N2 of SW4 of Sec. 1 and Lot 1; SE4 of NE4; NE4 of SE4 of Sec. 2, Twp. 4 N., R. 14 E. and Lots 2, 3, 4, 5 & 6; SE4 of NW4 of Sec. 6, Twp. 4 N., R. 15 E.	921.33	\$10.00	\$ 9,213.30
Only the McAlester seam underlies this tract, which is believed to be nearly horizontal in the western part. Tracts 71, 72, 73 and 74 all contain McAlester coal at a very great depth, all under practically the same conditions. The coal underlying these four tracts together with tracts 14, 15, 16, 17, 18, 19, 20, 21, and 24 constitutes a large field of deep McAlester coal estimated to be from 1000 to 1200 ft. below the surface, and is the only large remaining body of unworked McAlester coal anywhere near the city of McAlester. With improvements in mining and increase in selling price it is believed this coal before long will be in demand, but considering present conditions only a nominal value has been placed thereon. The M., K. & T. Ry. is 1½ miles west of this tract.			

SCHEDULE OF APPRAISEMENT OF SEGREGATED UNLEASED COAL DEPOSITS.

Wilburton District, Choctaw Nation, Oklahoma.

There are three seams of coal in the Wilburton District; namely, the lower Hartshorne, the upper Hartshorne and the McAlester. Only the Hartshorne seams are found to be workable; the McAlester, on account of its thinness, is considered unworkable under present conditions.

The deepest seam is the lower Hartshorne which lies from the outcrop to 1000 ft. beneath the surface. The upper Hartshorne lies from 60 to 90 ft. above the lower Hartshorne, and the McAlester lies about 1300 ft. above the upper Hartshorne.

The upper and lower Hartshorne seams reach their greatest development in this District, the upper averaging 3½ to 4 ft. thick, in some extreme cases reaching 5 ft. thick, and the lower averaging 4 ft. to 5 ft. thick, in one or two places reaching a thickness of 6 ft. As a rule these two seams are about 6 ft. apart, vertically, but in one or two places they approach close enough to be mined as one seam. These seams lie at dips varying from 10 to 60 degrees, though the average is from 15 to 20 degrees. On some leased land the upper seam is mined to the exclusion of the lower, while on others the reverse is the case. On a few leases both seams are mined simultaneously. The quality of the coal in these seams varies, in some instances the upper seam yields coal of better quality than the lower, in others the reverse is true.

The coal produced from these seams is used mostly for railroad steam purposes and recently has proven satisfactory as bunker coal.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
2	N2; N2 of S2 of Sec. 32 and W2 of NE4; NW4 of SE4; N2 of SW4; NW4 of Sec. 33, Twp. 6 N., R. 18 E.....	840	\$25.00	\$21,000.00

This tract is believed to contain both the lower Hartshorne and McAlester seams, the former estimated to be 2 ft. 5 in., the latter 4 ft. thick, dipping toward the north 70 to 80 degrees. The Wilburton branch of the Missouri, Kansas & Texas Railway extends across this tract in a southwest to northeast direction. The Electric Line runs a short distance south of this tract.

3	S2 of S2 of Sec. 27 and SE4 of SE4 of Sec. 28 and E2 of NE4 of Sec. 33 and N2 of Sec. 34 of Twp. 6 N., R. 18 E.....	600	\$25.00	\$15,000.00
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This tract it is believed contains both the lower Hartshorne and McAlester seams under practically the same conditions as described in tract 2. The Wilburton branch of the Missouri, Kansas & Texas Railway extends across and the Electric Line runs just south of this tract.

4	Lot 3; E2 of SW4; SE4 of Sec. 30 and NW4 of NE4; E2 of NW4 of Sec. 31, Twp. 6 N., R. 19 E.....	477.76	\$55.00	\$26,276.80
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This tract is believed to contain the upper and lower Hartshorne and McAlester seams. There is no development on the McAlester seam, but there is on the Hartshorne seam on adjoining leased land. The outcrop of the lower Hartshorne seam is located on leased land on the west and south. In 1908 the Government sunk a hole with a diamond drill in the SE4 of the SE4 of Section 25, and at a depth of 336 ft., the McAlester seam was found with a thickness of 1 ft. 6 in., such seam, therefore, is regarded as unworkable under present conditions in tracts 4, 5 and 6. The adjoining leased land contains some of the most valuable Hartshorne coal in the segregated district. The upper and lower Hartshorne seams are worked on leased land near this tract and from the best obtainable information, the upper Hartshorne is 4 ft. thick, and the lower 6 ft. The Wilburton branch of the Missouri, Kansas & Texas Railway runs 1 mile south.

Wilburton District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
5	SW4 of SW4 of Sec. 28 and SE4 and E2 of SW4 of Sec. 29 and E2 of E2; W2 of SE4; SW4 of NE4 of Sec. 31 and NE4 of NE4; W2 of NE4; NE4 of SW4; E2 of NW4; W2 of W2 of Sec. 32, Twp. 6 N., R. 19 E.....	960	\$60.00	\$57,600.00
The upper and lower Hartshorne seams are believed to underlie this tract at a depth of about 1000 ft., being about 60 ft. apart normally in the SW corner, with a dip to the northeast of 10 to 25 degrees. The outcrops of the Hartshorne seams are located on adjoining leased land and both seams are therefore considered to be of workable thickness under this tract. The Wilburton branch of the Missouri, Kansas & Texas Railway runs three-fourths mile south.				
6	Lots 3 and 4; SW4 of NW4 of Sec. 4, and Lots 1, 2 & 3; S2 of NE4; SE4 of NW4 of Sec. 5, Twp. 5 N., R. 19 E.; SE4 of NE4; SE4; SE4 of SW4 of Sec. 32, and W2 of Sec. 33, Twp. 6 N., R. 19 E.....	921.69	\$60.00	\$55,301.40
This tract is believed to contain the upper and lower Hartshorne and McAlester seams, but only the upper Hartshorne is considered workable under present conditions; the outcrop of which is located on adjoining leased land, on which the seam is found to be 4 ft. thick, of clean coal and it undoubtedly extends under this tract. The lower Hartshorne seam may also prove workable on this tract at some future time. The Wilburton branch of the Missouri, Kansas & Texas Railway and the Chicago, Rock Island & Pacific Railroad run 1 mile south.				
7	SW4 of NW4; Lot 4 of Sec. 1 and Lots 1, 2, 3 and 4 of Sec. 2, Twp. 5 N., R. 19 E., and S2 of NE4; SE4 of Sec. 33 and S2 of SE4; SW4 of Sec. 34 and S2 of S2 of Sec. 35 and SW4 of SW4 of Sec. 36, Twp. 6 N., R. 19 E.....	927.11	\$50.00	\$46,355.50
This tract is believed to contain the upper and lower Hartshorne and McAlester seams. It is estimated that both the upper and lower Hartshorne seams are workable in the greater part of this tract. About one-half mile south of the southeast boundary of this tract a drill hole sunk by the Great Western Coal & Coke Company in the NE4 of the NE4 of Section 11, shows the upper Hartshorne to be 3 ft. 5 in. and the lower to be 4 ft. 2 in. thick at a depth of 997 ft., which has been taken into consideration in fixing the appraisalment. On account of the thinness of the McAlester seam it is not included in the appraisalment. The Chicago, Rock Island & Pacific Railroad runs 1½ miles south.				
8	Lots 1, 2 & 3; S2 of NE4; N2 of S2; SE4 of NW4 of Sec. 1, Twp. 5 N., R. 19 E.; NW4 of SE4; NE4 of SW4; SE4 of NW4; Lots 3, 4, 5 & 6 of Sec. 6, Twp. 5 N., R. 20 E., and S2 of SE4; SE4 of SW4 of Sec. 36, Twp. 6 N., R. 19 E., and E2 of SW4; Lot 4 of Sec. 31, Twp. 6 N., R. 20 E.....	917.05	\$40.00	\$36,682.00
This tract is believed to contain the upper and lower Hartshorne and McAlester seams, but only the Hartshorne seams are considered workable under present conditions, the outcrops of which are located on adjoining leased land, where such coal is recognized as among the best in this field, the thickness and dip of which are the same as described in tract 7. The Chicago, Rock Island & Pacific Railroad runs one-half mile south.				
9	Lots 2, 3 & 4; SW4 of NE4; NW4 of SE4; N2 of SW4; S2 of NW4 of Sec. 5 and Lots 1 & 2; S2 of NE4; NE4 of SE4 of Sec. 6, Twp. 5 N., R. 20 E.; SE4 of Sec. 31 and SE4 of SE4; SW4 of Sec. 32, Twp. 6 N., R. 20 E.....	923.70	\$30.00	\$27,711.00
The outcrop of the McAlester seam extends across the southern boundary of this tract, but on account of its thinness it is not regarded workable under present conditions. It is				

Wilburton District, Unleased—Continued.

Wilburton District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
10	SW4 of SW4 of Sec. 4 and S2 of S2 of Sec. 5 and S2 of SE4 of Sec. 6 and N2 of NE4 of Sec. 7 and NE4 and N2 of NW4 of Sec. 8 and W2 of NW4 of Sec. 9, Twp. 5 N., R. 20 E.	680	\$50.00	\$34,000.00
11	Lots 2, 3 & 4; SW4 of NE4; NW4 of SW4; S2 of NW4 of Sec. 4 and Lot 1; SE4 of NE4; NE4 of SE4 of Sec. 5, Twp. 5 N., R. 20 E., and S2 of NE4; N2 of SE4; SE4 of SE4 of Sec. 32 and W2 of SE4; SW4; S2 of NW4 of Sec. 33, Twp. 6 N., R. 20 E.	921.74	\$30.00	\$27,652.20
13	Lots 2, 3 & 4; SW4 of NE4; S2 of NW4 of Sec. 3 and Lot 1; SE4 of NE4 of Sec. 4, Twp. 5 N., R. 20 E., and S2 of NE4; E2 of SE4 of Sec. 33 and W2 of E2; E2 of W2 of W2 of SW4; SW4 of NW4 of Sec. 34, Twp. 6 N., R. 20 E.	923.31	\$20.00	\$18,466.20
14	Lots 2, 3 & 4; SW4 of NW4 of Sec. 2 and Lot 1; SE4 of NE4 of Sec. 3, Twp. 5 N., R. 20 E and SW4 of SE4 of Sec. 26 and E2 of E2 of Sec. 34 and W2 of W2; W2 E2 of Sec. 35 Twp. 6 N., R. 20 E.	923.75	\$20.00	\$18,475.00

believed, however, that this tract also contains the upper and lower Hartshorne seams, whose combined thickness should average about 7 ft. 6 in., with a dip varying from 30 to 40 degrees, the outcrops being located on unleased land south of this tract. The Chicago, Rock Island & Pacific Railroad crosses the southeast corner.

This tract contains only the Hartshorne seams, the outcrops of which extend along the southeast boundary of the tract from east to west, with a dip to the north varying from 35 to 40 degrees. The lower Hartshorne in places reaches a thickness of 5 ft. of clean coal and in some instances even greater thickness is found. The upper Hartshorne may also prove workable in portions of this tract. The coal in this tract is of good quality, splendid thickness and is found under conditions which permit cheap mining. There is a small mine on allotted land adjoining this tract on the south which shows coal about 5 ft. thick. The Chicago, Rock Island & Pacific Railroad runs through the tract.

This tract is believed to contain the upper and lower Hartshorne and McAlester seams, but the McAlester seam is considered unworkable on account of being only 1 ft. 8 in. thick at a depth of 313 ft. as shown by a Government drill hole sunk in 1908 in approximately the SE4 of the NW4 of Section 4 to a depth of 321 ft. It is believed the lower Hartshorne seam will be found on this tract probably about 600 to 800 ft. below the surface, and will be the same quality and thickness as in tract 10, a very desirable coal. The upper Hartshorne seam is not believed to be of sufficient thickness in this tract to be workable, and therefore is not considered in the appraisalment. The Chicago, Rock Island & Pacific Railroad crosses the southern boundary of the tract.

This tract is believed to contain the upper and lower Hartshorne and the McAlester seams, but on account of its thinness the McAlester seam is not considered workable. The upper Hartshorne seam is estimated to be about 4 ft. and the lower about 4 ft. 6 in. thick, both outcropping on tract 12, with a dip of about 20 degrees to the north. The main line of the Chicago, Rock Island & Pacific Railroad crosses the southern boundary of this tract.

This tract is believed to contain both the McAlester and Hartshorne seams, the McAlester seam on account of its thickness not being regarded as workable. The upper Hartshorne seam is about 4 ft. and the lower about 4 ft. 6 in. thick, the outcrops being located on tract 15, with a dip of about 20 degrees. The main line of the Chicago, Rock Island & Pacific Railroad crosses the southern boundary of this tract.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
15	S2 of NE4; S2; SE4 of NW4 of Sec. 2, and E2 of SE4 of Sec. 3, and E2 of NE4 and N2 of Sec. 11, Twp. 5 N., R. 20 E.	920	\$50.00	\$46,000.00
16	Lot 4 of Sec. 1 and Lot 1 of Sec. 2, Twp. 5 N., R. 20 E., and W2 of SE4; E2 of SW4; SW4 of Sec. 25 and SE4 of SE4 of Sec. 26, and E2 of E2 of Sec. 35 and W2 of NE4; NW4 of SE4; W2 of Sec. 36, Twp. 6 N., R. 20 E.	920.71	\$25.00	\$23,017.75
17	Lots 1, 2 and 3; S2 of N2; S2 of Sec. 1 and N2 of Sec. 12, Twp. 5 N., R. 20 E.	920.36	\$40.00	\$36,814.40
18	E2 of SE4 of Sec. 25 and E2 of E2; SW4 of SE4 of Sec. 36, Twp. 6 N., R. 20 E., and E2 of SW4; W2 of SE4; Lots 3 and 4 of Sec. 30 and E2 of W2; W2 NE4; NW4 of SE4; Lots 1, 2, 3 and 4 of Sec. 31, Twp. 6 N., R. 21 E.	946	\$25.00	\$23,650.00
19	Lots 2, 3 and 4; S2 of NE4; SE4; E2 of SW4; Lots 5, 6 and 7; SE4 of NW4 of Sec. 6 and NE4; E2 of NW4; Lots 1 and 2 of Sec. 7, Twp. 5 N., R. 21 E.	910.23	\$40.00	\$36,409.20

This tract contains both the upper and lower Hartshorne seams, the outcrops of which extend along the southern boundary of the tract, the thickness of the upper Hartshorne being about 3 ft. 6 in. and of the lower about 4 ft. both having a dip of about 20 degrees to the north. The Chicago, Rock Island Railroad runs one-half mile north of the tract.

This tract is believed to contain both the Hartshorne and McAlester seams. The McAlester is the only seam considered workable in this tract under present conditions, it having a thickness of about 2 ft. 9 in. with a dip of 5 degrees. The two Hartshorne seams appear to lie under the tract but at such a depth as to make them unworkable under present conditions. However, since the dip of the Hartshorne seams under this tract may be flatter than in the other tracts to the west, it is possible that shafts can be sunk to reach them, however, they are not considered in this appraisalment. The main line of the Chicago, Rock Island & Pacific Railroad crosses this tract.

This tract contains the Hartshorne seams, but it is believed only the lower seam is workable having a thickness of 3 ft. 6 in. with a dip of about 20 degrees. A drill hole sunk by the Chicago, Rock Island & Pacific Railroad Coal Company some years ago in the center of the NW4 of the NE4 of Section 12 in this tract showed at 246 ft., 1 ft. 9 in. of coal; at 249 ft., 3 ft. 6 in. of coal; and at 282 ft., 1 ft. 2 in. of coal. The Chicago, Rock Island & Pacific Railroad runs one-half mile north of this tract.

This tract is believed to contain both the McAlester and Hartshorne seams, the Hartshorne lying at a depth of about 1,000 ft. in the southern part of the tract. The outcrop of the McAlester seam extends across the southern boundary of this tract in a west-east direction and is considered the only workable seam on this tract having a thickness of about 2 ft. 9 in., with a dip of about 5 degrees. The main line of the Chicago, Rock Island & Pacific Railroad crosses this tract.

This tract contains only the Hartshorne seams the dips of which vary from 15 to 20 degrees. The outcrop of the lower Hartshorne seam extends across the southern boundary of this tract and is considered to be the only seam workable, having an average thickness of about 3 ft. 6 in., with a dip of about 20 degrees. The Chicago, Rock Island & Pacific Railroad runs one-half mile north of this tract.

Wilburton District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
20	Lots 3 and 4 of Sec. 5 and Lot 1 of Sec. 6, Twp. 5 N., R. 21 E., and S2 of SW4 of Sec. 29 and E2 of SE4 of Sec. 30 and E2 of E2; SW4 of SE4 of Sec. 31 and W2; W2 of NE4; NW4 of SE4 of Sec. 32, Twp. 6 N., R. 21 E.	922.12	\$25.00	\$23,053.
<p>This tract is believed to contain both the Hartshorne and McAlester seams, the former lying about 850 ft. beneath the southern boundary of the tract. The outcrop of the McAlester seam crosses the southern portion in a west-east direction. The only workable seam is believed to be the McAlester. A Government diamond drill hole was sunk in 1908 on the SE4 of the NE4 of Section 31 and showed at 106 ft., 2 ft. 3 in. of coal, and at 167 ft., 2 ft. 9 in. of coal, both of the McAlester seam. The McAlester seam in this tract has apparently been separated in two parts by some intervening strata, but on account of the low dip it is considered that the lower seam 2 ft. 9 in. thick, is workable. The Chicago, Rock Island & Pacific Railroad runs through the center of this tract.</p>				
21	Lots 1 & 2; S2 of N2; S2 of Sec. 5 and N2 of N2; S2 of NW4 of Sec. 8, Twp. 5 N., R. 21 E. and S2 of SE4 of Sec. 32 and SW4 of SW4 of Sec. 33, Twp. 6 N., R. 21 E.	922.12	\$40.00	\$36,884.00
<p>This tract contains only the Hartshorne seam, the outcrop crossing the southern boundary and it is believed to have an average thickness of 3 ft. 6 in. of clean coal, with a dip of about 20 degrees. The Chicago, Rock Island & Pacific Railroad runs one-half mile north of this tract.</p>				
22	W2 of W2 of Sec. 28 and N2; N2 of S2; S2 of SE4 of Sec. 29 and E2 of NE4; NE4 of SE4 of Sec. 32 and W2 of NW4; NW4 of SW4 of Sec. 33, Twp. 6 N., R. 21 E.	960	\$30.00	\$28,800.00
<p>Only the McAlester seam is believed accessible in this tract, the outcrop crossing the southern boundary in a west-east direction dipping at the outcrop 10 degrees to the north. A drill hole sunk by the Rock Island Coal Company some years ago in the NW4 of the NE4 of Section 21, showed the McAlester coal at a depth of 75 ft. to be 2 ft. 1 in. and at 149 ft. to be 3 ft. thick, and it is believed this thickness is maintained throughout this tract and tract 23. The main line of the Chicago, Rock Island & Pacific Railroad crosses the southern portion of this tract.</p>				
23	S2 of Sec. 17 and All of Sec. 20, Twp. 6 N., R. 21 E.	960	\$25.00	\$24,000.00
<p>This tract is believed to contain only the McAlester seam. The condition of the seam in this tract is believed to be the same as described in tract 22. The Chicago, Rock Island & Pacific Railroad runs 1½ miles south of this tract.</p>				
24	Lot 4; W2 of SW4 of NW4; W2 of W2 of SW4 of Sec. 3 and Lots 1, 2, 3 & 4; S2 of N2; S2 of Sec. 4 and N2 of N2 of Sec. 9 and W2 of NW4 of NW4 of Sec. 10, Twp. 5 N., R. 21 E.	924.15	\$20.00	\$18,483.00
<p>This tract contains only the lower Hartshorne seam which is believed to occur under practically the same conditions as in tract 21. A drill hole was sunk by the Rock Island Coal Company some years ago in the SW4 of the NW4 of Section 3, to a depth of 1439 ft. and only the Hartshorne seam was found at a depth of 1156 ft. the coal being 2 ft. 5 in. thick. This seam at the outcrop dips about 26 degrees. The result of this prospect hole does not demonstrate this tract as containing workable coal, but recent investigation and examinations of lands to the west and east indicate that this tract doubtless contains considerable workable coal. The Chicago, Rock Island & Pacific Railroad runs one-half mile north of this tract.</p>				

Wilburton District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
25	E2; E2 of W2 of Sec. 28 and E2; E2 of W2 of Sec. 33, Twp. 6 N., R. 21 E.	960	\$35.00	\$33,600.00
<p>The outcrop of the McAlester seam crosses the southern boundary of this tract in an eastward direction. The lower Hartshorne seam is believed to underlie this tract at a depth of from 1000 ft. to 1200 ft. at the southern boundary. It is therefore believed that the only seam workable in this tract is the McAlester. A drill hole sunk by the Rock Island Coal Company several years ago in the SE4 of the NE5 of Section 33 showed at 190 ft., 3 ft. of McAlester coal with 1 in. of slate in the center and at 250 ft., 2 ft. 6 in. of McAlester coal. The Chicago, Rock Island & Pacific Railroad runs through the center of this tract.</p>				
26	S2 of Sec. 16 and All of Sec. 21, Twp. 6 N., R. 21 E.	960	\$35.00	\$33,600.00
<p>This tract is believed to contain the McAlester seam. A drill hole sunk by the Rock Island Coal Company several years ago in the NW4 of the NE4 of Section 21 showed at 75 ft., 2 ft. 1 in. of McAlester coal, and at 149 ft., 3 ft. of McAlester coal. The Chicago, Rock Island & Pacific Railroad runs 1½ miles south of this tract.</p>				
27	Lots 2 & 3; SW4 of NE4; SE4; E2 of SW4; E2 of W2 of SW4; E2 of SW4 of NW4; SE4 of NW4 of Sec. 3 and N2 of NE4; NE4 of NW4; E2 of NW4 of NW4 Sec. 10, Twp. 5 N., R. 21 E. and S2 of Sec. 34, Twp. 6 N., R. 21 E.	920.80	\$20.00	\$18,416.00
<p>This tract contains both the McAlester and the lower Hartshorne seams. The McAlester seam outcrops near the northern boundary and the Hartshorne near the southern boundary. The character of the coal seams in this tract are similar to that described in tract 24. This tract is immediately adjacent to the town of Red Oak and there should be a local demand which would give an added value to the coal on this tract. The Chicago, Rock Island & Pacific Railroad runs one-half mile north of this tract.</p>				
28	All of Sec. 27, and N2 of Sec. 34, Twp. 6 N., R. 21 E.	960	\$35.00	\$33,600.00
<p>Only the McAlester seam is believed to be workable in this tract and it is reported to lie at a depth of about 200 ft. below the surface, outcropping at the southern boundary, dipping towards the north and estimated to have a thickness of 3 ft. throughout the tract. This tract is adjacent to the town of Red Oak which should add to the value of the coal. The Chicago, Rock Island & Pacific Railroad runs through the tract.</p>				
29	S2 of Sec. 15 and All of Sec. 22, Twp. 6 N., R. 21 E.	960	\$20.00	\$19,200.00
<p>Only the McAlester seam is believed to be workable on this tract and it appears from geological formation to come very close to the surface near the north side of Section 22. A drill hole sunk by the Rock Island Coal Company near the center of Section 22 showed at 107 ft., 2 ft. 4 in.; at 168 ft., 2 ft. 2 in.; and at 170 ft., 1 ft. of coal; however, since this coal lies at a relatively shallow depth and can be purchased with other tracts adjacent, giving large acreage, it is considered workable. The Chicago, Rock Island & Pacific Railroad runs 1½ miles south of this tract.</p>				
30	W2 of SW4; SW4 of NW4; Lot 4 of Sec. 1 and Lots 1, 2, 3 & 4; S2 of N2; S2 of Sec. 2 and Lot 1; SE4 of NE4 of Sec. 3, Twp. 5 N., R. 21 E., and SE4 of SE4 of Sec. 35, Twp. 6 N., R. 21 E.	922.61	\$45.00	\$41,517.45
<p>This tract contains only the Hartshorne seam the outcrop crossing the southern boundary and it is believed to have an average thickness of 4 ft. with a dip of about 28 degrees. To the east of this tract and adjoining it, are leased lands on which are operating mines producing a good quality of coal. The Chicago, Rock Island & Pacific Railroad runs one-half mile north of this tract.</p>				

Wilburton District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
31	W2 of E2; W2 of Sec. 26 and W2 of E2; W2 of Sec. 35, Twp. 6 N., R. 21 E.....	960	\$15.00	\$14,400.00
<p>The Hartshorne seam is believed to underlie this tract at a depth of about 1200 ft. The outcrop of the McAlester seam crosses the southern boundary in a west-east direction. A drill hole sunk some years ago in the SW4 of the SW4 of Section 36 showed at 160 ft., 4 in. and at 199 ft., 6 in. of coal; another drill hole sunk near the center of Section 35 showed at 10 ft., 1 ft. 10 in. and at 169 ft., 2 ft. 3 in. of coal. As the lower Hartshorne seam is found to be workable on leased land a short distance southeast, it is believed that such seam extends under this tract. The Chicago, Rock Island & Pacific Railroad runs through the tract.</p>				
32	S2 of Sec. 14 and All of Sec. 23, Twp. 6 N., R. 21 E.....	960	\$20.00	\$19,200.00
<p>Both the McAlester and lower Hartshorne seams are believed to underlie this tract, but the Hartshorne is estimated to be at a depth of nearly 1300 ft. in the north half, while the McAlester seam approaches the surface in the northern end of the tract. A prospect hole was sunk by the Rock Island Coal Company several years ago near the center of Section 22 which showed at 107 ft., 2 ft. 4 in.; at 168 ft., 2 ft. 2 in.; and at 170 ft., 1 ft. of coal. However, considering the development on leased land southeast of this tract and near tracts 30 and 39 it is believed this tract contains workable McAlester coal. The Chicago, Rock Island & Pacific Railroad runs 1 1/2 miles south of this tract.</p>				
33	S2 of S2 of Sec. 25 and SE4 of SE4 of Sec. 26 and E2 of NE4; NE4 of SE4 of Sec. 35 and All of Sec. 36, Twp. 6 N., R. 21 E.....	960	\$25.00	\$24,000.00
<p>This tract is believed to contain both the lower Hartshorne and McAlester seams, the former lying at a depth of from 1000 to 1200 ft. beneath the southern boundary. The McAlester seam outcrops about a mile from the southern boundary of the tract having an estimated dip to the north from 15 degrees in the southern part and 5 degrees in the northern part. It is believed this tract contains workable McAlester coal as it is bounded on the south by leased land on which there are operating mines. The main line of the Chicago, Rock Island & Pacific Railroad crosses the southern portion of this tract from west to east.</p>				
34	S2 of Sec. 24 and N2; N2 of S2 of Sec. 25 and NE4 of SE4; E2 of NE4 of Sec. 26, Twp. 6 N., R. 21 E.....	920	\$15.00	\$13,800.00
<p>Both the lower Hartshorne and McAlester seams are believed to underlie this tract. The McAlester is estimated to lie at a depth of a few hundred feet on the northwestern corner and on the west side, and it is believed to lie practically horizontal. Considering conditions on tract 33, which adjoins this tract on the south, it is believed that workable coal underlies this tract but under such mining conditions that warrant a small valuation. The Chicago, Rock Island & Pacific Railroad runs three-fourths mile south of this tract.</p>				
35	S2 of Sec. 13 and N2 of Sec. 24, Twp. 6 N., R. 21 E, and E2 of SW4; Lots 3 & 4 of Sec. 18 and E2 of NW4; Lots 1 & 2 of Sec. 19, Twp. 6 N., R. 22 E.....	948.90	\$15.00	\$14,233.50
<p>It is believed the McAlester seam approaches the surface near the northwest corner and dips to the south at a low angle. The lower Hartshorne seam is estimated to lie at a depth of 1200 ft. in the north half of this tract. A study of geological conditions has led to the conclusion that workable coal underlies this tract. The Chicago, Rock Island & Pacific Railroad runs 2 miles north of this tract.</p>				
36	SE4; E2 of SW4; Lots 3 & 4 of Sec. 30 and NE4; W2 of SE4; E2 of W2; Lots 1, 2, 3 & 4 of Sec. 31, Twp. 6 N., R. 22 E.....	868.06	\$35.00	\$30,382.10
<p>This tract contains both the McAlester and the lower Hartshorne seams. The outcrop of the McAlester extends in an eastward direction across the southern border and dips toward the north at an angle of from 15 to 20 degrees. The lower Hartshorne seam is believed to be at a depth of 1200 to 1300 ft. in the southern part of the tract. The Government sunk a diamond drill hole in the SE4 of the NW4 of Section 33, which at 322 ft. showed 2 ft. 6 in. and at 381 ft. showed 3 ft. 2 in. of coal, believed to be the McAlester seam and considered work-</p>				

Wilburton District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
37	SE4 of Sec. 18 and E2; E2 of SW4; Lots 3 & 4 of Sec. 19 and NE4; E2 of NW4; Lots 1 & 2 of Sec. 30, Twp. 6 N., R. 22 E.....	951.70	\$25.00	\$23,792.50
<p>The McAlester and lower Hartshorne seams are believed to underlie this tract. The McAlester seam appears to approach the surface in the northern part and to dip to the south at a low angle. The Hartshorne seam is believed to be about 1200 ft. below the surface in the northern end of this tract. The Chicago, Rock Island & Pacific Railroad runs 1 mile south of this tract.</p>				
38	S2 of Sec. 29 and NE4 of SE4 of Sec. 31 and N2; SE4; N2 of SW4 of Sec. 32, Twp. 6 N., R. 22 E.....	920	\$40.00	\$36,800.00
<p>This tract is believed to contain both the lower Hartshorne and McAlester seams. The Hartshorne is estimated to be at a depth of 1200 ft. beneath the surface, at the southern boundary of the tract. Leased land adjacent to this tract on the east contains both the Hartshorne and McAlester seams, the former 4 ft. thick, and the latter about 3 ft. thick, both with a dip to the north of about 28 degrees. The Hartshorne seam will probably lie at a considerable depth under this tract, but it is believed the thickness and quality of the coal will be such as to justify the sinking of deep shafts to reach same. The Chicago, Rock Island & Pacific Railroad crosses the southern portion of this tract.</p>				
39	Lots 3 & 4; S2 of NW4 of Sec. 4 and Lots 1, 2, 3 & 4; S2 of N2; N2 of S2 of Sec. 5 and Lot 7; SE4 of NE4 and NE4 of SE4 of Sec. 6, Twp. 5 N., R. 22 E. and SE4 of SE4 of Sec. 31 and S2 of SW4 of Sec. 32, Twp. 6 N., R. 22 E.....	881.72	\$45.00	\$39,677.40
<p>This tract lies between two tracts of leased land and on each lease mines are being operated in the lower Hartshorne seam, which also outcrops near the southern boundary of this tract and is about 4 ft. thick, with a dip of about from 25 to 30 degrees to the north. The McAlester seam outcrop crosses the tract near the northern boundary, there being a very small area of McAlester coal under this tract. The Chicago, Rock Island & Pacific Railroad runs one-half mile north of this tract.</p>				
40	SW4 of Sec. 27 and S2 of Sec. 28 and N2 of NE4; W2 of Sec. 33 and N2 of NW4 of Sec. 34, Twp. 6 N., R. 20 E.....	960	\$40.00	\$38,400.00
<p>This tract is believed to contain both the lower Hartshorne and McAlester seams. The lower Hartshorne is estimated to be at a depth from 1000 to 1200 ft. beneath the southwestern corner of the tract, dipping to the north at an angle from 20 to 30 degrees. The McAlester seam outcrop crosses the southwestern boundary of this tract. The Government in 1908 sunk a diamond drill hole in Section 33 to a total depth of 389 ft., at 381 ft. 11 in., 2 ft. 11 in. of McAlester coal was found. On leased land adjoining this tract on the south the McAlester coal was found to be 3 ft. thick, of clean coal at the crop. The Chicago, Rock Island & Pacific Railroad crosses this tract.</p>				
41	W2 of SW4 of Sec. 25 and S2 of Sec. 26 and SE4 of Sec. 27 and W2 of NE4 of Sec. 34 and E2 of E2 of Sec. 35 and W2 of W2 of Sec. 36, Twp. 6 N., R. 22 E.....	960	\$30.00	\$28,800.00
<p>This tract contains both the lower Hartshorne and McAlester seams which occur under about the same conditions as described in tract 40 with the exception that the Hartshorne seam, lies at a depth of 800 to 1000 ft. beneath the southeastern corner. Leased land adjoins this tract on the south where there are operating mines in the Hartshorne seam. A Government diamond drill hole sunk in 1908 approximately in the SW4 of the NW4 of Section 36 showed at 517 ft., 2 ft. 2 in. and at 576 ft., 2 ft. 8 in. of coal with a dip of 23 degrees. It is believed the latter seam is workable under present conditions and that it will maintain the</p>				

Wilburton District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
	same thickness and dip throughout the entire tract. Conditions on leased land adjoining this tract on the south are such that it is believed coal of good thickness and quality underlies this tract. The Chicago, Rock Island & Pacific Railroad crosses the southern boundary of this tract.			
42	SE4; E2 of SW4 of Sec. 25 and N2 of NE4; NE4 of NW4 of Sec. 36, Twp. 6 N., R. 22 E and SW4 of SW4 of Sec. 29 and Lot 4; SE4 of SW4; S2 of SE4 of Sec. 30 and NE4; E2 of NW4; Lots 1 & 2 of Sec. 31 and W2 of NW4 of Sec. 32, Twp. 6 N., R. 23 E.	951.50	\$30.00	\$28,545.00
	Both the McAlester and lower Hartshorne seams are believed to underlie this tract. The outcrop of the McAlester seam crosses the southern boundary and is about 2 ft. 8 in. thick, with a dip about 23 degrees. The Hartshorne seam is estimated to lie at a depth of from 1200 to 1300 ft. The main line of the Chicago, Rock Island & Pacific Railroad crosses the southern boundary of tracts 41 and 42.			
43	Lots 1, 2, 3 & 4; S2 of N2 of Sec. 1 and Lot 1; SE4 of NE4 of Sec. 2, Twp. 5 N., R. 22 E. and Lots 4 & 5 of Sec. 6, Twp. 5 N., R. 23 E.; S2 of NE4; SE4 of NW4; SE4 and W2 of SW4 of Sec. 36 Twp. 6 N., R. 22 E., and NE4 of SW4; Lots 3 & 4 of Sec. 31, Twp. 6 N., R. 23 E.	951.18	\$45.00	\$42,803.10
	This tract contains both the Hartshorne and McAlester seams. The Hartshorne outcropping near the southern boundary and the McAlester outcropping near the northern boundary of the tract, the latter being about 2 ft. 8 in. thick, with a dip of about 23 degrees. The tract is bounded on the west by leased land on which there are mines operating in the Hartshorne seam which is about 4 ft. thick, with a dip of about 30 degrees. The Chicago, Rock Island & Pacific Railroad crosses the northern boundary of this tract.			
44	Lots 2, 3 & 4; SW4 of NE4; S2 of NW4 of Sec. 5 and Lots 1, 2 & 3; S2 of NE4; SE4 of NW4 of Sec. 6, Twp. 5 N., R. 23 E and SE4 of SW4; SE4 of Sec. 31 and SW4; W2 of SE4 of Sec. 32, Twp. 6 N., R. 23 E.	928.33	\$20.00	\$18,566.60
	Only the lower Hartshorne seam underlies this tract. A prospect hole sunk several years ago near the outcrop in the NW4 of the NW4 of Section 5 to a depth of 7 ft. 4 in. showed the seam divided into two beds, the first only 10 in. thick, underlaid with 3 ft. of shale with coal seams and the shale being underlaid with a bed of coal 1 ft. 6 in. thick. Although this is only a crop opening, coal in workable quantities is known to exist to the west of tract 43 and it is, therefore, believed that coal in workable quantities and of good quality underlies this tract. The Chicago, Rock Island & Pacific Railroad runs one-fourth mile north of this tract.			
45	Lots 3 & 4 of Sec. 4 and Lot 1; SE4 of NE4 of Sec. 5, Twp. 5 N., R. 23 E. and SW4 of SW4 of Sec. 28 and S2 of SE4; SE4 of SW4 of Sec. 29 and E2 of E2; W2 of NE4; E2 of NW4 of Sec. 32 and W2 of W2; SE4 of NW4; E2 of SW4 of Sec. 33, Twp. 6 N., R. 23 E.	924.60	\$40.00	\$36,984.00
	This tract contains both the lower Hartshorne and McAlester seams which occur under practically the same conditions as in tracts 42 and 44. The Hartshorne seam outcrops near the southern boundary and the McAlester crop crosses from east to west a little north of the center of the tract. It is estimated the thickness of the McAlester seam is 2 ft. 4 in. with a dip of about 35 degrees and the Hartshorne seam 3 ft. 6 in. with a dip of 35 degrees. The Government, however, sunk a diamond drill hole in Section 4 in this tract to a depth of 155 ft. but encountered no coal but which fact was probably due to a local defect in the seam. The Chicago, Rock Island & Pacific Railroad runs through this tract.			

Wilburton District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
6	Lots 1 & 2 of Sec. 4, Twp. 5 N., R. 23 E. and SW4 of SW4 of Sec. 27 and S2 of SE4; SE4 of SW4 of Sec. 28 and E2; NE4 of NW4 of Sec. 33 and W2 of Sec. 34, Twp. 6 N., R. 23 E.	922.82	\$40.00	\$36,912.80
	This tract is believed to contain both the Hartshorne and McAlester seams under the same conditions as in tract 45. The outcrop of the Hartshorne seam crosses the southern boundary and the outcrop of the McAlester seam extends across the tract in a west-east direction a little north of the center. The Chicago, Rock Island & Pacific Railroad runs through this tract.			
47	S2 SW4 of of Sec. 26 and S2 of SE4; SE4 of SW4 of Sec. 27 and E2 of Sec. 34 and W2 of SE4; SW4 of NE4; W2 of Sec. 35, Twp. 6 N., R. 23 E.	960	\$40.00	\$38,400.00
	This tract is believed to contain both the Hartshorne and McAlester seams under practically the same conditions as in tracts 45 and 46. The Chicago, Rock Island & Pacific Railroad runs through this tract.			
48	S2 of S2 of Sec. 25 and S2 of SE4 of Sec. 26 and N2 of NE4; SE4 of NE4; NE4 of SE4 of Sec. 35 and N2; SW4 of SE4; N2 of S2; SE4 of SW4 of Sec. 36, Twp. 6 N., R. 23 E.	960	\$40.00	\$38,400.00
	This tract is believed to contain both the Hartshorne and McAlester seams under practically the same conditions as in tracts 45, 46 and 47. The Chicago, Rock Island & Pacific Railroad runs through this tract.			

SCHEDULE OF APPRAISEMENT OF SEGREGATED UNLEASED COAL DEPOSITS.

Stigler District, Choctaw Nation, Oklahoma.

The so-called Stigler Coal Field, embracing 25,392 acres, is located in Haskell County, Oklahoma, the nearest point about one mile from Stigler, the county seat. Practically all the surface of the Stigler Field has been sold. The appraisalment herein after indicated on each tract is for the coal rights only.

Mr. J. A. Taff, Geologist, United States Geological Survey, made an examination of the coal outcrop in this District and segregated this Coal Field, acting under instructions from the Secretary of the Interior, and submitted a report with reference thereto in 1904, which was approved by the Department, and the acreage in each tract, as indicated by him, is followed in this report.

In 1908 Mr. William Cameron, United States Supervisor of Mines, examined and reported upon the value of the Stigler Coal Field, at which time there had been no drilling and very little exploring or prospecting work done in this field.

The Midland Valley Railroad had barely reached Stigler at that time and Mr. Cameron did not appraise each tract but merely valued the Field as a whole and estimated at that time that one-half of the entire area was underlaid with workable coal which he valued at \$20 per acre or a total of \$253,920.

The coal seam in the Field is from 22 to 30 in. thick, and from indications at or near the crop lies from 18 to 60 ft. below the surface and consists of clean bright coal which proves by analysis to be an excellent quality of blacksmith coal, ranking with the best in Oklahoma, and should supply the local demand for such fuel which now is entirely supplied from Pennsylvania and West Virginia; moreover the coal lies at a low angle of dip making it easily workable by steam shovels. Similar thin coal seams are now being stripped by steam shovels in other parts of Oklahoma and recently steam shovels have been installed on adjoining lands underlaid with this coal but which were not included in the segregated Field. This improvement in the method of coal stripping gives the thin coal seams a value which they did not formerly have, and such deposits are now being eagerly sought by steam shovel operators, and it is therefore believed that this Coal Field will be attractive to such coal producers.

In the following schedule the explanation of each tract follows the appraisalment:

Stigler District Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisement Total
49	SW4 of Sec. 4 and S2 of SE4 of Sec. 5 and E2 of Sec. 8 and W2 of SE4 and W2 of Sec. 9, Twp. 9 N., R. 20 E.	960	\$50.00	\$48,000.00
<p>This tract lies with one extremity on the banks of the Canadian River; while no outcrops are shown on this tract it adjoins tract No. 50 on which there is an old strip pit showing coal of workable thickness and this coal undoubtedly extends over tract 49. Moreover, the northern boundary of tract 49 is only a very short distance from the main line of the Midland Valley Railroad, and this gives the tract an added value. All of this tract, it is considered, is underlaid with coal.</p>				
50	SE4 of NE4; W2 of NE4; SE4; W2 of Sec. 16 and E2 of E2 and NW4 of SE4 of Sec. 17 and N2 of N2 of Sec. 21, Twp. 9 N., R. 20 E.	960	\$50.00	\$48,000.00
<p>On allotted land immediately adjoining this tract there is an old strip pit showing coal of workable thickness. The coal seam dips to the northeast and the outcrop of coal also appears on the southeastern edge of this tract. All of this tract, it is considered, is underlaid with coal.</p>				
51	SW4; SW4 of NW4 of Sec. 3 and SE4 of NE4; SE4 of Sec. 4 and NE4; E2 of SE4 of Sec. 9 and W2 of Sec. 10, Twp. 9 N., R. 20 E.	960	\$50.00	\$48,000.00
<p>This tract fronts on the Midland Valley Railroad, and is undoubtedly underlaid by the same coal shown on the adjoining tract No. 54 to the south. All of this tract, it is considered, is underlaid with coal.</p>				
52	Lots 2, 3 & 4; SW4 of NE4; W2 of SE4; SW4; S2 of NW4 of Sec. 2 and Lots 1, 2, 3 & 4; S2 of NE4; SE4; SE4 of NW4 of Sec. 3, Twp. 9 N., R. 20 E.	924.03	\$50.00	\$46,201.50
<p>Also fronts on the main line of the Midland Valley Railroad, and undoubtedly carries the same coal as the adjacent tracts. The shape of this tract with its large frontage on the railroad gives it a good value for mining purposes. All of this tract, it is considered, is underlaid with coal.</p>				
53	E2 of Sec. 10 and All of Sec. 11, Twp. 9 N., R. 20 E.	960	\$50.00	\$48,000.00
<p>The main line of the Midland Valley Railroad traverses this tract. The southeastern outcrop of the Stigler seam crosses the southeastern extremity of this tract and the coal should be easily mined from the crop at this point by stripping operations. The seam dips to the northwest away from the crop at a low angle and the seam should be nearly flat in the center of the basin to which the western boundary of the tract extends and the seam should be under moderate cover at that point. All of this tract, it is considered, is underlaid with coal.</p>				
54	NW4 of NE4; SW4; SW4 of NW4; N2 of NW4 of Sec. 14 and N2; W2 of SE4; SW4 of Sec. 15 and NE4 of NE4 of Sec. 16, Twp. 9 N., R. 20 E.	920	\$50.00	\$46,000.00
<p>An old strip pit on this tract shows coal in workable quantities, the seam is from 2 ft. to 2 ft. 3 in. thick, and the dip is to the northwest, the outcrop of the coal seam as indicated on the map extends across the tract from northeast to southwest. There is about 820 acres in this tract underlaid with coal.</p>				
55	Lots 2, 3 & 4; SW4 of NE4; W2 of SE4; SW4; S2 of NW4 of Sec. 1 and Lot 1; SE4 of NE4; E2 of SE4 of Sec. 2 and W2 of NE4; NW4 of SW4; SW4 of NW4; N2 of NW4 of Sec. 12, Twp. 9 N., R. 20 E.	881.39	\$50.00	\$44,069.50
<p>The outcrop of the coal seam crosses the southern extremity of this tract and the coal</p>				

Stigler District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisement Total
<p>seam extends under the entire tract, the dip being in a northwesterly direction. This tract is within easy reach of the main line of the Midland Valley Railroad. All of this tract, it is considered, is underlaid with coal.</p>				
56	SE4 of NE4; E2 of SE4 of Sec. 1 and E2 of NE4 of Sec. 12, Twp. 9 N., R. 20 E. and S2 of NE4; SE4; E2 of SW4; SE4 of NW4; Lots 5, 6 & 7 of Sec. 6 and N2 of NE4; SW4 of NE4; E2 of NW4; Lots 1 & 2 of Sec. 7, Twp. 9 N., R. 21 E.	951.49	\$50.00	\$47,574.50
<p>Near the southeastern boundary of this tract there is an old strip pit from which coal has recently been mined, and there is 22 in. of coal showing in this strip pit, the dip of the seam which is about 2 to 3 degrees being to the northwest. All of this tract, it is considered, is underlaid with coal.</p>				
57	W2 of SW4 of Sec. 25 and S2 of S2 of Sec. 26 and E2; E2 of W2; SW4 of SW4; NW4 of NW4 of Sec. 35 and W2 of W2 of Sec. 36, Twp. 10 N., R. 20 E.	960	\$45.00	\$43,200.00
<p>This tract on its northeastern extremity reaches the banks of the Canadian River. There are no openings on this tract, but the coal seam undoubtedly extends under it. It is within easy reach of the main line of the railroad. All of this tract, it is considered, is underlaid with coal.</p>				
58	S2 of NE4; SE4; S2 of SW4 of Sec. 23 and W2 of SW4 of Sec. 24 and W2 of NW4 of Sec. 25 and NE4; E2 of NW4; NW4 of NW4; Lot 1; NE4 of SW4; Lot 2; N2 of SE4 of Sec. 26, Twp. 10 N., R. 20 E.	959.75	\$35.00	\$33,591.25
<p>This tract also extends to the banks of the Canadian River. While no openings have been made on it for the production of coal, it is believed that the coal seam extends under the entire tract; moreover, the seam at this point will probably be thicker than on the southeast end of the basin, since all the coal to the northeast is thicker. This tract can be reached by a spur from the Midland Valley Railroad. All of this tract, it is considered, is underlaid with coal.</p>				
59	E2 of SE4; SW4 of SE4; SE4 of SW4 of Sec. 13 and E2; E2 of W2; W2 of NW4 of Sec. 24 and NE4; E2 of NW4 of Sec. 25, Twp. 10 N., R. 20 E.	960	\$35.00	\$33,600.00
<p>This tract is adjacent to tract No. 63, on which the coal crop appears and is undoubtedly underlaid with the same coal. The shape of the tract is such that it probably will have to be mined through tract 58. All of this tract, it is considered, is underlaid with coal.</p>				
60	SE4; E2 of SW4 of Sec. 25 and N2 of NE4; NE4 of NW4 of Sec. 36, Twp. 10 N., R. 20 E. and W2 of SW4 of Sec. 29 and SE4; E2 of SW4; Lots 3 & 4 of Sec. 30 and N2 of NE4; NE4 of NW4; Lot 1 of Sec. 31 and NW4 of NW4 of Sec. 32, Twp. 10 N., R. 21 E.	954.70	\$40.00	\$38,188.00
<p>The coal on this tract will probably have to be mined by means of relatively shallow shafts, and it is believed that the coal underlying this tract is about in the center of the basin and that the coal seam at this point will be somewhat thicker than that in those tracts nearer the outcrop. All of this tract, it is considered, is underlaid with coal.</p>				

Stigler District Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
61	Lot 1 of Sec. 1 and S2 of NE4; SE4; E2 of SW4; SE4 of NW4 of Sec. 36, Twp. 10 N., R. 20 E.; Lots 2, 3 & 4 of Sec. 6, Twp. 9 N., R. 21 E. and S2 of NE4; N2 of SE4; SW4 of SE4; E2 of SW4; SE4 of NW4; Lots 2, 3 & 4 of Sec. 31, Twp. 10 N., R. 21 E.	953.48	\$45.00	\$42,906.60
It is believed that the coal under this tract will lie under conditions similar to that under which it occurs in tract 60 and it will probably be necessary to mine it by means of shallow shafts or slopes worked in connection with stripping operations on tract 62. All of this tract, it is considered, is underlaid with coal.				
62	Lots 1, 2, 3 & 4; S2 of N2; NW4 of SE4; SW4 of Sec. 5 and Lot 1 of Sec. 6, Twp. 9 N., R. 21 E. and SE4 of SE4 of Sec. 31 and S2 of Sec. 32, Twp. 10 N., R. 21 E.	921.45	\$50.00	\$46,072.50
This tract is immediately adjacent to stripping operations on which work is being done at the present time, the over burden being removed by steam shovels, the coal in the strip pits immediately in front shows a thickness of 22 in. of clean bright coal. The seam dips to the northwest from 2 to 3 degrees. The over burden at the point where stripping operations are at present being carried out varies in thickness from 12 to 14 ft. All of this tract, it is considered, is underlaid with coal.				
63	SW4 of SW4 of Sec. 17 and E2; E2 of SW4; SE4 of NW4; Lots 3 & 4 of Sec. 18 and NE4; E2 of NW4; Lots 1 & 2 of Sec. 19 and W2 of NW4 of Sec. 20, Twp. 10 N., R. 21 E.	951.51	\$30.00	\$28,545.30
The outcrop of the Stigler Field crosses the northern end of this tract, and it is believed that the coal seam here will be of a thickness rather greater than in the eastern slope of the Field and that it will be found in such condition and can be worked very profitably. All of this tract, it is considered, is underlaid with coal.				
64	SE4; E2 of SW4; Lots 3 & 4 of Sec. 19 and SW4 of Sec. 20 and NW4 of Sec. 29 and NE4; E2 of NW4; Lots 1 & 2 of Sec. 30, Twp. 10 N., R. 21 E.	952.10	\$40.00	\$38,084.00
This tract occupies also the central portion of the basin, and the coal should be found there lying relatively horizontal and probably at a greater thickness than where it is found on the outcrop. It will probably be necessary to reach the coal at this point by shallow shafts. All of this tract, it is considered, is underlaid with coal.				
65	SW4 of SE4; S2 of SW4 of Sec. 28 and SE4; E2 of SW4 of Sec. 29 and NE4; E2 of NW4; SW4 of NW4 of Sec. 32 and NW4 of NE4; SW4 of SW4; N2 of SW4; NW4 of Sec. 33, Twp. 10 N., R. 21 E.	960	\$50.00	\$48,000.00
This tract is crossed by the outcrop of the Stigler Field on its southeastern boundary and stripping operations will undoubtedly be carried out at this point and coal should be found lying at a very low angle and at a thickness varying from 22 in. to 26 in. All of this tract, it is considered, is underlaid with coal.				
66	S2 of SE4 of Sec. 8 and E2; E2 of W2; NW4 of SW4; W2 of NW4 of Sec. 17 and NE4; E2 of NW4 of Sec. 20, Twp. 10 N., R. 21 E.	920	\$30.00	\$27,600.00
This tract is on the northwestern side of the Stigler basin with the outcrop of the seam extending across its northern boundary. The coal seam dips toward the southeast at a low angle and should be of good thickness, under this tract, and readily mined by stripping opera-				

Stigler District Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
tions starting at the northern boundary of the tract. The coal in the southern portion of this tract should lie practically horizontal and will probably have to be mined by shallow shafts or slopes, but such operations can be carried out in conjunction with the stripping operations on the same tract and the total cost of operations in this way reduced to a minimum. All of this tract, it is considered, is underlaid with coal.				
67	SE4 of Sec. 20 and S2 of S2; N2 of SW4 of Sec. 21 and N2 of N2; SW4 of NE4; NW4 of SE4; N2 of SW4; S2 of NW4 of Sec. 28 and NE4 of Sec. 29, Twp. 10 N., R. 21 E.	960	\$45.00	\$43,200.00
This tract is in the southeastern portion of the Stigler basin. The outcrop crosses the eastern boundary of this tract, the seam dipping to the west away from the outcrop at a low angle. In common with tracts 62 and 65 tract 67 should prove to be well adapted to production of coal by stripping. All of this tract, it is considered, is underlaid with coal.				
68	S2 of Sec. 9 and SW4; S2 of NW4 of Sec. 10 and N2 of NW4 of Sec. 15 and N2 of Sec. 16, Twp. 10 N., R. 21 E.	960	\$30.00	\$28,800.00
This tract is along the northwestern side of the basin and will probably have to be mined entirely from the western outcrop. The outcrop crosses the northern boundary of the tract dipping toward the southeast at a low angle. It is believed the coal under this tract will prove to be of good thickness. The south end of this tract is under the middle of the basin. The tract covers a considerable extent of the western outcrop. All of this tract, it is considered, is underlaid with coal.				
69	S2 of SW4 of Sec. 15 and S2 of Sec. 16 and N2; N2 of SE4 of Sec. 21 and SW4 of NW4; N2 of NW4; NW4 of SW4 of Sec. 22, Twp. 10 N., R. 21 E.	960	\$35.00	\$33,600.00
The outcrop extends across the southeastern end of this tract. The north and west portion of the tract is near the center of the basin and the coal should be under moderate cover at that point, and should lie practically horizontal. There is an abandoned strip pit on allotted land about 1½ miles east of the tract which shows coal of 2 ft. 3 in. thick, clean, and free from partings. All of this tract, it is considered, is underlaid with coal.				
70	NE4 of NE4; S2 of NE4; ST4 of Sec. 10 and W2 of W2 of Sec. 11 and W2 of NW4 of Sec. 14 and NE4; N2 of SE4 SW4 of SE4; N2 of SW4; S2 of NW4 of Sec. 15, Twp. 10 N., R. 21 E.	960	\$30.00	\$28,800.00
This tract extends entirely across the Stigler coal basin, the western outcrop cutting across the northern boundary and the eastern crop extending across the southern boundary of the tract. This tract is capable of being mined from the western crop or the eastern crop as thought desirable, or it can be mined from both crops if thought advisable. The coal seam at this point will probably be found to have a greater dip than on the adjacent tracts but the dip is toward the center of the tract. All of this tract, it is considered, is underlaid with coal.				
71	E2; E2 of W2 of Sec. 11 and SW4 of NE4; NW4 of SE4; NE4 of SW4; W2 of SW4; NW4 of Sec. 12 and N2 of NE4; NE4 of NW4 of Sec. 14, Twp. 10 N., R. 21 E.	960	\$25.00	\$24,000.00
This tract which is in the southeastern part of the basin embraces an unusually long extent of the eastern crop which will permit of several mining operations being carried on at the same time, with the result that a good output can be quickly obtained. It is believed that the coal seam will be found to have good thickness and to lie at a low angle of dip. The dip is toward the northwest, at a low angle, from the eastern outcrop. All of this tract, it is considered, is underlaid with coal.				

Stigler District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
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72	S2 of N2; S2 of Sec. 1 and S2 of NE4; SE4; E2 of SW4; SW4 of SW4 of Sec. 2 and N2 of NE4 of Sec. 12, Twp. 10 N., R. 21 E.....	960	\$25.00	\$23,000.00
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The western outcrop cuts across the western boundary of this tract and the eastern outcrop cuts across the eastern boundary. This condition will permit the coal to be mined from either or from both outcrops, as thought desirable. This tract adjoins tract 73 adjacent to which there is a strip pit in which the coal seam is shown to be 2 ft. 2 in. thick, the seam being composed entirely of clean coal. The dip from both outcrops is toward the center of the tract at a low angle.

All of this tract, it is considered, is underlaid with coal.

73	Lots 1, 2, 3 & 4 of Sec. 1 and Lot 1 of Sec. 2, Twp. 10 N., R. 21 E. and S2 of NE4; S2; SE4 of NW4 of Sec. 36, Twp. 11 N., R. 21 E. and SW4 of NE4; SW4 of SE4; E2 of SW4; SE4 of NW4; Lots 2, 3 & 4 of Sec. 31, Twp. 11 N., R. 22 E.....	954.59	\$20.00	\$19,091.80
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This tract also extends entirely across the Stigler basin, with the western outcrop on the western boundary of the tract and the eastern outcrop on the eastern boundary. A strip pit on allotted land immediately adjacent of the western limits of this tract shows the coal seam to be 2 ft. 2 in. thick, clean, of good quality and lying at a low angle of dip, the dip being toward the center of the tract at from 3 to 4 degrees.

All of this tract, it is considered, is underlaid with coal.

74	NE4 of NE4; S2 of NE4; SE4 of Sec 25 and N2 of NE4; NE4 of NW4 of Sec. 36, Twp. 11 N., R. 21 E. and SE4 of SW4; Lot 4 of Sec. 19 and SW4 of SE4; E2 of W2; Lots 1, 2, 3 and 4 of Sec. 30 and NW4 of NE4; NE4 of NW4; Lot 1 of Sec. 31, Twp. 11 N., R. 22 E.....	947.96	\$15.00	\$14,219.40
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The Western outcrop extends along the western and northern boundaries of this tract. Several old prospect pits on the western limits of the tract show where the coal seam was mined at one time. The dip at this point is toward the southeast at about 5 to 6 degrees. At the extreme northern end of the tract, on the banks of Brier Creek is an old abandoned slope opening from which coal was mined ten to fifteen years since. The coal seam, where exposed in the slope mouth, is 30 in. in thickness and dipping to the southeast at an angle of about 10 degrees. The coal is clean and bright looking and free from horizontal slate bands, but is cut vertically by soft clay seams. These seams are about 2 in. in thickness and about 2 ft. apart. It is believed that they are only local occurrence and that they will disappear with deeper mining. The coal mined in this opening was doubtless intended to supply the town of Tamaha, about two miles east of this opening, with fuel. The cover over the coal seam at this point is about one hundred feet in thickness.

All of this tract, it is considered, is underlaid with coal.

75	S2 of SE4 of Sec. 19 and SW4 of NE4; NW4 of SE4; NE4 of SW4; W2 of SW4; NW4 of Sec. 29 and E2 of E2; NW4 of SE4; W 2 of NE4 of Sec. 30 and NE4 of NE4 of Sec. 31, Twp. 11 N., R. 22 E.....	760	\$15.00	\$11,400.00
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This tract is in the extreme northeastern end of the basin. The outcrop extends almost entirely around this tract, the western boundary of the tract being the only boundary that is not paralleled by the crop on tract 74. On the northwestern side the dip is toward the south at an angle varying from 10 to 15 degrees; on the eastern crop the dip is to the west and north-west. This tract should contain coal equal in quality to that found on tract 74.

All of this tract, it is considered, is underlaid with coal.

SCHEDULE OF APPRAISEMENT OF SEGREGATED UNLEASED COAL DEPOSITS.

(Howe-Poteau District, Choctaw Nation, Oklahoma.)

There are seven seams of coal in the Howe-Poteau District: namely, the lower Hartshorne, the upper Hartshorne, two McAlester, the Cavinal and two Witteville. In the Howe division of this District the only seams found are the two Hartshorne and two McAlester, the lower Hartshorne being the most extensively worked. In the southern part of the Poteau division the Cavinal lies some distance above the McAlester seams. In the northern part of the Poteau division the Witteville seams lie some distance above the Cavinal seam.

The lower Hartshorne seam in the Howe division varies from 3 to 5 ft. thick, averaging about 4 ft. of clean coal, with a dip varying from 8 to 20 degrees. This coal is used for railroad steam purposes and in the manufacture of coke.

The upper Hartshorne is not worked in the Howe division on account of its thinness, where it is not known to occur in greater thickness than 3 ft., reaching this thickness only occasionally. The upper Hartshorne does not outcrop in the Poteau division and is not considered workable because of its extreme depth.

The McAlester seams are not workable in the Howe division because of their thinness. They do not outcrop in the Poteau division and are considered unworkable because of their extreme depth.

The Cavinal seam outcrops along the foot of the Cavinal Mountain, where it is from 2 ft. 6 in. to 3 ft. thick, of clean coal, with a dip of from 6 to 10 degrees. This coal is apparently of good quality, with splendid appearance when freshly mined, of easy access to railroad transportation and susceptible to easy and cheap mining.

The two Witteville seams outcrop in the Canival Mountain about 1400 ft. above the horizon of the McAlester seam. These seams are about 200 ft. apart, vertically, the upper about 3 ft. 10 in. thick over all, having a thin parting of shale or bony coal from one-fourth to one-half inch thick above the center of the seam; the lower about 4 ft. 4 in. thick over all, having a dirt band in the middle ranging from 4 ft. 8 in. thick. In some places one of these seams is mined and in other places the other seam is mined, depending upon the condition in which the seams occur and the ease of mining.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
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1	SE4 of Sec. 26; N2 of NE4 and SE4 of NE4 of Sec. 35; S2 of N2 of Sec. 36 and S2 of NW4 of Sec. 25, Twp. 5 N., R. 26 E.....	520.00	\$50.00	\$ 26,000.00
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This tract is in the extreme western end of the so-called Mitchell basin and is underlaid only by the McAlester seam. The dip on the northwest side being toward the southeast and on the south side toward the north, at an angle of about 5 degrees. Judging from a drill hole sunk near the center of Section 30, the coal in this tract has an average thickness of about 3 ft. 6 in.

The Kansas City Southern Railroad crosses this tract.

2	Lot 4 of Sec. 4; Lots 1, 2, 3 & 4 and SW4 of NE4 and S2 of NW4 of Sec. 5; Lots 1, 2, 3, 4 and 5 and S2 of NE4 and SE4 of NW4 of Sec. 6, Twp. 5 N., R. 26 E.; SE4 of NE4 and Lot 1 of Sec. 1 Twp. 5 N. R. 25 E.; SE4 of SE4 of Sec. 31. S2 of S2 of Sec. 32, Twp. 6 N., R. 26 E.....	920.66	\$40.00	\$36,826.40
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This tract is believed to contain the lower Hartshorne seam, the outcrop of which being on adjoining leased land. It is considered that the coal in the southeast corner lies at a depth varying from 600 to 700 ft., dipping toward the northeast at a low angle, increasing considerably toward the eastern end of the tract. Judging from a prospect hole drilled by the Rock Island Coal Company, some years ago, on leases 26 and 27 adjoining, the coal in this tract should have an average thickness of about 4 ft. 2 in. with a dip of about 5 degrees.

The Kansas City Southern Railroad crosses this tract.

Howe-Poteau District Unleased—Continued.

Tract No. on Map	Area	Appraisalment Per Acre	Total
3 SW4 and SW4 of NW4 of Sec. 4; S2 and SE4 of NE4 of Sec. 5; E2 of SE4 of Sec. 6; NE4 of NE4 of Sec. 7; N2 of N2 of Sec. 8; NW4 of NE4 and N2 of NW4 of Sec. 9, Twp. 5 N., R. 26 E.....	960	\$40.00	\$38,400.00

This tract is believed to contain only the lower Hartshorne seam, the outcrop being on adjoining leased land. In the southeastern corner the coal is estimated to be at a depth of 800 ft., dipping to the east. It is estimated that this entire tract is underlaid with coal, averaging about 4 ft. 2 in. thick, with a dip of about 5 degrees, judging from a prospect hole sunk on leases 26 and 27 referred to in tract 2.

The Kansas City Southern Railroad runs one-half mile west of this tract.

4 SE4 of NE4 and E2 of SE4 of Sec. 7; S2 of N2 and S2 of Sec. 8; SW4 of NE4 and W2 of SE4 and SW4 and S2 of NW4 of Sec. 9, Twp. 5 N., R. 26 E.....	960	\$40.00	\$38,400.00
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This tract is believed to contain the lower Hartshorne seam, the outcrop being on adjoining leased land. It is estimated that in the southeastern corner the coal lies at a depth of about 300 feet, with a dip of from 5 to 10 degrees to the east. It is estimated that the entire acreage of this tract is underlaid with coal averaging about 4 ft. 2 in. thick.

The Kansas City Southern Railroad runs one-fourth mile west of this tract.

5 (Parcel 1) NE4 and W2 of SE4 and W2 of Sec. 16; E2 of Sec. 17, Twp. 5 N., R. 26 E.....	880	\$45.00	\$39,600.00
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This tract contains the lower Hartshorne seam, the outcrop of which being on adjoining leased land. The coal in the southeastern part is estimated to lie at a depth of about 700 ft., dipping to the east about 5 degrees. A drill hole sunk by the Rock Island Coal Company some years ago on the north half of lease 28 showed the coal to be 3 ft. 6 in. thick, at a depth of 69 ft., but very faulty; at a depth of 198 ft. the coal was only 2 in. thick; however, from recent developments on leased land adjoining, it is believed that coal in workable quantity will be found under this entire tract.

The Kansas City Southern Railroad runs 1 mile west of this tract.

5 (Parcel 2) NE4 of NW4 of Sec. 18, Twp. 5 N., R. 26 E.....	40	\$45.00	\$1,800.00
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This tract contains the lower Hartshorne seam, the outcrop of which extending across in a southeast and northwest direction, dipping toward the northeast. This tract contains about 20 acres of coal and it is believed it will be found to be the same thickness as in tract 1.

The Kansas City Southern Railroad crosses this tract.

6 E2 and E2 of SW4 of Sec. 20; SW4 of SE4 and W2 of Sec. 21; NW4 of NE4 and N2 of NW4 of Sec. 28; N2 of NE4 of Sec. 29, Twp. 5 N., R. 26 E.....	960	\$50.00	\$48,000.00
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This tract is believed to contain the lower Hartshorne seam and it lies in the central part of the so-called Mitchell basin. In the southeastern part of the tract the coal dips toward the north. A drill hole sunk by the C. O. & G. R. R. Company some years ago in the SE4 of the SW4 of the NE4 of Section 19, showed at 45 ft., 5 in. of coal, at 176 ft., 2 ft. 4 in. of coal at 188 ft., 8 in. of coal, at 191 ft., 4 in. of coal, and at 253 ft., 3 ft. 8 in. of coal, but faulty. The drill hole was sunk 356 ft. but no coal was found below 253 ft. Recent developments on leased land lying between this tract and the outcrop lead to the conclusion that this entire tract is underlaid with workable coal.

The Kansas City Southern Railroad runs three-fourths mile west of this tract.

Howe-Poteau District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
7	SW4 of NE4 and W2 of SE4 and SW4 and S2 of NW4 of Sec. 28; S2 of NE4 and S2 and E2 of NW4 of Sec. 29; NW4 of NE4 and N2 of NW4 of Sec. 32, Twp. 5 N., R. 26 E.....	960	\$20.00	\$19,200.00

This tract contains the lower Hartshorne seam, the outcrop of which crossing the southern boundary, dipping from 20 to 30 degrees a little west of north, decreasing until it becomes practically flat in the northwestern part near the center of the Mitchell basin. A drill hole sunk by the C. O. & G. R. R. Company some years ago in the SE4 of the SE4 of Section 29 to a depth of 87 ft. showed at 38 ft., 9 in. of coal, and at 39 ft., 3 in. of coal. This single drill hole should not condemn this tract and considering conditions on adjoining tracts, it is believed this tract is underlaid with at least 900 acres of workable coal.

The Waldron branch of the Kansas City Southern Railroad crosses this tract.

8 SW4 of SE4 of Sec. 23; W2 of NE4 and NW4 of Sec. 26; N2 and N2 of SE4 and SW4 of SW4 and N2 of SW4 of Sec. 27; E2 of E2 of Sec. 28, Twp. 5 N., R. 26 E.....	960	\$40.00	\$38,400.00
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This tract contains the lower Hartshorne seam, outcropping across the southeastern boundary and dipping to the northwest from 30 to 40 degrees. Government prospect hole sunk in about the SW4 of the SW4 of Section 27 on the crop showed 1 ft. 9 in. of coal, 1 ft. of shale band and 1 ft. 6 in. of coal, believed to be the lower Hartshorne seam, which it is believed demonstrates that this tract contains workable coal. The nearest mining operations on this seam show the coal to be of good quality.

The Waldron branch of the Kansas City Southern Railroad crosses the southern boundary of this tract.

9 SE4 of SE4 of Sec. 23; S2 of Sec. 24; N2 of NW4 of Sec. 25; E2 of NE4 of Sec. 26, Twp. 5 N., R. 26 E.; NE4 of NE4 and S2 of N2 and N2 of S2 and SW4 of SW4 of Sec. 19, Twp. 5 N., R. 27 E.....	920	\$45.00	\$41,400.00
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This tract contains the Hartshorne seam, occurring under the same conditions as in tract 8. Two Government crop prospect holes sunk on this tract, one in the SW4 of the SW4 of Section 9, to a depth of about 10 ft. showed 3 ft. of shale, 5 ft. of coal and 1 ft. of fire clay with coal seams; the other in about the NW4 of the NE4 of Section 35 showed 1 ft. of dark shale with coal seams, 2 ft. 3 in. of coal, 5 in. of shale band and 2 ft. of coal. In Arkansas, and on adjoining tract No. 10, this seam is 4 ft. thick, and is being mined extensively.

The Waldron branch of the Kansas City Southern Railroad crosses the southern boundary of this tract.

10 Lots 2 and 3 of Sec. 15; SE4 of NE4 and S2 of Sec. 16; S2 of SE4 and SE4 of SW4 of Sec. 17; N2 of N2 and S2 of NW4 of Sec. 20; NW4 of NW4 of Sec. 21, Twp. 5 N., R. 27 E.....	824.76	\$45.00	\$37,115.10
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This tract is believed to contain the lower Hartshorne seam, occurring under practically the same conditions as in tract No. 9. It is considered that this tract contains the same thickness of coal as is found in the mine at Coaldale, Arkansas; adjacent to this tract on the east where the coal is 4 ft. thick. A short standard gauge railroad known as the Arkansas Western, connecting with the Kansas City Southern at Heavener, Oklahoma, extends across tracts 7, 8, 9 and 10.

11 SW4 of SW4 of Sec. 29; SE4 and E2 of SW4 and Lots 3 and 4 of Sec. 30; NE4 and N2 of SE4 and NE4 of SW4 and E2 of NW4 and Lots 1, 2 and 3 of Sec. 31; NW4 of SW4 and W2 of NW4 of Sec. 32, Twp. 6 N., R. 24 E.....	953.08	\$35.00	\$33,357.08
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This tract contains both the lower Hartshorne and McAlester seams, the outcrops of the former being near the southern boundary of the tract, while the McAlester outcrop extends

Howe-Poteau District, Unleased—Continued

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
12	W2 of SW4 of Sec. 28; S2 of NE4 of SE4 and E2 of SW4 and NW4 of SW4 and SE4 of NW4 of Sec. 29; NE4 and N2 of SE4 and NE4 of SW4 and E2 of NW4 of Sec. 32; NW4 of SW4 and W2 of NW4 of Sec. 33, Twp. 6 N., R. 24 E.....	960	\$35.00	\$33,600.00
<p>This tract contains both the Hartshorne and McAlester seams under the same conditions as in tract No. 11, the Hartshorne outcropping near the southern boundary of the tract and the McAlester near the southern side of Section 29. A Government drill hole, sunk in 1908, in the NE4 of the SW4 of Section 28 showed at 56 ft. what is believed to be the McAlester seam, 3 in. of coal, at 74 ft., 6 in. of coal, and at 107 ft., 6 in. of coal, with a dip of 20 degrees. Under present conditions it is not believed the McAlester seam is workable on this tract, however, recent developments to the east lead to the conclusion that the lower Hartshorne will be found in workable thickness under this entire tract and that the dip of the seam will materially decrease with depth. The St. Louis-San Francisco Railroad crosses the southern boundary and the Chicago, Rock Island & Pacific Railroad the northwestern boundary.</p>				
13	W2 of SW4 of Sec. 27; S2 of NE4 and SE4 and E2 of SW4 and S2 of NW4 of Sec. 28; NE4 and N2 of SE4 and NE4 of SW4 and E2 of NW4 of Sec. 33 NW4 of SW4 and W2 of NW4 of Sec. 34, Twp. 6 N., R. 24 E.....	960	\$35.00	\$33,600.00
<p>This tract contains both the lower Hartshorne and the McAlester seams, under the same conditions as in tracts Nos. 11 and 12, the outcrop of the Hartshorne being on the southern boundary of the tract. A Government drill hole sunk on this tract in the NE4 of the SW4 of Section 28 showed at 56 ft., 3 in. of coal, at 74 ft., 6 in. of coal, and at 107 ft., 6 in. of coal with a dip of about 20 degrees, and which is believed to be the McAlester seam. After considering the conditions of the McAlester seam and having due regard for recent developments on the Hartshorne seam to the east, it is believed the entire area of this tract is underlaid with the lower Hartshorne seam in workable thickness, but the McAlester seam is not regarded as workable under present conditions. The St. Louis-San Francisco Railroad and the Chicago, Rock Island & Pacific Railroad cross this tract.</p>				
14	W2 of SW4 of Sec. 26; S2 of NE4 and SE4 and E2 of SW4 and S2 of NW4 of Sec. 27; NE4 and N2 of SE4 and NE4 of SW4 and E2 of NW4 of Sec. 34; NW4 of SW4 and W2 of NW4 of Sec. 32, Twp. 6 N., R. 24 E.....	960	\$35.00	\$33,600.00
<p>This tract contains both the lower Hartshorne and McAlester seams, under the same conditions as in tract 13. The St. Louis-San Francisco Railroad crosses this tract and the Chicago, Rock Island & Pacific Railroad crosses the northern boundary.</p>				
15	W2 of SW4 of Sec. 25; S2 of NE4 and SE4 and E2 of SW4 and S2 of NW4 of Sec. 26; NE4 and N2 of SE4 and NE4 of SW4 and E2 of NW4 of Sec. 35; NW4 of SW4 and W2 of NW4 of Sec. 36, Twp. 6 N., R. 24 E.....	960	\$50.00	\$48,000.00
<p>This tract contains both the lower Hartshorne and McAlester seams, under the same conditions as in tracts 13 and 14. The Chicago, Rock Island & Pacific Railroad and the St. Louis-San Francisco Railroad crosses the northern boundary.</p>				

Howe-Poteau District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
16	E2 of SE4 and SW4 of SE4 and E2 of NW4 of SE4 and SW4 of NW4 of SE4 and SE4 of SW4 and S2 of NE4 of SW4 and W2 of NW4 of NE4 of SW4 of Sec. 25; E2 and E2 of W2 of Sec. 36, Twp. 6 N., R. 24 E.; Lot 4 of Sec. 30; SE4 of SW4 and Lots 1, 2, 3 & 4 of Sec. 31, Twp. 6 N., R. 25 E. NW4 of NW4 of SE4 and NE4 of NE4 of SW4 and E2 of NW4 of NE4 of SW4 of Sec. 25, Twp. 6 N., R. 24 E.....	943.24	\$50.00	\$47,162.00
<p>This tract contains both the lower Hartshorne and McAlester seams, under the same conditions as in tracts 13, 14 and 15. The Chicago, Rock Island & Pacific Railroad and the St. Louis-San Francisco Railroad run through this tract.</p>				
17	S2 of SW4 of Sec. 29; and S2 of SE4 and SE of SW4 of Sec. 30; and E2 of NW4 and NE4 of SW4 and E2 of Sec. 31; and W2 of W2 and NW4 of NE4 of NW4 of Sec. 32, Twp. 6 N., R. 25 E.....	810	\$60.00	\$48,600.00
<p>This tract contains only the lower Hartshorne seam, which outcrops near the southern border and dips toward the north about 20 degrees decreasing toward the north. A Government drill hole sunk in approximately the NW4 of the SE4 of Section 31 to a total depth of 487 ft. showed at 401 ft., 1 ft. of coal, at 405 ft., 2 ft. of coal, and at 462 ft., 4 ft. 2 in. of coal. It is, therefore, estimated that this tract is underlaid with workable Hartshorne coal. The main line of the Chicago, Rock Island & Pacific Railroad crosses this tract.</p>				
18	SE4 of NW4 and SW4 of Sec. 28; and SE4; and NE 4 of SW4 of Sec. 29; NW4 of NW4 of Sec. 33. Twp. 6 N., R. 25 E.....	440	\$70.00	\$30,800.00
<p>This contract contains only the lower Hartshorne seam, under about the same conditions as in tract No. 17, although the seam is known to be in places 5 ft. thick as shown by mining operations on allotted land adjoining on the south, where the coal is clean and of good quality. The Chicago, Rock Island & Pacific Railroad crosses the southern boundary of this tract.</p>				
19	W2 of Sec. 27; S2 of NE4 and SE4 of Sec. 28; NE4 and E2 of NW4 of Sec. 33; NW4 of Sec. 34, Twp. 6 N., R. 25 E.....	960	\$60.00	\$57,600.00
<p>This tract contains only the lower Hartshorne seam, the outcrop being on adjoining leased land. It is estimated to have a thickness of 4 ft. 2 in. of good, clean coal, with a dip of about 15 degrees. The Chicago, Rock Island & Pacific Railroad runs one-fourth mile south of this tract.</p>				
20	SW4 of SW4 of Sec. 23; NW4 of NW4 and S2 of NW4 and SW4 of Sec. 26; E2 of Sec. 27; NE4 of Sec. 34; NW4 of Sec. 35, Twp. 6 N., R. 25 E.....	960	\$45.00	\$43,200.00
<p>This tract is believed to contain only the Hartshorne seam under the same conditions as in tract No. 19, although the seam is estimated to be about 3 ft. thick, as indicated by mining operations on adjoining leased land. The Chicago, Rock Island & Pacific Railroad crosses southeast corner of this tract.</p>				
21	SE4 and SE4 of SW4 of Sec. 23; SW4 and SE4 of NW4 of Sec. 24; NW4 of SE4 and N2 of SW4 and NW4 of Sec. 25; N2 of SE4 and NE4 and NE4 of NW4 of Sec. 26, Twp. 6 N., R. 25 E.....	960	\$10.00	\$9,600.00
<p>This tract is believed to contain only the lower Hartshorne seam, and from a study of the geological conditions it is estimated to lie at a depth of about 800 ft. dipping at a low angle toward the northwest under this tract. Under such circumstances and as no evidence is available indicating the presence, thick-</p>				

Howe-Poteau District, Unleased—Continued.

Howe-Poteau District, Unleased—Continued.

Tract No. on Map	Area	Per Acre	Appraisalment Total
ness, or dip of the coal under this tract other than surface geological indications, only a nominal value for any and all coal rights to this tract is indicated in the above appraisalment. The Chicago, Rock Island & Pacific Railroad and the Kansas City Southern Railroad cross this tract.			
22	S2 of SW4 and SW4 of SE4 of Sec. 25; S2 of SE4 of Sec. 26; NE4 and E2 of SE4 of Sec. 35; W2 of E2 and W2 of Sec. 36, Twp. 6 N., R. 25 E.....	920	\$40.0 \$36,800.00
This tract is believed to contain only the lower Hartshorne seam, estimated to lie at a depth of about 700 ft. beneath the southeast corner, dipping to the northeast at an unknown angle, the outcrop being on leased land adjoining on the south. In view of mining operations on adjoining leased land to the south where the Hartshorne seam is being mined at a thickness of between 3 and 4 ft. with a dip of about 10 degrees, it is considered that such seam extends under this tract. The main line of the Kansas City Southern and the Chicago, Rock Island & Pacific Railroads cross this tract.			
23	E2 of Sec. 24; NE4 of Sec. 25; Twp. 6 N., R. 25 E., Lot 4 of Sec. 18; E2 of SW4 and Lots 1, 2, 3 and 4 of Sec. 19; E2 of NW4 and Lots 1 and 2 of Sec. 30, Twp. 6 N., R. 26 E.....	943.76	\$10.00 \$9,437.60
It is believed that this tract contains only the lower Hartshorne seam, at a depth of 800 ft. at the southern boundary, dipping to the northwest and extending under this tract; however, considering the distance from mining operations or the evidence of the extent and probable depth of the coal under this tract, the remarks concerning tract 22 apply and only a nominal value has been placed on this tract. The Chicago, Rock Island & Pacific Railroad crosses the southeastern corner of this tract.			
24	E2 of SE4 of Sec. 25; E2 of E2 of Sec. 36, Twp. 6 N., R. 25 E.; SW4 of SE4 and E2 of SW4 and Lots 3 and 4 of Sec. 30; W2 of E2 and E2 of W2 and Lots 1, 2, 3 and 4 of Sec. 31, Twp. 6 N., R. 26 E.....	940.06	\$40.00 \$37,602.40
This tract is believed to contain the Hartshorne seam, estimated to lie from 800 to 1,000 ft. below the surface being near the surface in the southeast corner. This tract touches on the southwest corner, leased land on which the outcrop is located and where mining operations are underway, the seam being from 3 ft 6 in. to 4 ft. thick, with a dip of about 8 degrees, undoubtedly extending under this tract. The main line of the Kansas City Southern Railroad touches the southwest corner of this tract.			
25	W2 of SW4 of Sec. 17; SE4 and SE4 of SW4 of Sec. 18; E2 and E2 of NW4 of Sec. 19; SW4 and S2 of NW4 and NW4 of NW4 of Sec. 20, Twp. 6 N., R. 26 E.....	960	\$10.00 \$9,600.00
26	W2 of Sec. 29; NE4 and E2 of SE4 and NW4 of SE4 of Sec. 30; E2 of NE4 and NE4 of SE4 of Sec. 31; N2 of SW4 and NW4 of Sec. 32. Twp. 6 N., R. 26 E.....	960	\$10.00 \$9,600.00
27	W2 of W2 and SE4 of SW4 of Sec. 16; NE4 of NE4 and S2 of NE4 and SE4 and E2 of SW4 and SE4 of NW4 of Sec. 17; NE4 and NE4 of NW4 of Sec. 20; NW4 of Sec. 21, Twp. 6 N., R. 26 E.....	960	\$10.00 \$9,600.00
28	SE4 of Sec. 20; W2 of SW4 of Sec. 21; W2 of NW4 and SE4 of NW4 and NW4 of SW4 of Sec. 28; E2 of Sec. 29; NE4 and N2 of SE4 of Sec. 32, Twp. 6 N., R. 26 E.....	960	\$10.00 \$9,600.00

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
	NE4 of SE4 and S2 of SE4 and SE4 of SW4 of Sec. 9; SW4 of Sec. 10; E2 of W2 and NW4 of SW4 and W2 of NW4 of Sec. 15, NE4 and NE4 of SW4 and N2 of SE4 and E2 of NW4 of Sec. 16, Twp. 6 N., R. 26 E.....	960	\$10.00	\$9,600.00
	SW4 of SW4 of Sec. 15; S2 of SE4 of Sec. 16; E2 and E2 of SW4 of Sec. 21; W2 of Sec. 22; N2 of NE4 and NE4 of NW4 of Sec. 28, Twp. 6 N., R. 26 E.....	960	\$10.00	\$9,600.00
The same conditions relative to the extent of any coal appear to apply to each of these tracts. By reason of the fact that they are located at a considerable distance from any coal mining operations and from a study of geological reports they must contain, if any seam, the lower Hartshorne at a depth below a 1000 ft. at the shallowest point, therefore, only a nominal value for any and all coal rights to these tracts as indicated in the above schedule appears warranted.				
A Government diamond drill hole was sunk in 1908 to a depth of 996 ft. in the NW4 of the SE4 of Section 20 in tract 28, near the south boundary of tract 27 and showed at 172 ft., 1 in. of coal, at 577 ft., 3 in. of coal, at 988 ft., 1 ft. of coal, at 991 ft., 2 ft. of dark carbonaceous shale with numerous coal seams, and at 994 ft., 3 ft. of soft coal, with shale seams. Although this drill hole indicates the non-existence of workable coal at such point, it is believed insufficient data upon which to condemn the entire area of these tracts although there is meager evidence to the contrary other than geological reports which indicate that the lower Hartshorne seam probably extends under all these tracts at a depth of from 800 to 1000 ft. It may be that further prospecting in this area will disclose that some of these tracts, if not all, are underlain with workable coal and that they may be of greater value than above indicated.				
(Mr. William Cameron, United States Supervisor of Mines, in his report of 1908, considered for the reasons therein stated that these tracts had no value as coal property at that time and he eliminated them from his appraisalment, but stated they might prove to contain workable coal by further prospecting.)				
1	SE4 of Sec. 10; S2 of Sec. 11, N2 of Sec. 14; NE4 of Sec. 15, Twp. 6 N., R. 26 E.....	960	\$10.00	\$9,600.00
2	SW4 of Sec. 14; SE4 of Sec. 15; E2 of Sec. 22; W2 of Sec. 23, Twp. 6 N., R. 26 E.....	960	\$10.00	\$9,600.00
3	SW4 of Sec. 13; SE4 of Sec. 14; E2 of Sec. 23; W2 of Sec. 24, Twp. 6 N., R. 26 E.....	960	\$10.00	\$9,600.00
4	S2 of Sec. 12; N2 of Sec. 13, Twp. 6 N., R. 26 E.; SW4 of Sec. 7; NW4 of Sec. 18, Twp. 6 N., R. 27 E.....	960	\$10.00	\$9,600.00
5	SE4 of Sec. 13; E2 of Sec. 24, Twp. 6 N., R. 26 E.; SW4 of Sec. 18; W2 of Sec. 19, Twp. 6 N., R. 27 E.....	960	\$10.00	\$9,600.00
6	SE4 of Sec. 7; S2 of Sec. 8; N2 of Sec. 17; NE4 of Sec. 18, Twp. 6 N., R. 27 E.....	960	\$10.00	\$9,600.00
7	SW4 of Sec. 17; SE4 of Sec. 18; E2 of Sec. 19; W2 of Sec. 20, Twp. 6 N., R. 27 E.....	960	\$10.00	\$9,600.00
8	S2 of Sec. 9; W2 of SW4 and Lots 3 & 4 of Sec. 10; Lot 1 and NW4 of NW4 of Sec. 15; N2 of Sec. 16, Twp. 6 N., R. 27 E.....	829.66	\$10.00	\$8,296.60

Howe-Poteau District, Unleased—Continued.

Tract No. on Map	Area	Per Acre	Appraisalment Total
39 SW4 of Sec. 16; SE4 of Sec. 17; E2 of Sec. 20; W2 of Sec. 21, Twp. 6 N., R. 27 E.....	960	\$10.00	\$9,600.00
40 Lots 2, 3 & 4 and SW4 of NW4 and W2 of SW4 of Sec. 15; SE4 of Sec. 16; E2 of Sec. 21; Lots 1, 2, 3 and 4 and W2 of W2 of Sec. 22, Twp. 6 N., R. 27 E.....	884.30	\$10.00	\$8,843.00
<p>All of these tracts are supposed to be underlaid with the lower Hartshorne seam of coal at a depth at the shallowest point of from 800 to 1000 ft. with a probable thickness of about 3 ft. and an estimated dip of from 3 to 50 degrees. All of these tracts lie on the Howe a tictlinal fold, but on which there has been no mining operations or prospecting other than drill hole sunk some years ago by the Rock Island Coal Company in the NW4 of the SE4, Section 13 in tract 35, which showed the coal to be only 3 in. thick at a depth of 349 ft. coal being found below such depth, although it is not known how deep the drill was sunk.</p> <p>Under all the circumstances the remarks concerning 25 to 30 inclusive seem to apply to these tracts and for such reasons only a nominal value has been placed upon them any and all coal rights thereunder. Tracts 38 and 40 adjoin coal lands located in Arkansas where what is believed to be the same coal field occurs and is being extensively mined, the seam there being the lower Hartshorne, from 4 ft. to 5 ft. thick.</p> <p>The Chicago, Rock Island & Pacific Railroad extends along these tracts about the center from each to west.</p>			
41 SW4 of SE4 and SE4 of SW4 and Lot 4 of Sec. 18; SE4 of SE4 and W2 of E2 and E2 of W2 and Lots 1, 2, 3, and 4 of Sec. 19; NE4 and E2 of NW4 and Lots 1 and 2 of Sec. 30, Twp. 6 N., R. 24 E.....	954.37	\$30.00.	\$28,631.10
42 W2 of SE4 and S2 of SW4 of Sec. 17; SE4 of SE4 of Sec. 18; E2 of NE4 and NE4 of SE4 of Sec. 19; W2 of E2 and W2 of Sec. 20; NW4 of NE4 and NE4 of NW4 and W2 of NW4 of Sec. 29, Twp. 6 N., R. 24 E.....	960	\$30.00	\$28,800.00
43 SW4 of Sec. 16; E2 of SE4 of Sec. 17; E2 of E2 of Sec. 20; W2 of SE4 and W2 of Sec. 21; NW4 of NE4 and N2 of NW4 of Sec. 28; NE4 of NE4 of Sec. 29, Twp. 6 N., R. 24 E.....	960	\$30.00	\$28,800.00
44 SW4 of NW4 and W2 of SW4 of Sec. 15; SE4 of Sec. 16; NE4 and E2 of SE4 of Sec. 21; W2 of Sec. 22; N2 of NW4 of Sec. 27; NE4 of NE4 of Sec. 28, Twp. 6 N., R. 24 E.....	960	\$30.00	\$28,800.00
45 W2 of SW4 and SW4 of NW4 of Sec. 14; S2 of NE4 and SE4 and E2 of SW4 and SE4 of NW4 of Sec. 15; E2 of Sec. 22; W2 of W2 of Sec. 23, Twp. 6 N., R. 24 E.....	960	\$30.00	\$28,800.00
46 SW4 of SE4 of Sec. 11; E2 and E2 of W2 and NW4 of NW4 of Sec. 14; NE4 and N2 of SE4 and E2 of W2 of Sec. 23, Twp. 6 N., R. 24 E.....	960	\$30.00	\$28,800.00
47 SE4 of SE4 of Sec. 11; SW4 of Sec. 12; W2 of SE4 and SW4 of NE4 and W2 of Sec. 13; W2 of NE4 and N2 of SW4 and NW4 of Sec. 24, Twp. 6 N., R. 24 E.....	960	\$30.00	\$28,800.00

Howe-Poteau District, Unleased—Continued

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
8	S2 of NE4 and SE4 of Sec. 12; E2 of E2 and NW4 of NE4 of Sec. 13; E2 of NE4 of Sec. 24, Twp. 6 N., R. 24 E., Lot 4 of Sec. 7; E2 of W2 and Lots 1, 2, 3, and 4 of Sec. 18; NE4 of NW4 and Lot 1 of Sec. 19, Twp. 6 N., R. 25 E.....	939.20	\$30.00	\$28,176.00
9	NE4 of NE4 of Sec. 12, Twp. 6 N., R. 24, Lot 7 of Sec. 6; W2 of NE4 and SE4 and E2 of SW4 and E2 of NW4 and Lots 1, 2 and 3 of Sec. 7; W2 of NW4 of Sec. 17; NE4 and NE4 of SE4 and W2 of SE4 of Sec. 18, Twp. 6 N., R. 25 E.....	946.52	\$30.00	\$28,395.60
50	SW4 of SW4 of Sec. 5; SE4 and E2 of SW4 of Sec. 6; E2 of NE4 of Sec. 7; NW4 of NE4 and S2 of NE4 and N2 of SE4 and SW4 of SE4 and W2 of Sec. 8; NE4 of NW4 of Sec. 17, Twp. 6 N., R. 25 E.....	960	\$30.00	\$28,800.00
<p>These tracts contain the Cavinal seam which outcrops near the southern boundary of each tract, where it has a thickness of about 2 ft. 6 in. dipping to the north about 10 degrees. The coal at the northern boundary of each tract is estimated to lie at a depth of from 800 to 1200 ft. A Government drill hole sunk to a total depth of 434 ft. in the SW4 of the NW4 of Section 23 in tract 46, showed the Cavinal coal to be 3 ft. 2 in. thick at a depth of 380 ft. Considering the outcrop and the drill hole data, it is believed coal exists throughout the above ten tracts in workable quantity, with a dip averaging 10 degrees. Adjoining tract 49 on allotted land there was formerly an operating mine with a spur to it from the St. Louis-San Francisco Railroad, and adjoining tract 50 on allotted land there is now a small mine producing coal for farmer's use which shows the Cavinal seam 30 in. thick, of clean coal, with a dip to the northwest along the southeast boundaries of these tracts where the seam is of uniform thickness, about 2 ft. 6 in. and the dip from about 6 to 8 degrees north and northwest under each tract. The main line of the Rock Island extends along the southern boundary of tracts 41 to 45 inclusive and the St. Louis-San Francisco Railroad is within easy reach of tracts 46 to 50 inclusive.</p>				
51	S2 of SW4 and NW4 of SW4 of Sec. 4; S2 of NE4 and SE4 and E2 of SW4 and NW4 of SW4 and S2 of NW4 and Lots 3 and 4 of Sec. 5; Lots 1 and 2 and S2 of NE4 of Sec. 6; NE4 of NE4 of Sec. 8; N2 of NW4 of Sec. 9; Twp. 6 N., Range 25 E.....	923.93	\$30.00	\$27,717.90
52	Lot 4 of Sec. 3; Lots 1, 2, 3 and 4 and S2 of N2 and NW4 of SE4 and NE4 of SW4 of Sec. 4; Lots 1 and 2 of Sec. 5, Twp. 6 N., R. 25 E.; SE4 and S2 of SW4 and NE4 of SW4 of Sec. 32; S2 of SW4 and SW4 of SE4 of Sec. 33, Twp. 7 N., R. 25 E.....	928.84	\$30.00	\$27,865.20
67	SW4 of SW4 of Sec. 13; S2 of S2 of Sec. 14; S2 of SE4 of Sec. 15; NE4 of Sec. 22; N2 of Sec. 23; NW4 of Sec. 24, Twp. 7 N., R. 25 E.....	920	\$40.00	\$36,800.00
68	SE4 of Sec. 22; S2 of Sec. 23; W2 of SW4 of Sec. 24; NE4 and NE4 of SW4 and E2 of NW4 and NW4 of NW4 of Sec. 26; N2 of NE4 of Sec. 27, Twp. 7 N., R. 25 E.....	960	\$40.00	\$38,400.00
69	NW4 of SW4 and SW4 of NW4 of Sec. 26; N2 of NW4 and S2 of N2 and S2 of Sec. 27; SE4 and S2 of SW4 of Sec. 28; NW4 of NE4 and NE4 of NW4 of Sec. 34, Twp. 7 N., R. 25 E.....	960	\$40.00	\$38,400.00

Howe-Poteau District, Unleased—Continued

Tract No. on Map	DESCRIPTION	Area	Appraisalment	
			Per Acre	Total
70	NE4 of NE4 and S2 of NE4 of Sec. 32; N2 and N2 of S2 and SE4 of SE4 of Sec. 33; SW4 of NE4 and S2 of NW4 and NW4 of NW4 and SW4 of Sec. 34, Twp. 7 N., R. 25 E.....	960	\$35.00	\$33,600.00
<p>These tracts all contain the Cavinal seam which outcrops along their southeastern boundaries. Mining operations on allotted land adjoining tracts 68 and 69 show the Cavinal coal to about 30 in. thick, clean and of excellent quality. The St. Louis-San Francisco Railroad extends a short distance in front of the outcrop on all of these tracts.</p>				
53	SE4 of SE4 of Sec. 9; E2 of NE4 of Sec. 16, Twp. 7 N., R. 24 E.....	120	\$50.00	\$6,000.00
<p>This tract contains the Witteville seam, the outcrop of which crosses the northwestern corner and it is estimated that the thickness of the coal is about 4 ft. with a dip of about 9 degrees, extending under the entire tract. The Poteau Valley Railroad, which connects with the Kansas City Southern Railroad at Shady Point, runs within one-half mile of this tract to the east.</p>				
54	SW4 of Sec. 14; S2 of Sec. 15; NE4 and NE4 of SE4 and NE4 of NW4 of Sec. 22; N2 of SW4 and NW4 of Sec. 23, Twp. 7 N., R. 24 E.....	960	\$50.00	\$48,000.00
<p>This tract is believed to contain the Witteville seam, the outcrop of which being an adjoining leased land. Judging from the depth, thickness and dip of the seam in the Edwin-Harrison lease immediately north, the coal in this tract should be 4 ft. thick, with a dip of about 9 degrees. The Poteau Valley Railroad, which connects with the Kansas City Southern Railroad at Shady Point, runs 1 mile north of this tract.</p>				
55	S2 of Sec. 13; SE4 of Sec. 14; NE4 of Sec. 23; N2 of Sec. 24, Twp. 7 N., R. 24 E.....	960	\$50.00	\$48,000.00
<p>This tract is believed to contain the Witteville seam, outcrop of which being on adjoining leased land. It is estimated that this coal extends under the tract to the north under which it is being mined and where it is found to be of good quality and about 4 ft. thick with a dip of about 9 degrees. The Poteau Valley Railroad, which connects with the Kansas City Southern at Shady Point, runs 1½ miles north of this tract.</p>				
56	SE4 and S2 of SW4 of Sec. 23; S2 of Sec. 24; N2 of N2 of Sec. 25; N2 of NE4 and NE4 of NW4 of Sec. 26; Twp. 7 N., R. 25 E.; Lots 3 & 4 of Sec. 19; and Lot 1 of Sec. 30, Twp. 7 N., R. 25 E.....	954.94	\$30.00	\$28,648.20
<p>This tract is believed to contain the Witteville seam, the outcrop being on leased land adjacent to tract 55, at which place it is about 4 ft. thick, with a dip of about 9 degrees, and undoubtedly extends under this tract. This tract can be reached by a spur on leased lands to the north.</p>				
57	S2 of N2 and S2 of Sec. 25; NE4 of SE4 and S2 of NE4 of Sec. 26; NE4 and NE4 of SE4 and NE4 of NW4 of Sec. 36, Twp. 7 N., R. 24 E.; lot 2 of Sec. 30, Twp. 7 N., R. 25 E.....	877.71	\$50.00	\$43,885.50
<p>This tract is believed to contain the Witteville seam, the outcrop being located a short distance to the south and from which the coal can be mined. The thickness and dip are presumed to be about the same as elsewhere in this field; namely, about 4 ft. thick, and a dip of about 9 to 10 degrees. This tract can be reached by a spur on leased lands to the north.</p>				
58	SW4 of NE4 and SE4 and E2 of SW4 and SE4 of NW4 and Lots 1, 2, 3 & 4 of Sec. 7; NE4 and N2 of SE4 and NE4 of SW4 and E2 of NW4 and Lots 1, 2 & 3 of Sec. 18; Twp. 7 N., R. 25 E.....	950.90	\$50.00	\$47,545.00
<p>This tract contains the Witteville seam, the outcrop crossing the northern boundary, dipping to the south, the coal being about 4 ft. thick at an angle of 6 to 8 degrees. The Poteau Valley Railroad which connects with the Kansas City Southern at Shady Point, about 8 miles distance, crosses the northwest corner of this tract.</p>				

Howe-Poteau District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment	
			Per Acre	Total
59	S2 of SE4 and SE4 of SW4 and Lot 4 of Sec. 18; E2 and E2 of W2 and Lots 1 & 2 of Sec. 19; NE4 and E2 of NW4 of Sec. 30, Twp. 7 N., R. 25 E.....	955.32	\$25.00	\$23,883.00
<p>This tract is believed to contain the Witteville seam, the outcrop of which being located on tract 58 on the north and tract 60 on the south, this tract, therefore, being in the center of the basin at the deepest point of the seam which is probably from 600 to 800 ft. below the surface. For these reasons and owing to its inaccessibility a less value is placed on this tract than others in this district. This tract can be reached by a spur on leased land to the north.</p>				
60	SE4 and E2 of SW4 and Lots 3 & 4 of Sec. 30; E2 and NE4 of SW4 and E2 of NW4 and Lots 1, 2 & 3 of Sec. 31; and NW4 of SW4 and SW4 of NW4 of Sec. 32, Twp. 7 N., R. 25 E.....	945.89	\$50.00	\$47,194.50
<p>This tract contains the Witteville seam the outcrop crossing the southern part, dipping to the northwest from 8 to 10 degrees, being about 4 ft. thick. It doubtless extends under this tract. The St. Louis-San Francisco Railroad runs about 3 miles east of this tract.</p>				
61	S2 of N2 and S2 of Sec. 8; N2 and N2 of S2 of Sec. 17, Twp. 7 N., R. 25 E.....	960	\$50.00	\$48,000.00
<p>This tract contains the Witteville seam, the outcrop crossing the northern boundary, the dip being toward the south at an angle of 10 degrees, the seam being about 4 ft. thick, undoubtedly extending under this tract. The Poteau Valley Railroad, connecting with the Kansas City Southern Railroad at Shady Point, runs 1 mile north of this tract.</p>				
62	S2 of S2 of Sec. 17; Sec. 20; W2 of W2 of Sec. 21, Twp. 7 N., R. 25 E.....	960	\$25.00	\$24,000.00
<p>This tract is believed to contain the Witteville seam, about 4 ft. thick, with a dip of about 8 degrees. This tract lies below the top of the Cavinal mountain and can only be mined through adjoining tracts. The St. Louis-San Francisco Railroad runs 3 miles east of this tract.</p>				
63	N2 of SW4 and W2 of NW4 of Sec. 28; Sec. 29; NW4 of NE4 and SE4 of NW4 and N2 of NW4 of Sec. 32, Twp. 7 N., R. 25 E.....	960	\$50.00	\$48,000.00
<p>This tract contains the Witteville seam, the outcrop of which being located across the southeast side, where it is believed to be 4 ft. thick, with a dip of from 8 to 10 degrees, undoubtedly extending north under this tract. The St. Louis-San Francisco Railroad runs 2 miles east of this tract.</p>				
64	S2 of N2 and W2 of SE4 and SW4 of Sec. 9; and S2 of NW4 of Sec. 10; W2 of E2 and W2 of Sec. 16, Twp. 7 N., R. 25 E.....	960	\$50.00	\$48,000.00
<p>This tract contains the Witteville seam, the outcrop being located across the northern side, dipping to the south about 10 degrees, being about 4 ft. thick, undoubtedly extending south under this entire tract. The Ft. Smith, Poteau & Western Railroad runs 1 mile east of this tract.</p>				
65	E2 and E2 of W2 of Sec. 21; SW4 and S2 of NW4 of Sec. 22; NE4 and E2 of NW4 of Sec. 28, Twp. 7 N., R. 25 E.....	960	\$50.00	\$48,000.00
<p>This tract contains the Witteville coal seam, the outcropping being located on the southeastern boundary, being about 4 ft. thick, with a dip of from 8 to 10 degrees, undoubtedly extending under this entire tract. The Ft. Smith, Poteau & Western Railroad runs 1 mile northeast of this tract.</p>				

Howe-Poteau District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
66 P 1	W2 of SE4 of Sec. 10, Twp. 7 N., R. 25 E.	80	\$50.00	\$4,000.00
66 P 2	SW4 of NE4 and NW4 and S2 of S2 of Sec. 14; N2 of SE4 of Sec. 15, Twp. 7 N., R. 25 E.	440	\$50.00	\$22,000.00

This tract contains the Witteville seam, the outcrop being located about the center of the tract, dipping to the west at an angle of from 6 to 8 degrees and being about 4 ft. thick, leaving about half the acreage behind the crop. The Ft. Smith, Poteau & Western Railroad runs one-half mile south of this tract.

This tract is believed to contain the Cavinal seam, the outcrop being some distance east where it is from 2 ft. 4 in. to 2 ft. 6 in. thick, with a dip of about 8 degrees, but it undoubtedly extends under this entire tract. The St. Louis-San Francisco Railroad, and a branch line known as the Ft. Smith, Poteau & Western, extending from Poteau to Witteville, cross the tract.

There are two seams of coal in the McCurtain-Massey District; namely: The Jones Creek and the Panama.

The Jones Creek seam occurs in the Massey division and it is also called the Massey and blocker coal. It is believed to be the same seam as the Witteville in the Howe-Poteau District, however, it is harder, cleaner and fewer of partings. While it is not as high quality as the coals in the McAlester District, still it is very good coal.

The Panama seam occupies about the same geographical position as to the Hartshorn seams. It varies greatly in thickness and structure. In some places it is found to be 7 ft. thick, of clean coal, and within a short distance frequently divided into two benches of coal by a shale band from 6 in. to 2 ft. thick and generally in the center of the seam. In other places it is only 3 ft. 6 in. to 4 ft. thick with thin partings of bone coal, and at still other places it is 4 ft. thick, of clean coal. At McCurtain it is extensively faulty, which adds to the difficulty and expense of mining, also making it difficult of identification.

The Panama coal is excellent in quality, and soft in character as compared with the McAlester and Wilburton coals, also makes a good coke in bee-hive ovens, is splendid railroad steam fuel, and bunker coal, and is also a good blacksmith coal. It compares favorably in analysis with No. 3 Pocahontas, West Virginia, coal.

The Kansas City Southern, St. Louis-San Francisco, Midland Valley and the Ft. Smith & Western Railroads traverse this District as indicated in the description of each tract in the following schedule.

SCHEDULE OF APPRAISEMENT OF SEGREGATED UNLEASED COAL DEPOSITS.

McCurtain-Massey District, Unleased.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
1	S2 of SE4 of Sec. 22 and W2 of W2 of Sec. 26 and E2; E2 of W2; W2 of SW4; SW4 of NW4 of Sec. 27 and E2 of SE4; SW4 of SE4 of Sec. 28, Twp. 8 N., R. 21 E.	960	\$15.00	\$14,400.00

This tract is located at the extreme west end of the McCurtain District, and is believed to be overlaid with the Panama coal seam which outcrops a considerable distance east of leased land adjacent to tract 7 where it is from 4 to 5 ft. thick, with a dip of about 5 degrees. While the coal under this tract is estimated to be from 800 to 900 ft. below the surface at the southeast corner extending northwest at an angle of about 5 degrees, by reason of its thickness and good quality it is believed it will prove workable. The Ft. Smith & Western Railroad runs three-fourths mile south of this tract.

McCurtain-Murray District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
2	E2; E2 of W2 of Sec. 33 and W2 of E2; W2 of Sec. 34, Twp. 8 N., R. 21 E.	960	\$15.00	\$14,400.00
3	W2 of E2; W2 of Sec. 25 and E2; E2 of W2 of Sec. 26, Twp. 8 N., R. 21 E.	960	\$35.00	\$33,600.00
4	E2 of E2 of Sec. 34 and all of Sec. 35 and W2 of W2 of Sec. 36, Twp. 8 N., R. 21 E.	960	\$35.00	\$33,600.00
5	SW4 of SE4; SE4 of SW4 of Sec. 13 and S2 of NE4; S2 of Sec. 23 and W2 of E2; W2 of Sec. 24, Twp. 8 N., R. 21 E.	960	\$35.00	\$33,600.00
6	E2 of SE4 of Sec. 25 and NE4; N2 of SE4; E2 of W2 of Sec. 36, Twp. 8 N., R. 21 E. and W2 of SE4; E2 of SW4; Lots 3 and 4 of Sec. 30 and W2 of NE4; E2 of NW4; Lots 1 and 2 of Sec. 31, Twp. 8 N., R. 22 E.	988.55	\$50.00	\$46,927.50
7	E2 of E2 of Sec. 24 and E2 of NE4 of Sec. 25, Twp. 8 N., R. 21 E. and S2 of NE4; SE4 of NE4; SE4; E2 of SW4; Lots 2, 3 and 4 of Sec. 19 and W2 of NE4; E2 of NW4; Lots 1 and 2 of Sec. 30, Twp. 8 N., R. 22 E.	930.17	\$55.00	\$51,159.35
8	E2 of SE4 of Sec. 13, Twp. 8 N., R. 21 E., and N2 of SW4; NW4 of Sec. 17 and E2 of E2; SW4 of NE4; W2 of SE4; E2 of SW4; SE4 of NW4; Lots 3 and 4 of Sec. 18 and N2 of NE4; NE4 of NW4; Lot 1 of Sec. 19, Twp. 8 N., R. 22 E.	939.47	\$50.00	\$46,973.50

The statements concerning tract 1 apply to this tract, the coal conditions being considered the same. The Ft. Smith & Western Railroad crosses the southeastern corner of the tract.

This tract is believed to contain the Panama seam, and the statements concerning tracts 2 and 3 apply to this tract. Except that the coal is estimated to be about 700 to 800 ft. below the surface at the southeast corner near the railroad, dipping northwest at an angle of from 5 to 8 degrees. The Ft. Smith & Western Railroad crosses the southeastern corner of this tract.

The coal seam under this tract is estimated to occur in the same manner as indicated in tract 3. The Ft. Smith & Western Railroad crosses this tract.

This tract is considered to contain the Panama seam as indicated by the outcrop to the east on leased land adjoining tract 7 where the coal is about 4 to 5 ft. thick, dipping about 5 degrees to the northwest. The coal under this tract is estimated to be about 600 ft. below the surface at the southeast corner extending northwest at an angle of 8 degrees. The Ft. Smith & Western Railroad is near the southeast corner of this tract.

This tract is believed to contain the Panama seam, under the same conditions as in tract 6, except that the coal is estimated to lie from 500 to 700 ft. below the surface along the north central part of the tract, extending therefrom toward the northwest at a low angle. The Ft. Smith & Western Railroad crosses the northwest corner of this tract.

This tract is believed to contain the Panama seam under the same conditions as in tract 7, except that the seam is estimated to be about 550 ft. below the surface at the southeast corner, extending northwest at an angle of from 5 to 8 degrees. This tract adjoins leased land on the east. The Ft. Smith & Western Railroad runs 1 mile south of this tract.

The coal under this tract is considered to be under similar conditions as in tract 7, except that the seam is estimated to be about 550 ft. below the surface at the southeast corner, extending northwest at an angle of from 5 to 8 degrees. This tract adjoins leased land on the east. The Ft. Smith & Western Railroad runs 1 mile south of this tract.

McCurtain-Murray District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
9	S2 of N2; S2 of Sec. 29 and E2 of E2 of Sec. 30 and E2 of NE4 and N2 of N2; S2 of NW4 of Sec. 32, Twp. 8 N., R. 22 E.....	960	\$50.00	\$48,000
<p>The coal in this tract is considered the same as in tract 6, except that the seam is estimated to be from 300 to 500 ft. below the surface in the northwest corner, dipping south at an angle of about 10 to 15 degrees. A drill hole sunk by the San Bois Coal Company in NW4 of the NE4 of Section 30 showed the coal to be 3 ft. 6 in. thick, at a depth of 440 ft. Leased land adjoins this tract on the north and the main line of the Ft. Smith & Western Railroad crosses the northwest corner.</p>				
10	NE4 of SE4; S2 of SE4; SE4 of SW4 of Sec. 8 and SW4 of NE4; S2; SE4 of NW4 of Sec. 9 and NW4 of Sec. 16 and NE4; N2 of SE4 of Sec. 17, Twp. 8 N., R. 22 E.....	960	\$25.00	\$24,000
<p>This tract contains the Panama seam, the outcrop being on adjoining leased land where it is from 4 to 5 ft. thick with a dip of about 5 degrees. It is estimated that the coal in this tract is below the surface about 500 ft. in the southeast part dipping northwest about 10 degrees. A drill hole sunk by the San Bois Coal Company in the SW4 of the NE4 of Section 17 showed the coal to be 2 ft. 3 in. thick, at a depth of 435 ft. However, considering the fact that this tract joins leased land on the south on which there are operating mines it is believed it should be regarded as containing coal of workable thickness. The Ft. Smith & Western Railroad runs 1 mile south of this tract.</p>				
11	S2 of Sec. 26 and S2 of SE4; SW4 of Sec. 27 and S 2 of Sec. 28 and N2 of NW4 of Sec. 33, Twp. 8 N., R. 22 E.....	960	\$50.00	\$48,000
<p>This tract is believed to contain the Panama seam, the outcrop of which being located on adjoining leased land to the north, where the seam is about 4 ft. thick, with a dip of about 15 degrees. It is estimated that the seam under this tract lies from 800 to 1000 ft. below the surface at the northwestern boundary and extends southeast under this tract about 15 degrees. A drill hole sunk by the San Bois Coal Company in about the NW4 of the NE4 of Section 28 shows about 3 ft. 7 in. of coal, although the depth is not given. The Ft. Smith & Western Railroad runs three-fourths mile north of this tract.</p>				
12	SE4 of NE4 of Sec. 9 and all of Sec. 10 and SW4; S2 of NW4; NW4 of NW4 of Sec. 11, Twp. 8 N., R. 22 E.....	960	\$45.00	\$43,200
<p>The coal under this tract is believed to occur under the same conditions as in tract 11 and is estimated to have a thickness of 3 ft. 8 in. and a dip of from 5 to 10 degrees. A prospect hole sunk by the San Bois Coal Company in about the SW4 of the SW4 of Section 10 in this tract showed the coal at 359 ft. to be 3 ft. 9 in. thick. Another hole sunk by the same Company in this tract at about the SW4 of the SE4 of Section 10 showed the coal to be 3 ft. 9 in. thick, at a depth of 502 ft. This tract adjoins leased land on the south on which outcrop is located. The Ft. Smith & Western Railroad runs 1½ miles south of this tract.</p>				
13	NE4 of NW4; E2 of Sec. 11 and W2 of SE4; W2 of Sec. 12 and N2 of NW4 of Sec. 13 and N2 of NE4; SW4 of NE4 of Sec. 14, Twp. 8 N., R. 22 E.....	960	\$45.00	\$43,200
<p>The coal outcrop crosses the southeast corner of this tract, the seam dipping toward the northwest about 15 degrees, being about 3 ft. 5 in. thick. The Ft. Smith & Western Railroad runs 1½ miles south of this tract.</p>				
14	NE4; E2 of SE4 of Sec. 12, Twp. 8 N., R. 22 E., and E2; E2 of SW4; SE4 of NW4; Lots 2, 3 and 4 of Sec. 7 and NW4 of SW4; W2 of NW4 of Sec. 8, Twp. 8 N., R. 23 E.....	900.62	\$45.00	\$40,527
<p>The outcrop of the Panama seam crosses the southern boundary of this tract, the seam dipping toward the north about 15 degrees and being about 3 ft. 5 in. thick. The Ft. Smith & Western Railroad runs about 1½ miles south of this tract.</p>				

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
15	SE4 of NE4; SE4; S2 of SW4; NE4 of SW4 of Sec. 4 and S2 of SE4 of Sec. 5 and NE4; NW4 of SE4; NE4 of SW4; E2 of NW4 of Sec. 8 and N2 of N2; S2 of NW4 of Sec. 9, Twp. 8 N., R. 23 E.....	960	\$40.00	\$38,400.00
<p>This tract contains the Panama seam, outcropping along the southern boundary where it is believed to dip from 15 to 20 degrees. Some of the best coal in the McCurtain District is on the southern crop of the Panama seam immediately south of this tract. The Ft. Smith & Western Railroad runs 2 miles south of this tract.</p>				
16	N2 of SW4; S2 of NW4; Lots 3 and 4 of Sec. 2 and Lots 1, 2 and 3; S2 of N2; N2 of S2; SW4 of SE4; S2 of SW4 of Sec. 3, Twp. 8 N., R. 23 E. and SE4 of SE4 of Sec. 34 and W2 of SW4; SW4 of NW4 of Sec. 35, Twp. 9 N., R. 23 E.....	918.98	\$40.00	\$36,759.20
<p>The coal on this tract is estimated to occur under the same conditions as in tracts 14 and 15. The Ft. Smith & Western Railroad runs 2 miles south of this tract.</p>				
17	NE4 of SE4 of Sec. 24, Twp. 8 N., R. 22 E., and S2 of SE4; SE4 of SW4 of Sec. 19, and E2; E2 of W2; Lots 1, 2, 3, and 4 of Sec. 30, Twp. 8 N., R. 23 E.....	777.84	\$60.00	\$46,670.40
<p>The outcrop crosses the northern part of this tract where it is about 5 ft. thick, the seam varying from 15 to 22 degrees throughout the tract. A drill hole sunk by the San Bois Coal Company in about the SE4 of the SE4 of Section 19 showed 2 ft. of coal, 11 in. of dirt band, and 3 ft. of coal. Recent developments on allotted land adjoining this tract on the north show the coal to be 5 ft. thick, with a dip of about 10 degrees and of good quality. The Ft. Smith & Western Railroad is near this tract.</p>				
18	S2 of S2 of Sec. 20 and all of Sec. 29, Twp. 8 N., R. 23 E.....	800	\$60.00	\$48,000.00
<p>The coal on this tract occurs under about the same conditions as in tract 17. Prospecting in the northwest corner of the tract shows the coal to be about 4 ft. thick. A drill hole sunk in about the SE4 of the SW4 of Section 20 showed at a depth of 435 ft., 3 ft. of coal, 6 in. of slate and 6 ft. 10 in. of coal. Developments on allotted land adjoining this tract lead to the conclusion that at least 5 ft. of Panama coal will be found under conditions permitting cheap mining. The Ft. Smith & Western Railroad is located near the outcrop of this tract.</p>				
19	E2 of NE4; SW4; N2 of SE4; SW4 of SE4 of Sec. 22 and W2 of NE4; W2 and NW4 of SE4 of Sec. 27, Twp. 8 N., R. 23 E.....	800	\$65.00	\$52,000.00
<p>The outcrop on this tract is located along the northern boundary and it shows from 5 ft. to 7 ft. of Panama coal and a dip of about 16 degrees with a parting of shale varying from 1 ft. to 1 ft. 6 in. in thickness. Developments on allotted land immediately adjacent to this tract indicate that this tract doubtless contains some of the best coal found in the segregated field, however, recent developments show that the seam contains some irregularities which detract from the value of the coal and add to the difficulties and expense of mining, all of which has been considered in the appraisalment. The Ft. Smith & Western Railroad extends along the northeastern boundary of this tract.</p>				
20	W2 of SW4 of SE4; S2 of SW4 of Sec. 14 and SE4 of SE4 of Sec. 22 and W2 of W2 of E2; W2 of Sec. 23 and W2 of NW4 of NE4; SW4 of NE4; N2 of SW4; NW4 of Sec. 26 and E2 of NE4; NE4 of SE4 of Sec. 27, Twp. 8 N., R. 23 E.....	960	\$65.00	\$62,400.00
<p>The coal in this tract lies under about the same structural conditions as in tract 19, except that the dip varies from about 15 to 18 degrees. A prospect hole on the crop in the</p>				

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisement Total
	SW4 of the SW4 of Section 14 shows the coal to be 6 ft. thick, with a dip of about 20 degrees. Developments on land adjacent to tract 19 indicate the same conditions exist on tract 20. The Ft. Smith & Western Railroad crosses the northern boundary of this tract.			
21	SW4 of Sec. 13 and SE4 of SE4; E2 of SW4 of SE4 of Sec. 14 and E2 of E2; E2 of W2 of E2 of Sec. 23 and W2 of Sec. 24 and W2 of NW4 of Sec. 25 and E2 of NW4 of NE4; E2 of NE4 of Sec. 26, Twp. 8 N., R. 23 E.....	960	\$70.00	\$67,200
	It is believed the coal on this tract occurs under about the same conditions as in tract 20 except that the seam is from 6 to 7 ft. thick, and dips from 15 to 20 degrees as indicated by prospect hole. Recent developments to the east and west of this tract on allotted land lead to the conclusion that this entire tract can be regarded as being underlaid with workable coal of good thickness. The Ft. Smith & Western Railroad is adjacent to this tract.			
22	SE4 of Sec. 13 and E2 of Sec. 24 and NE4 of NW4; N2 of NE4 of Sec. 25, Twp. 8 N., R. 23 E. and Lots 3 and 4 of Sec. 18 and E2 of SW4; Lots 1, 2, 3 & 4 of Sec. 19 and NE4 of NW4; Lot 1 of Sec. 30, Twp. 8 N., R. 24 E.....	958.04	\$50.00	\$47,902
	The crop of the seam crosses the extreme north end of this tract. A prospect hole at the crop about the center of Section 13 showed the coal to be about 4 ft. thick, with a dip of about 25 degrees. Recent developments on allotted land immediately adjacent to tract on the north show workable coal lying at a relatively moderate dip and lead to the conclusion that the entire tract can be considered to be underlaid with workable coal of good quality. The Ft. Smith & Western Railroad is a short distance north of this tract.			
23	SE4 of NE4 of Sec. 13, Twp. 8 N., R. 23 E. and SE4 of SE4 of Sec. 7 and W2 of SW4 of Sec. 17 and E2; E2 of W2; Lots 1 & 2 of Sec. 18 and N2 of NE4; SW4 of NE4; E2 of NW4 of Sec. 19 and NW 4 of NW4 of Sec. 20, Twp. 8 N., R. 24 E.....	947.49	\$50.00	\$47,374
	The outcrop of the Panama seam crosses the northern boundary of this tract dipping to the southeast between 20 and 30 degrees. A crop prospect hole sunk in Section 7 showed the coal to be 5 ft. and another hole sunk in Section 13 showed a thickness of 4 ft. The main line of the Ft. Smith & Western Railroad crosses the northwest corner of this tract.			
24	S2 of SW4 of Sec. 8 and W2 of Sec. 16 and E2; E2 of W2; W2 of NW4 of Sec. 17, Twp. 8 N., R. 24 E.....	960	\$5.00	\$48,000
	The Panama coal on this tract outcrops in the northwest portion and dips to the southeast about 15 degrees. A crop prospect hole sunk in the SW4 of the SE4 of Section 7 shows the coal to be 4 ft. thick, with a dip varying from 15 to 20 degrees. Portions of this crop joins leased land on the northeast, where there are operating mines and where the coal contains some irregularities which add to the difficulties and cost of mining and detract somewhat from the value of this tract. The Ft. Smith & Western Railroad is adjacent to this tract.			
25	SE4; SE4 of NE4 of Sec. 19 and E2; SW4; S2 of NW4; NE4 of NW4 of Sec. 20 and W2 of NW4 of Sec. 21 and N2 of NE4 of Sec. 30, Twp. 8 N., R. 24 E.....	960	\$30.00	\$28,800
	This tract is believed to be underlaid with the Panama seam about 5 ft. thick, with a dip of from 15 to 20 degrees. The outcrop of which is on tract 26, but it is considered that coal in this tract is accessible in the northeast corner at a depth of a few hundred feet. The Midland Valley Railroad runs one-half mile east of this tract.			

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisement Total
26	S2 of SE4 of Sec. 16 and E2; E2 of W2; W2 of SW4 of Sec. 21 and W2 of Sec. 22, Twp. 8 N., R. 24 E.....	960	\$20.00	\$19,200.00
	The outcrop crosses the northern border of this tract with a dip to the south of about 15 degrees. A Government drill hole sunk in 1908 in the SE4 of the NW4 of Section 22 to a total depth of 216 ft. showed at a depth of 152 ft., 4 ft. of coal and shale mixed to such an extent that it was not considered workable at that time. However, in view of recent developments to the east on tract 33 it is believed that this tract should be regarded as containing workable coal. The Midland Valley Railroad is within easy access to this tract.			
27	NE4 of SE4 of Sec. 3, Twp. 8 N., R. 18 E.....	40	\$65.00	\$2,600.00
	The seam outcrops along the northwestern boundary of this tract and dips to the southeast from 20 to 30 degrees. Developments on adjoining leased land show the Panama seam to have a thickness of from 5 to 6 ft. It is believed that coal of good quality and of workable thickness will be found to underlie this tract. The Ft. Smith & Western Railroad runs about one-half mile south of this tract.			
28	S2 of SW4; SW4 of SE4 of Sec. 2 and SE4 of NE4; SW4 of SE4; E2 of SE4 of Sec. 10 and W2 of NE4; NW4; N2 of SW4 of Sec. 11, Twp. 8 N., R. 24 E.....	600	\$50.00	\$30,000.00
	The outcrop crosses the southeast and southern borders dipping to the northwest 10 to 15 degrees with a thickness of about 4 ft. of Panama coal. The main line of the Ft. Smith & Western Railroad crosses this tract.			
29	E2 of Sec. 22 and E2 of SE4; W2 of E2 of Sec. 23 and N2 of NE4 of Sec. 26, Twp. 8 N., R. 24 E.....	960	\$30.00	\$27,681.20
	The seam outcrops on the north side of this tract, dipping toward the south about 20 degrees, being about 4 ft. thick. The Midland Valley Railroad is located near this tract.			
30	Lots 3 and 4; S2 of NW4; SW4 of Sec. 1 and Lots 1, 2, 3 and 4; S2 of N2; N2 of S2; SE4 of SE4 of Sec. 2 and E2 NE4 of Sec. 11 and N2 of NW4 of Sec. 12, Twp. 8 N., R. 24 E.....	922.71	\$30.00	\$27,681.20
	The outcrop of the Panama seam crosses the southeast corner of this tract dipping towards the northwest about 20 degrees and estimated to be about 4 ft. 6 in. to 5 ft. thick. A diamond drill hole sunk by the Government in 1908 in the NE4 of the SE4 of Section 1 in tract 32 to a total depth of 418 ft. showed no coal except 3 in. at 125 ft. But in view of the result of mining operations on leased land adjacent to this tract it is not considered that the failure to penetrate any coal by the drill at the point mentioned condemns this tract, therefore, the coal rights have been appraised as indicated in the above schedule. The Ft. Smith & Western Railroad crosses the southern boundary of this tract.			
31	S2 of S2 of Sec. 13 and E2 of NE4 of Sec. 23 and NE4; N2 of SE4; SW4 of SE4; W2 of Sec. 24 and NW4 of NE4; N2 of NWW4 of Sec. 25, Twp. 8 N., R. 24 E.....	960	\$43.00	\$43,200.00
	The outcrop of the Panama seam crosses the northern boundary and dipping toward the south about 15 degrees. The coal occurs under about the same conditions as in tract 29. A Government drill hole sunk in tract 33 near the center of Section 19 showed the coal to be 3 ft. 6 in. thick, at a depth of 204 ft., with a dip of about 15 degrees and which indicates good coal in this tract. The Midland Valley Railroad extends along the outcrop near this tract.			
32	Lots 1 and 2; S2 of NE4; SE4 of Sec. 1, Twp. 8 N., R. 24 E. and Lots 3, 4, 5, 6 and 7; E2 of SW4; SE4 of NW4 of Sec. 6, Twp. 8 N., R. 25 E. and S2 of Sec. 36, Twp. 9 N., R. 24 E.....	898.55	\$15.00	\$13,478.25
	The coal in this tract occurs under about the same conditions as in tract 30. The outcrop crosses the southern boundary of this tract. On the adjoining tract, 30, a drill hole shows no coal, but a study of the conditions under which the coal is found on other adjacent tracts			

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
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lead to the conclusion that this tract may be considered as containing workable coal under present conditions, however, only a nominal value has been placed thereon. The main line of the Ft. Smith & Western Railroad crosses within a short distance of the southern boundary of this tract.

33	SE4 of SE4 of Sec. 24 and NE4 of NE4 of Sec. 25, Twp. 8 N., R. 24 E. and Lot 4 and SE4 of SW4 and S2 of SE4 and NE4 of SE4 of Sec. 19 and Lot 1 and NE4 of NW4 and N2 of NE4 of Sec. 30, Twp. 8 N., R. 25 E.	437.34	\$50.00	\$21,867
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A government diamond drill hole sunk near the center of Section 19 to a depth of 110 ft. showed 3 ft. 6 in. of coal at 204 ft. Recent developments on allotted land adjacent to this tract also show coal of good thickness and excellent quality and such coal undoubtedly underlies this tract. The Midland Valley Railroad runs about one-half mile north of the tract.

34	Lot 4; SW4 of NW4; NW4 of SW4 of Sec. 5 and Lots 1 and 2; S2 of NE4; N2 of SE4; SW4 of SE4 of Sec. 6, Twp. 8 N., R. 25 E., and Lot 4; of Sec. 30 and W2 of E2; E2 of W2; Lots 1, 2, 3 and 4 of Sec. 31, Twp. 9 N., R. 25 E.	873.27	\$15.00	\$13,099
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The coal on this tract occurs under practically the same conditions as in tract 32, therefore, only a nominal value has been placed on the coal rights in this tract. A Government diamond drill sunk in tract 32 showed the coal to be only 3 in. thick at a depth of 152 ft., but considering the developments on other adjacent tracts it is believed coal underlies this tract in workable quantities under conditions now prevailing; furthermore, it is not believed a single drill hole on adjoining land should condemn this tract. The main line of the Ft. Smith & Western Railroad is within a very short distance of the southern border of this tract. It has been so valued accordingly as containing workable coal and so valued.

35	SW4 of Sec. 20 and N2 of N2; SE4 of NE4 of Sec. 28 and N2 of N2 of Sec. 29, Twp. 8 N., R. 25 E.	520	\$30.00	\$15,600
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The Panama seam outcrops along the northern boundary of section 20 and dips to the south about 15 degrees with a thickness of about 3 ft. 6 in. Leased land adjoins this tract to the east and mines were formerly worked thereon, operations being suspended on account of high water flooding mines, where there was found to be coal in workable thickness and of excellent quality and it is, therefore believed that this tract can be regarded as containing desirable coal. The Midland Valley Railroad extends along the northern boundary of Section 20 of this tract, and the Kansas City Southern Railroad is also within a short distance and has switch connections to this tract.

36	Lots 1, 2 & 3; S2 of NE4; N2 of SE4; SE4 of SE4; NE4 of SW4; SE4 of NW4 of Sec. 5, Twp. 8 N., R. 25 E. and E2 of E2 of Sec. 31 and W2 of Sec. 32, Twp. 9 N., R. 25 E.	836.31	\$15.00	\$12,544
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The coal here occurs under about the same conditions as in tract 34, the outcrop crosses the southern boundary of the tract. The thickness of the crop on the adjoining tract, in a prospect opening, shows 3 ft. 10 in. of coal which doubtless is contained in this tract although there is no known crop opening. Therefore, a nominal value is placed on the coal rights in this tract. The main line of the Ft. Smith & Western Railroad is about one-half mile from the southeast corner of the tract.

37	Lots 1, 2, 3 & 4; S2 of N2; S2 of Sec. 4 and N2 of N2; S2 of NE4 of Sec. 9, Twp. 8 N., R. 25 E.	822.12	\$20.00	\$16,442
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The outcrop of the Panama seam crosses the southern boundary of this tract and shows by crop prospect hole to be 3 ft. 10 in. thick, dipping to the north from 13 to 25 degrees. The Ft. Smith & Western Railroad crosses the southern boundary and the Kansas City Southern Railroad crosses the extreme southeastern corner of the tract.

McCurtain-Massey District, Unleased—Continued.

Tract No. Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
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S2 of N2; S2 of Sec. 22 and N2; NE4 of SE4 of Sec. 27, Twp. 8 N., R. 25 E.	840	\$40.00	\$33,600.00
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The outcrop of the Panama seam crosses the north boundary, the coal seam dipping toward the south about 15 degrees with an estimated thickness of about 3 ft. 6 in. This tract adjoins leased land on the west on which coal has been proven to occur in workable quantities. It is believed that under the present conditions the entire tract can be regarded as underlain with coal, although it is realized that the tract will have to be carefully mined in order to avoid danger of overflow from surface water, from the Poteau river and Brazil Creek, both of which cross this tract. The main line of the Kansas City Southern Railroad and the Midland Valley Railroad also touches the northern boundary.

Lots 1, 2, 3 & 4; S2 of N2; S2 of Sec. 3 and N2 of Sec. 10, Twp. 8 N., R. 25 E.	901.72	\$20.00	\$18,034.40
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The outcrop of the Panama seam crosses the southern boundary of this tract. A Government diamond drill hole sunk with a diamond drill to a total depth of 467 ft. in the NW4 of the SE4 in tract 43, Section 1, showed the coal to have a thickness of only 3 in. at a depth of 446 ft. However, in view of the distance of such hole from this tract and considering the prospect hold on the adjoining tract which shows 3 ft. 10 in. of coal, it is believed that such coal underlies this tract. The main line of the Ft. Smith & Western Railroad and the Kansas City Southern Railroad cross this tract.

S2 of Sec. 23 and N2; N2 of S2; S2 of SE4; SE4 of SW4 of Sec. 26, Twp. 8 N., R. 25 E.	920	\$50.00	\$46,000.00
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The outcrop crosses the northern boundary, the coal being 3 ft. 8 in. thick, with a dip of about 15 degrees. A Government diamond drill hole was sunk in this tract in the SW4 of Section 23 to a total depth of 273 ft., the coal being found at 238 ft. with a thickness of 1 ft. 8 in. The main line of the Midland Valley Railroad crosses the north boundary of this tract.

Lots 1, 2, 3 & 4; S2 of N2; S2 of Sec. 2 and N2 of N2; S2 of NW4 of Sec. 11, Twp. 8 N., R. 25 E.	821.12	\$15.00	\$12,316.80
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The outcrop of the Panama seam crosses the southern boundary and it is believed the coal underlies this tract in about the same conditions as in tracts 37 and 39, notwithstanding a government diamond drill hole sunk to a depth of 467 ft. in the NW4 of the SE4 of Section 11 in tract 43 which showed the coal to have a thickness of only 3 in. at a depth of 446 ft. The outcrop on 37 shows 3 ft. 10 in. of coal. The Poteau River flows across the southern end of this tract, and cuts across the coal outcrop, which fact will add to the difficulty of mining, and considering all of these circumstances a nominal value has been placed on the coal rights in this tract. The Kansas City Southern Railroad is one-half mile to the west.

S2 of S2 of Sec. 24 and all of Sec. 25 and N2 of N2 of Sec. 36, Twp. 8 N., R. 25 E.	960	\$50.00	\$48,000.00
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It is believed the coal under this tract will occur under about the same conditions of structure as in tracts 38 and 40. The outcrop of the Panama seam extends along the northern boundary with an estimated thickness of 3 ft. 8 in. dipping south across this tract at an angle of about 15 degrees as indicated by the drill on tract 40. Recent developments on allotted land adjoining this tract also lead to the conclusion that this tract will be found to be underlain by Panama coal about 4 ft. thick and of good quality. The main line of the Midland Valley Railroad extends parallel to the northern boundary about three-fourths mile distant.

Lots 1, 2, 3, & 4; S2 of N2; S2 of Sec. 1 and N2 of N2 of Sec. 12, Twp. 8 N., R. 25 E. and Lots 4, 5, 6 & 7 of Sec. 6 and Lot 1 of Sec. 7, Twp. 8 N., R. 26 E.	941.56	\$15.00	\$14,122.40
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It is believed that the coal in this tract will be found to occur under practically the same conditions as in tracts 37, 39 and 41. However, the Government sunk a diamond drill in 1908 to a depth of 467 ft. in the NW4 of SE4 of Section 1 in this tract and penetrated only 3 in. of coal at a depth of 446 ft. Although this drill hole shows no coal, such fact does not appear to warrant condemning the entire tract, especially as coal 4 ft. 8 in. thick was found in tract 71 and 3 ft. 10 in. in tract 37, as well as coal of good thickness and quality on the

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
	southern crop on tracts 42, 44 and 46. Therefore, a nominal value for the coal rights in this tract is indicated in the appraisalment. The Kansas City Southern Railroad runs 1 1/2 miles west of this tract.			
44	Lots 3 & 4; E2 of SW4; SE4 of Sec. 30 and NW4 of NE4; NE4 of NW4; Lot 1 of Sec. 31, Twp. 8 N., R. 26 E.....	446.28	\$50.00	\$22,314.00
	The outcrop of the Panama seam is near the northern boundary, the coal dipping to the south about 15 degrees with a thickness of about 4 ft. Recent developments on allotted land adjoining this tract on the north show 4 ft. of good workable Panama coal. A spur of the Midland Valley Railroad is adjacent to this tract.			
45	SW4 of NE4; NW4 of SE4; NE4 of SW4; W2 of SW4; S2 of NW4; Lots 3 & 4 of Sec. 5 and Lots 1, 2 & 3; S2 of NE4; SE4; E2 of SW4; SE4 of NW4 of Sec. 6 and NW4 of NE4; NE4 of NW4 of Sec. 7, Twp. 8 N., R. 26 E. and S2 of SE4 of Sec. 31, Twp. 9 N., R. 26 E.....	930.03	\$30.00	\$27,900.90
	The outcrop of the Panama seam crosses the southern border, dipping towards the northwest. Although the drill hole on tract 43 does not show coal at this point, the drill on tract 71 which adjoins this tract penetrated 4 ft. 8 in. of coal at 87 ft. Under all these circumstances it is believed this tract is underlaid with coal of good quality and thickness. The Kansas City Southern Railroad runs about 4 miles northwest of this tract.			
46	N2 of SW4 and SE4 of SW4 of Sec. 20 and NE4; E2 of NW4; SE4 of SW4 of NW4; SW4; N2 of SE4 of Sec. 29, Twp. 8 N., R. 26 E.....	610	\$50.00	\$30,500.00
	The crop of the Panama seam crosses the northern edge and dips to the south at an angle of about 10 degrees having an estimated thickness of about 3 ft. 8 in. Recent developments on leased land to the east and west of this tract justify the conclusion that coal in workable quantity and of good quality underlies this tract. The main line of the Midland Valley Railroad is near the north end of this tract.			
47	NW4 of NE4; N2 of NW4 of Sec. 27 and N2; NW4 of SW4 of Sec. 28, Twp. 8 N., R. 26 E.....	480	\$50.00	\$24,000.00
	The Panama seam crosses the northern part of Section 21 and dips to the south at an angle of from 12 to 15 degrees and is about 3 ft. 8 in. thick. Recent developments on leased land adjoining this tract on the east indicate that this tract is underlaid by workable coal of good quality. The main line of the Midland Valley Railroad crosses the northern boundary of this tract.			
48	W2 of E2; SW4; S2 of NW4 of Sec. 14 and N2 NW4 of SE4 SW4 of SW4; N2 of SW4 of Sec. 23, Twp. 8 N., R. 26 E.....	880	\$50.00	\$44,000.00
	The outcrop of the Panama seam crosses the northern boundary dipping to the south about 15 degrees and being 3 ft. 10 in. thick. Developments in an operating mine on leased land adjoining this tract on the west indicate that this tract is underlaid with workable coal although some irregularity and thickness of the seam may be expected as there are some variations in its thickness on the leased land above referred to. The Midland Valley Railroad crosses the northern boundary of this tract.			
48-A		80	\$50.00	\$4,000.00
	This is an isolated tract surrounded by leased lands. The outcrop of the Panama seam crosses the northwest corner, and the coal conditions are the same as in tract 48. The Midland Valley Railroad crosses the northern boundary of this tract.			
49	S2 of S2 of Sec. 12 and N2; NW4 of SE4; SW4 of Sec. 13 and E2 of E2 of Sec. 14 and NW4 of NW4 of Sec. 24, Twp. 8 N., R. 26 E.....	880	\$25.00	\$22,000.00
	The coal in this tract is believed to occur under the same conditions as in tract 48. A Government diamond drill sunk to a depth of 375 feet in the SW4 of the NE4 of Section 13 in			

McCurtain-Massey District, Unleased—Continued

Tract No. Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
	This tract showed the Panama seam at 362 ft. to be 1 ft. 8 in. thick. It also appears that prospecting some years ago by strip pits or small slopes on the crop showed the coal to be thin and light; however, recent developments a considerable distance from the outcrop on leased land a short distance west of this tract shows the coal to be in workable thickness and it is believed this tract also contains coal in workable quantities. The main line of the Midland Valley Railroad crosses the northern boundary, and the St. Louis-San Francisco Railroad is a short distance from this tract, therefore, railroad facilities are ample.			
	SE4; NE4 of SW4; S2 of SW4 of Sec. 7 and SW4; W2 of SE4 of Sec. 8 and NW4 of NE4; N2 of NW4 of Sec. 17 and N2 of N2; S2 of NW4; SW4 of NE4 of Sec. 18, Twp. 8 N., R. 27 E.....	920	\$20.00	\$18,400.00
	The outcrop of the Panama seam crosses the northern end near the boundary, dipping from 10 to 15 degrees, and the thickness based on the coal found by the drill hole in tract 49 is about 1 ft. 8 in. thick. However, considering the results of recent development on leased lands adjacent to tract 48, it is believed coal underlies this tract, of workable thickness, although under all circumstances a nominal value has been placed on the coal rights. This tract is crossed by two lines of railroad: namely, the Midland Valley and the St. Louis-San Francisco.			
	SE4 of NE4; E2 of SE4 of Sec. 8 and S2 of N2; S2 of Sec. 9 and SW4 of NW4; W2 of SW4 of Sec. 10 and NW4 of NW4 of Sec. 15 and N2 of N2 of Sec. 16 and NE4 of NE4 of Sec. 17, Twp. 8 N., R. 27 E.....	960	\$20.00	\$19,200.00
	It is believed that the coal seam under this tract is about the same as in tract 50 and has been so valued. Both the Midland Valley and the St. Louis-San Francisco Railroads cross this tract.			
	This tract adjoins tract 51 and conditions of the coal seam is considered the same as underlying tract 51.			
2	Lot 4 of Sec. 1 and Lots 1 and 2; S2 of NE4 of Sec. 2, Twp. 8 N., R. 23 E. and SW4 of SW4 of Sec. 25 and NE4 of SE4; S2 of SE4 of Sec. 26 and E2; E2 of W2 of Sec. 35 and NW4 of SW4; W2 of NW4 of Sec. 36, Twp. 9 N., R. 23 E.....	933.03	\$15.00	\$13,995.45
3	NE4 of SE4; S2 of SE4 of Sec. 24 and E2; E2 of W2; NW4 of SW4; SW4 of NW4 of Sec. 25 and NE4 of NW4 of Sec. 36, Twp. 9 N., R. 23 E. and Lots 2, 3 & 4 of Sec. 19 and Lots 1, 2 & 3 of Sec. 30, Twp. 9 N., R. 24 E.....	958.01	\$10.00	\$ 9,580.10
4	W2 of SW4 of Sec. 17 and SE4 of SE4 of Sec. 18 and E2; E2 of W2 of Sec. 19 and W2 of W2 of Sec. 20 and N2 of NE4; SW4 of NE4; E2 of NW4 of Sec. 30, Twp. 9 N., R. 24 E.....	960	\$10.00	\$ 9,600.00
55	E2; E2 of SW4; SE4 of NW4 of Sec. 17 and NE4; N2 of SE4; E2 of W2 of Sec. 20, Twp. 9 N., R. 24 E.....	840	\$10.00	\$ 8,400.00
56	SW4 of NE4; W2 of SE4; NE4 of SW4; S2 of SW4 of Sec. 9 and W2 of E2; W2 of Sec. 16 and NW4 of NE4; SW4 of NW4; N2 of NW4 of Sec. 21, Twp. 9 N., R. 24 E.....	880	\$10.00	\$ 8,800.00
	The outcrop of the Panama seam crosses the southeastern corner of these tracts dipping at an angle of about 10 degrees. A Government diamond drill sunk in tract 52 to a depth of 357 ft. in the NE4 of the NE4 of Section 35 showed at 108 ft., 1 ft. of coal; in tract 55 in			

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
57	S2 of SW4 of Sec. 3 and E2 of E2 of Sec. 9 and W2 of Sec. 10 and NW4 of SW4; NW4 of Sec. 15 and E2 of E2 of Sec. 16, Twp. 9 N., R. 24 E.	920	\$25.00	\$23,000.00
58	W2 of SW4; SW4 of NW4; Lot 4 of Sec. 2 and Lot 1; S2 of NE4; SE4; NE4 of SW4 of Sec. 3 and E2 of Sec. 10 and NW4 of SW4; W2 of NW4 of Sec. 11 and NW4 of NE4 of Sec. 15, Twp. 9 N., R. 24 E.	959.77	\$25.00	\$23,994.25
59	Lots 1, 2 & 3; S2 of NE4; SE4; E2 of SW4; SE4 of NW4 of Sec. 2 and N2 of NE4; SW4 of NE4; E2 of NW4 of Sec. 11, Twp. 9 N., R. 24 E.	681.14	\$25.00	\$17,028.50
60	Lots 1, 2, 3 & 4; S2 of N2; N2 of S2; SW4 of SE4; S2 of SW4 of Sec. 1 and NW4 of NW4 of Sec. 12, Twp. 9 N., R. 24 E.	641.36	\$25.00	\$16,034.00
61	SW4 of SE4; S2 of SW4 of Sec. 26 and E2 of NE4; SW4 of NE4; SE4 of Sec. 34 and W2 of NE4; SE4; W2 of Sec. 35, Twp. 9 N., R. 24 E.	960	\$55.00	\$52,800.00
62	SW4 of NE4; NW4 of SE4; S2 of SE4; SW4; S2 of NW4; NE4 of NW4 of Sec. 25 and E2 of SE4; NW4 of SE4; Sec. 26 and E2 of NE4 of Sec. 35 and N2 of Sec. 36, Twp. 9 N., R. 24 E.	960	\$55.00	\$52,800.00
63	NE4 of SE4; S2 of SE4 of Sec. 24 and N2 of NE4; SE4 of NE4; NE4 of SE4 of Sec. 25, Twp. 9 N., R. 24 E and S2 of NE4; N2 of SE4; SW4 of SE4; E2 of SW4; E2 of NW4; Lots 2, 3 & 4 of Sec. 19 and NW4 of NE4; E2 of NW4; Lots 1, 2 & 3 of Sec. 30, Twp. 9 N., R. 25 E.	952.19	\$55.00	\$52,370.45
64	SW4 of SW4; N2 of SW4; NW4 of Sec. 17 and E2; E2 of SW4; Lot 4 of Sec. 18 and N2 of NE4; NE4 of NW4; Lot 1 of Sec. 19 and NW4 of NW4 of Sec. 20, Twp. 9 N., R. 25 E.	916.46	\$55.00	\$50,405.30

The outcrop of the coal underlying these tracts is located along the southeastern boundaries. A crop prospect hole in tract 57 indicated the coal to be 2 ft. 6 in. thick, with a dip of from 3 to 10 degrees, which permits strip mining to some extent. Considering all circumstances, a nominal value has been placed on the coal rights in these tracts. The Midland Valley Railroad crosses tract 52 and the Kansas City Southern Railroad crosses tract 67, each about six miles distance.

The outcrop of the Panama seam extends along the northwestern corners of these tracts. A crop prospect hole in tract 61 showed the coal to be 4 ft. 6 in. thick, with a thin parting of shaly coal in the middle of the seam and dips about 18 degrees to the southeast. Mines on allotted lands adjacent to these tracts show the coal to be from 4 ft. to 5 ft. thick, with some irregularities in the seam. The coal appears to improve in character toward the north. A spur from the Midland Valley Railroad extends a distance of about 3 miles to tract 61 where there are mining operations on adjacent land.

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
5	S2 of SW4 of Sec. 28 and S2 of SE4 of Sec. 29 and E2 of Sec. 32 and W2 of Sec. 33, Twp. 9 N., R. 25 E.	800	\$20.00	\$16,000.00
6	SW4 of Sec. 27 and SE4 of Sec. 28 and E2 of Sec. 33 and W2 of Sec. 34, Twp. 9 N., R. 25 E.	960	\$20.00	\$19,200.00
7	SW4 of Sec. 26 and SE4 of Sec. 27 and E2 of Sec. 34 and W2 of Sec. 35, Twp. 9 N., R. 25 E.	960	\$20.00	\$19,200.00
8	SW4 of Sec. 25 and SE4 of Sec. 26 and E2 of Sec. 35 and W2 of Sec. 36, Twp. 9 N., R. 25 E.	960	\$20.00	\$19,200.00
9	SE4 of Sec. 25 and E2 of Sec. 36, Twp. 9 N., R. 25 E. and SE4 of SW4; Lots 3 & 4 of Sec. 30 and E2 of W2; Lots 1, 2 & 3 & 4 of Sec. 31, Twp. 9 N., R. 26 E.	920.08	\$20.00	\$18,401.60
10	SE4 of SE4; W2 of E2; E2 of W2; W2 of SW4; SW4 of NW4 of Sec. 29 and SE4 of NE4; SE4; NE4 of SW4 of Sec. 30 and N2 of NE4 of Sec. 31 and N2 of N2 of Sec. 32, Twp. 9 N., R. 26 E.	960	\$50.00	\$48,000.00
11	Lots 3 & 4; SW4 of NW4 of Sec. 4 and Lots 1 & 2; SE4 of NE4 of Sec. 5, Twp. 8 N., R. 26 E. and S2 of NE4; N2 of SE4 of Sec. 31 and S2 of N2; S2 of Sec. 32 and NW4 of SW4; S2 of NW4 of Sec. 33, Twp. 9 N., R. 26 E.	944.46	\$50.00	\$47,223.00
12	SE4 of SE4 of Sec. 20 and W2 of SE4; S2 of SW4; NE4 of SW4 of Sec. 21 and W2 of E2; W2 of Sec. 28 and NE4 of SE4; E2 of NE4 of Sec. 29, and NW4 of NE4 and N2 NW4 Sec. 33 Twp. 9 N., R. 26 E.	960	\$50.00	\$48,000.00
13	SE4 of NE4; E2 of SE4 of Sec. 21 and SW4 of SE4; SW4; S2 of NW4 of Sec. 22 and W2 of NE4; NW4 of SE4; NE4 of SW4; W2 of SW4; NW4 of Sec. 27 and E2 of E2 of Sec. 28, Twp. 9 N., R. 26 E.	960	\$40.00	\$38,400.00
14	E2 of E2; SW4 of NE4; NW4 of SE4 of Sec. 22 and SW4 of NE4; W2 of SE4; W2 of Sec. 23 and NW4 of NE4; NW4 of Sec. 26 and E2 of NE4 of Sec. 27, Twp. 9 N., R. 26 E.	960	\$40.00	\$38,400.00
15	S2 of SW4 of Sec. 13 and SE4 of SE4 of Sec. 14 and E2 of E2; NW4 of NE4 of Sec. 23 and W2 of E2; W2 of Sec. 24 and NW4 of NE4; N2 of NW4 of Sec. 25 and NE4 of NE4 of Sec. 26, Twp. 9 N., R. 26 E.	960	\$40.00	\$38,400.00
16	S2 of SE4 of Sec. 13 and E2 of E2 of Sec. 24 and NE4 of NE4 of Sec. 25, Twp. 9 N., R. 26 E. and S2 of SW4 of Sec. 18 of SW4; E2 of NW4; Lots 2, 3 & 4 of Sec. 19 & W2 of NE4 & N2 of N2 Sec. 30 Twp. 9 N. 27 E.	960	\$40.00	\$38,400.00

These tracts are all located behind tracts 37 and 45 inclusive, on which the outcrop is located and the remarks concerning such tracts apply to these above mentioned tracts, except that the coal lies at a greater depth and is valued accordingly. The Kansas City Southern Railroad crosses tracts 66 and 67.

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment	
			Per Acre	Total
77 GAL EIGHT	S2 of SE4 of Sec. 18 and E2 of E2; NW4 of NE4 of Sec. 19 and W2 of W2 of E2; W2 of Sec. 20 and W2 of W2 of NE4; NW4 of Sec. 29 and E2 of NE4 of Sec. 30, Twp. 9 N., R. 27 E.	960	\$40.00	\$38,400.00
78	E2 of E2; E2 of W2 of E2 of Sec. 20 and W2 of W2 of E2; W2 of Sec. 21 and W2 of W2 of NE4; NW4 of Sec. 28 and E2 of NE4; E2 of W2 of NE4 of Sec. 29, Twp. 9 N., R. 27 E.	960	\$40.00	\$38,400.00
79	(Parcel) Lot 2; Pt. of W2 of SE4; E2 of SW4; SE4 of NW4 of Sec. 10 and Lot 1; NE4 of NW4 of Sec. 15, Twp. 8 N. R. 27 E.	299.04	\$20.00	\$ 5,980.80
79	(Parcel) E2 of E2; E2 of W2 of E2 of Sec. 21 and Lots 1, 2, 3 & 4 of Sec. 22; Lots 1 and 2 of Sec. 27 and E2 of NE4; E2 of W2 of NE4 of Sec. 28, Twp. 9 N., R. 27 E.	660.66	\$40.00	\$26,426.40
<p>The outcrop of the Panama coal extends along the southeast and southern boundaries of these tracts, except tract 70 where the outcrop is located one mile south of the southeast corner. A crop prospect hole in the southeast corner of Section 32 on tract 71 shows the seam to be about 4 ft. thick, and near the southeast corner of tract 75 a prospect showed 3 ft. 6 in. of coal with a thin parting of shale in the center, while another prospect hole on the seam in the southeast corner of 76 showed the coal to be 4 ft. thick. A diamond drill sunk by the Government in 1908 in tract 71 to a depth of 113 ft. showed 4 ft. 8 in. of coal at 87 ft. and another sunk to a depth of 294 on 77 showed 1 ft. 6 in. of coal at 224 ft. and 2 ft. 4 in. of coal at 22 ft. with shale between. Based upon all of such prospect holes and drilling, it is estimated these tracts are underlaid with about 4 ft. 6 in. with a dip of from 3 to 20 degrees. The St. Louis-San Francisco Railroad crosses tract 79.</p>				
80	Lots 1, 2 & 3; SE4 of NE4 of Sec. 2, Twp. 6 N., R. 16 and S2 of NE4; E2 of SE4; SW4 of SE4; SE4 of SW4 of Sec. 35, Twp. 7 N., R. 16 E.	401.02	\$30.00	\$12,030.60
<p>The seam outcrops on the west side dipping toward the northeast 3 degrees to 5 degrees. It is estimated that the coal on this tract maintains a thickness of 3 ft. The Ft. Smith & Western Railroad runs 1 1-4 miles north of this tract.</p>				
81	Lots 1, 2, 3 & 4; S2 of N2 of Sec. 1, Twp. 6 N., R. 16 E and Lots 4 & 5 of Sec. 6, Twp. 6 N., R. 17 E and S2 of N2; S2 of Sec. 36; Twp. 7 N., R. 16 E.	871.26	\$30.00	\$26,137.80
<p>The seam outcrops along the south side dipping toward the north at an angle of 3 to 5 degrees. It has been demonstrated that the seam in the northern part is in the center of the basin, near the center of Section 36 and lies at a depth of 200 ft. It has been proven by drilling that this tract is entirely underlaid with coal. About three-fourths of a mile north of this tract there are old stripping operations, on allotted lands, which shows the seam to be from about 3 ft. to 3 ft. 6 in. thick, of clean coal. The Ft. Smith & Western Railroad runs 1 1-4 miles north of this tract.</p>				
82	Lots 3 & 4 of Sec. 5 and Lots 1, 2 & 3; SE4 of NW4 of Sec. 6, Twp. 6 N., R. 17 E. and S2 of NE4; SE4; E2 of SW4; SE4 of NW4; Lots 2, 3 & 4 of Sec. 31 and S2 of NW4; SW4 of Sec. 32, Twp. 7 N., R. 17 E.	949.87	\$30.00	\$28,496.10
<p>The outcrop of the seam crosses the southern boundary and the coal occurs under about the same conditions of structure as found in tract 81. About three-fourths of a mile north of allotted land, there is a slope in operation in which the thickness of the seam is shown to be about 3 ft. 6 in. of clean coal, with a dip to the south about 3 to 4 degrees. This slope adjoins on the west an old pit in which the coal was mined rather extensively several years ago. The Ft. Smith & Western Railroad runs 2 miles north of this tract.</p>				

McCurtain-Massey District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment	
			Per Acre	Total
	SW4 of Sec. 29 and Lots 3 & 4; E2 of SW4; SE4 of Sec. 30 and N2 of NE4; NE4 of NW4; Lot 1 of Sec. 31 and N2 of NW4 of Sec. 32, Twp. 7 N., R. 17 E.	945.77	\$40.00	\$37,830.00
<p>The outcrop of the coal seam crosses the northern edge of this tract, the coal seam dipping to the south at an angle about 3 degrees; the seam is from 3 ft. 6 in. to 4 ft. thick, of clean coal. There is an operating and producing mine on allotted land adjoining this tract on the north and also old stripping operations on this tract where coal was mined some years ago. The seam shows the coal seam to be about 3 ft. 6 in. thick, of clean coal and of good quality. The main line of the Ft. Smith & Western Railroad is about 1 mile north of the northern boundary of this tract.</p>				
	SW4 of Sec. 25 and NW4 of NE4; S2 of NE4; SE4; S2 of SW4; NE4 of SW4; SE4 of NW4 of Sec. 26 and NE4 of NE4 of Sec. 34 and N2 of NE4; NW4 of Sec. 35 and N2 of NW4 of Sec. 36, Twp. 7 N., R. 16 E.	960	\$40.00	\$38,400.00
<p>This tract lies across the central part of the basin, the coal outcropping in the northeast southwest sides, and each case dipping towards the center of the tract at an angle of about 3 degrees. It is believed that the coal in the central part of the tract is about horizontal. On allotted land adjoining on the north there is an operating mine from which coal is being produced at the present time; the coal seam being from 33 to 36 in. thick, and having a dip to the south of about 12 degrees. It is believed that this entire tract is underlaid with workable coal, the seam varying in thickness from 3 ft. to 3 ft. 6 in. The main line of the Ft. Smith & Western Railroad crosses near the northern end of this tract.</p>				
	E2 of SE4; S2 of SW4 of Sec. 23 and NW4 of SW4; N2 of NW4; SW4 of NW4 of Sec. 26 and All of Sec. 27, Twp. 7 N., R. 16 E.	960	\$40.00	\$38,400.00
<p>The outcrop of the seam extends along the southern and the northeast borders. The coal occurs under about the same conditions as in tract 83. It is considered that the entire tract is underlaid by workable coal. The main line of the Ft. Smith & Western Railroad crosses this in the northeastern corner.</p>				
	S2 of Sec. 21 and All of Sec. 28, Twp. 7 N., R. 16 E.	960	\$30.00	\$28,800.00
<p>The coal outcrops on the southern border which dips to the north at an angle of 5 to 10 degrees. It is believed that the northern part of the tract is in the central part of a low anticline, the coal dipping to the southwest at an angle of 1 to 3 degrees. It is considered that the entire tract is underlaid by coal. The Ft. Smith & Western Railroad runs one-half mile north of this tract.</p>				
	All of Sec. 16 and N2 of Sec. 21, Twp. 7 N., R. 16 E.	960	\$30.00	\$28,800.00
<p>This tract lies upon the northern side of a low anticline. The coal is entirely beneath surface and the dip throughout the tract is at a low angle toward the northwest. It is estimated that near the center of the eastern side of Section 16 the coal lies at a depth of 150 ft. The main line of the Ft. Smith & Western Railroad crosses this tract in a southeast to northwest direction.</p>				
	NW4 of SE4; S2 of SE4; SW4; S2 of NW4; NW4 of NW4 of Sec. 15 and N2; W2 of SE4; SW4 of Sec. 22, Twp. 7 N., R. 16 E.	960	\$40.00	\$38,400.00
<p>The coal seam outcrops on the extreme eastern border near the center of the east side of Section 22 dipping to the west 1 to 2 degrees. This tract lies across the central part of a low anticline in the southeastern part of the tract the dip is towards the southwest at a low angle and the northern part is toward the northwest at a low angle. It is believed that the entire tract is underlaid with workable coal. The main line of the Ft. Smith & Western Railroad crosses this tract from southeast to northwest.</p>				

SCHEDULE OF APPRAISEMENT SEGREGATED UNLEASED COAL DEPOSITS.

Lehigh-Ardmore District, Choctaw Nation, Oklahoma.

There are two seams of coal in the Lehigh-Ardmore District: namely, the Atoka and Lehigh.

The Ardmore division of this District contains no segregated coal. The coal deposits whatever they may be, having been sold with the segregated surface of the land.

While the rocks containing the Hartshorne and McAlester seams are exposed from the Savanna division of the McAlester District southwest through the east and southeast sides of the Lehigh division, the outcrops of the Hartshorne and McAlester seams cannot be traced from the McAlester to Lehigh-Ardmore District on account of the disturbed condition of the rocks, therefore, the exact condition of the seams of the two districts cannot be definitely determined, accordingly the seams are named from the places where they are known and have been developed: namely, Atoka and Lehigh.

The Lehigh seam, which furnishes nearly all the coal mined at Lehigh and Coalgate, ranges in thickness from 4 ft. to 5 ft., averaging about 4 ft. Generally this seam is clean and free from persistent bands. It has been mined many years at Lehigh, Coalgate and Phillips. While the Lehigh coal is not equal in quality to the McAlester and Wilburton coals, still it is used extensively for domestic and railroad steam purposes.

The Atoka seam underlies the Lehigh about 1200 ft. It is quite variable in character and ranges in thickness from 2 ft. to 3 ft., in some places 5 ft. In some places it is overlaid and frequently cut out, by a bed of soft black shale ranging in thickness from 3 ft. to 5 ft. causing underground mining to be difficult and expensive. This seam has been extensively prospected, but only recently mined to any extent. For the past two years the St. Louis & Galveston Coal & Mining Company, on leased land, has been extensively and successfully stripping the coal with steam shovels. It is believed that the future may prove the Atoka seam to contain valuable coal, workable both with steam shovels and underground operations.

The Atoka-Oklahoma City branch of the Missouri, Kansas & Texas Railway, the Ardmore-Haileyville branch of the Chicago, Rock Island & Pacific Railroad, and the Purcell-Lehigh branch of the Atchison, Topeka & Santa Fe Railroad, traverse this District as indicated in the description of each tract in the following schedule.

Lehigh-Ardmore District, Unleased—Continued

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
1	E2 of E2 of Sec. 11 and W2 of W2 of E2; W2 of Sec. 12 and W2 of W2 of NE4; NW4 of Sec. 13 and NE4; NE4 of NW4 of Sec. 14, Twp. 2 S., R. 10 E.	960	\$20.00	\$19,200.00
<p>This tract is underlaid with the Atoka seam, the outcrop crossing the southern border dipping toward the northeast from 3 to 10 degrees. It is estimated that the inclination of the seam decreases slightly to the northeast until reaching a depth of from 60 to 700 feet in the northeast corner.</p> <p>Prospecting and small slopes driven in the seam along the crop shows the coal to be irregular and faulty and only workable in small pockets, however, recent developments show it is possible to mine the coal by stripping operation, the coal on the adjoining tract of the St. Louis and Galveston Coal & Mining Company being from 3 ft. 6 in. to 4 ft. thick, dipping from 3 to 5 degrees and being mined by steam shovel.</p> <p>It is believed that the coal underlies this tract in about the same condition and can be mined successfully by a combination of stripping and slope mining. The nearest railroad is a spur of the Coalgate branch of the Missouri, Kansas & Texas Railway which crosses tract</p>				
2	E2 of E2; E2 of W2 of E2 of Sec. 12 and E2 of NE4; E2 of W2 of NE4 of Sec. 13, Twp. 2 S., R. 10 E.; E2 of W2; Lots 1, 2, 3 & 4 of Sec. 7 and NE4 of SW4; E2 of NW4; Lots 1 & 2 of Sec. 18, Twp. 2 S., R. 11 E.	878.28	\$20.00	\$17,565.60
<p>The seam underlying this tract outcrops under practically the same condition as in tract 1, the outcrop crossing the southern boundary in an east-west direction, dipping toward the north. By reason of recent developments on the leased land to the northwest it is considered that this tract can be mined by a combination of stripping and slopes. The Coalgate branch of the Missouri, Kansas & Texas Railway is within a half mile of this tract.</p>				

Lehigh-Ardmore District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
3	Lots 1 & 2; S2 of NE4; S2 of Sec. 1, Twp. 2 S., R. 10 E. and Lots 3, 4, 5, 6 & 7; SE4 of NW4; E2 of SW4 of Sec. 6, Twp. 2 S., R. 11 E. and SE4 of Sec. 36, Twp. 1 S., R. 10 E.	957	\$10.00	\$ 9,570.00
<p>The leased land of the St. Louis and Galveston Coal & Mining Company contains the outcrop of the Atoka seam, which underlies this tract, which is behind tracts 1, 2 and 4, and it is estimated that the seam underlying this tract, at the most shallow point, at the east end is at a depth of 300 ft. and dips toward the northeast at an angle of from 5 to 10 degrees, and lies at a depth of about 1200 ft. in the northeast corner. The seam is estimated to be from 3 to 4 ft. thick, however, considering the recent developments on the leased land of the St. Louis and Galveston Coal & Mining Company nearby, lead to the conclusion that this tract is underlaid with workable coal though a nominal value is placed on the coal rights. The main line of the Coalgate branch of the Missouri, Kansas & Texas Railway crosses the northeast corner of the tract.</p>				
4	Lots 3 & 4; S2 of NW4 of Sec. 1 and Lots 1, 2, 3 & 4; S2 of N2; N2 of SE4; SE4 of SE4; NE4 of SW4 of Sec. 2 and Lot 1; SE4 of NE4 of Sec. 3, Twp. 2 S., R. 10 E. and S2 of S2 of Sec. 35 and S2 of SW4 of Sec. 36, Twp. 1 S., R. 10 E.	956.94	\$10.00	\$ 9,569.40
<p>It is believed this tract is underlaid with the Atoka seam, the outcrop being on the leased land of the St. Louis and Galveston Coal & Mining Company. It is estimated that the seam in the southwest corner of this tract lies at a depth of 250 ft. where it is from 3 to 5 ft. thick, with a dip of from 3 to 10 degrees and extends under this tract. A spur of the Coalgate branch of the Missouri, Kansas & Texas Railway crosses the tract.</p>				
4A	Lots 2, 3 & 4; SW4 of NE4; S2 of NW4 of Sec. 3 and Lot 1; SE4 of NE4 of Sec. 4, Twp. 2 S., R. 10 E. and E2; E2 of NW4; NE4 of SW4 of Sec. 33 and W2 of W2; SE4 of SW4 of Sec. 34, Twp. 1 S., R. 10 E.	956.71	\$15.00	\$14,350.65
<p>St. Louis & Galveston Coal Company, Lease No. 1. Located on a spur of the Missouri, Kansas & Texas Railway. Lease expires October 2, 1929. About 400 acres is located behind the coal outcrop and 75.71 acres mined out, leaving 481 acres underlaid with the Atoka seam from 2 ft. 6 in. to 4 ft. thick, with a dip of about 5 degrees. The larger part of the remaining acreage of coal will probably be mined by stripping. In 1908 Mr. Cameron reported 410 acres behind the crop and 1 acre mined out leaving 549 acres of workable coal, which he valued at \$25 per acre or a total of \$13,729.00. The coal in this tract is considered of greater value than indicated by Mr. Cameron, therefore, considering present conditions it is believed the present fair value is indicated in the above schedule.</p>				
5	Lots 2, 3 & 4; SW4 of NE4; W2 of SE4; SW4; S2 of NW4 of Sec. 5 and N2 of SE4; SE4 of SE4 of Sec. 6 and W2 of NE4; N2 of NW4 of Sec. 8, Twp. 2 S., R. 11 E. and S2 of S2 of Sec. 32, Twp. 1 S., R. 11 E.	919.87	\$25.00	\$32,996.75
<p>This tract is underlaid with the Lehigh seam, the outcrop extending along the southwest border parallel with the Missouri, Kansas & Texas Railway, dipping about 10 degrees to the northeast and is about 2 ft. 9 in. thick. This tract adjoins leased land of the Fulson-Morris Coal Mining Company on the northwest, on part of which there has been recent mining operations which show the Lehigh seam here to have an average thickness of about 3 ft. The Coalgate branch of the Missouri, Kansas & Texas Railway crosses this tract.</p>				
6	SW4 of SE4 of Sec. 6 and E2 of Sec. 7 and SW4; S2 of NW4 of Sec. 8 and NW4 of SW4; W2 of NW4 of Sec. 17 and NE4; N2 of SE4 of Sec. 18, Twp. 2 S., R. 11 E.	960	\$20.00	\$19,200.00
<p>It is believed this tract is underlaid only with the Atoka seam, the outcrop crossing the southern boundary in an east-west direction, dipping toward the north about 7 degrees and es-</p>				

Lehigh-Ardmore District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
	<p>estimated to be from 3 to 4 ft. thick. Considering the recent developments on leased land northwest and the introduction of steam shovel methods of mining in this District, considered that this tract contains workable coal. The Missouri, Kansas & Texas Railway crosses the extreme northeast corner of this tract.</p>			
7	<p>Lots 2, 3 & 4; SW4 of NE4; W2 of SE4; SW4; S2 of NW4 of Sec. 4 and Lot 1; SE4 of NE4; E2 of SE4 of Sec. 5 and E2 of NE4 of Sec. 8 and SW4 of NW4; N2 of NW4 of Sec. 9, Twp. 2 S., R. 11 E. and NE4 of SW4; S2 of SW4 of Sec. 33, Twp. 1 S., R. 11 E.</p>	959.49	\$25.00	\$23,922.50
	<p>It is estimated that this tract is overlaid with Lehigh coal the outcrop crossing southern end, the seam dipping toward the north about 10 degrees and being about 12 ft. thick. The Atoka seam also undoubtedly underlies this tract but at a depth of 1160 to 1200 ft. in the shallowest part of the southern end and therefore its value is not considered in the appraisalment. The Coalgate branch of the Missouri, Kansas & Texas Railway crosses this tract.</p>			
8	<p>SE4 of Sec. 8 and SW4; SE4 of NW4 of Sec. 9 and NW4 of NE4; NW4 of SW4; NW4 of Sec. 16 and NE4; N2 of SE4; NE4 of SW4; E2 of NW4 of Sec. 17, Twp. 2 S., R. 11 E.</p>	960	\$20.00	\$19,200.00
	<p>It is believed that this tract is overlaid with the Atoka seam, the outcrop crossing southern and southeastern border, dipping north and northwest from 10 to 20 degrees estimated to be from 3 to 4 ft. thick. Considering the fact that the main line of the Missouri, Kansas & Texas Railway crosses the northeast corner and that leased lands to the west containing coal under similar conditions are being developed it is believed that this tract should be considered as containing workable coal.</p>			
9	<p>Lots 1, 2, 3 & 4; SW4 of NE4; NW4 of SE4; SW4; S2 of NW4 of Sec. 3 and E2 of SE4; SE4 of NE4; Lot 1 of Sec. 4 and NE4; N2 of SE4; SW4 of SE4 of Sec. 9 and NW4 of NW4 of Sec. 10, Twp. 2 S., R. 11 E.</p>	958.76	\$20.00	\$19,175.20
	<p>It is believed this tract is overlaid with both the Atoka and Lehigh seams, the outcrop of the former crossing the southeast border and estimated to be about 4 ft. thick, with a dip of 20 to 30 degrees, but toward the northwest. After extending across the center of the tract a northeast southwest direction with an estimated thickness of about 3 ft. with a dip of 20 to 30 degrees, but toward the northwest. Considering the steep dip of these seams probably not more than one-half of the entire area can be mined out, therefore, a nominal value is indicated for all the coal rights under the entire tract. The Coalgate branch of the Missouri, Kansas & Texas Railway crosses this tract.</p>			
10	<p>SW4; S2 of NW4; Lots 3 & 4 of Sec. 5 and Lots 1 & 2; S2 of NE4; SE4; SE4 of SW4 of Sec. 6 and NE4; E2 of NW4 of Sec. 7, Twp. 1 S., R. 10 E.</p>	931.56	\$30.00	\$27,948.00
11	<p>NE4 of SE4 of Sec. 7 and N2; N2 of S2; S2 of SE4; SE4 of SW4 of Sec. 8 and SW4; S2 of NW4 of Sec. 9 and NW4 of NE4; NE4 of NW4 of Sec. 17, Twp. 1 S., R. 10 E.</p>	960	\$30.00	\$28,800.00
12	<p>NW4 of SE4; S2 of SE4; SW4; S2 of NW4; Lot 4 of Sec. 4 and Lots 1 & 2; S2 of NE4; SE4 of Sec. 5 and N2 of N2 of Sec. 9 and NW4 of NW4 of Sec. 10, Twp. 1 S., R. 10 E.</p>	930.95	\$30.00	\$27,928.50
	<p>It is estimated that these tracts are overlaid with the Atoka seam; on tract 10 the outcrop crosses the southwest corner dipping toward the northeast. On tract 11 the outcrop crosses the southwest corner and on tract 12 the coal underlies the entire tract being 400 to 500 ft. below the surface in the southwest corner, the outcrop of which is located on tracts 10 and 11. It is estimated that coal underlying this tract will average 3 ft. thick, with a dip of about 8 degrees, based on a diamond drill hole by the Government in 1908 near the southwest corner of Section 8 between tracts 10 and 11 to a total depth of 320 ft. the drill penetrating 3 ft. 1 in. of coal at 242 ft. 8 in. at 253 ft., 1 ft. 7 in. of coal. The nearest railroad is the leased lands adjoining tract 26, being the Chicago, Rock Island & Pacific.</p>			

Lehigh-Ardmore District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
13	<p>S2 of NE4; SE4 of Sec. 9 and SW4 of SE4; SW4; SW4 of NW4 of Sec. 10 and N2 of Sec. 15 and NE4 of Sec. 16, Twp. 1 S., R. 10 E.</p>	960	\$20.00	\$19,200.00
14	<p>W2 of Sec. 16 and E2 of E2; NW4 of SE4; SW4 of NE4; SE4 of NW4 of Sec. 17 and E2 of NE4; NE4 of SE4 of Sec. 20 and N2 of SW4; NW4 of Sec. 21, Twp. 1 S., R. 10 E.</p>	960	\$20.00	\$19,200.00
	<p>These tracts are overlaid with the Atoka seam which on tract 13 is located at a depth of about 500 ft. in the southwest corner and on tract 14 the crop crosses the western boundary, dipping toward the northeast about 5 degrees. It is estimated that each of these tracts contain the Atoka coal with a thickness of about 3 ft. 1 in. and a dip of about 8 degrees based on information obtained by Government drill hole between tracts 10 and 11. Considering the developments on leased lands to south and that two railroads are accessible, crossing tract 26, it is believed all the coal under these tracts can be mined.</p>			
15	<p>S2 of Sec. 15 and SE4 of Sec. 16 and NE4 of Sec. 21 and N2 of Sec. 22, Twp. 1 S., R. 10 E.</p>	960	\$10.00	\$9,600.00
	<p>It is estimated that the Atoka seam underlies this tract being entirely beneath the surface, lying at a depth of about 400 ft. in the southwest corner and dipping northeast about 3 to 5 degrees. A diamond drill hole sunk by the Government in 1908 in Section 28 in the center of tract 17 to a depth of 461 ft. showed only 1 in. of coal. Although the results of such drilling indicate no coal at that particular point unless the seam thins out or contains a fault it would seem proper to condemn other localities in the near vicinity, especially so far distant as tract 15. However, under such circumstances only a nominal value has been placed upon all coal rights under this tract. The Coalgate branch of the Missouri, Kansas & Texas Railway is a distance of about one-half mile east of the northeast corner of the tract.</p>			
16	<p>S2 of Sec. 22 and W2 of SE4; SW4 of Sec. 23 and W2 of NE4; NW4 of Sec. 26 and N2 of N2 of Sec. 27, Twp. 1 S., R. 10 E.</p>	960	\$10.00	\$9,600.00
	<p>It is estimated that the Atoka seam in this tract occurs under practically the same conditions as in tract 15. In the southwest corner of the tract the coal, it is believed, lies at a depth of 450 ft. The Lehigh outcrop crosses the northeast corner of the tract giving an area of about 15 acres of the Lehigh coal. The remarks concerning the value of the coal in tract 15 apply to this tract in view of the results of drilling on tract 17. The main line of the Missouri, Kansas & Texas Railway extends across the extreme northeast corner.</p>			
17	<p>SE4 of SE4 of Sec. 20 and SE4; S2 of SW4 of Sec. 21 and All of Sec. 28 and NE4 of NE4 of Sec. 29, Twp. 1 S., R. 10 E.</p>	960	\$10.00	\$9,600.00
	<p>The outcrop of the Atoka seam crosses the extreme western border, dipping to the east from 3 to 5 degrees. This tract joins leased land on the south on which coal is being produced at the present time by stripping operation and the outcrop of the coal seam which is being mined there extends across tract 17, however, in view of the result of a drill hole on this tract, and referred to in explanations of tract 15, only a nominal value for all coal rights in this tract has been fixed.</p>			
18	<p>S2 of N2; S2 of Sec. 27 and E2; NE4 of SW4; E2 of NW4 of Sec. 34, Twp. 1 S., R. 10 E.</p>	920	\$10.00	\$9,200.00
	<p>It is estimated that this tract contains the Atoka seam at a depth of about 200 ft. at the southwest corner, the outcrop of which is located on leased land. A diamond drill hole was sunk by the Government in 1908 near the east quarter corner of Section 34 on the line between tracts 18 and 19 to a total depth of 667 ft. at 398 ft., 1 ft. 1 in. of coal only was found, thereby indicating that the seam thinned out or contained a fault at such point, as mining operations at present are being conducted in this seam on adjoining leased land. Under all circumstances, however, only a nominal value has been fixed for the coal rights under this tract.</p>			

Lehigh-Ardmore District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
19	W2 of SE4; SW4 of Sec. 26 and N2; N2 of S2 of Sec. 35 and N2 of SW4; NW4 of Sec. 36, Twp. 1 S., R. 10 E.	960	\$10.00	\$ 9,600
<p>It is believed that Atoka seam underlies this tract at a depth of about 400 ft. in southwest corner, dipping toward the northeast from 3 to 5 degrees. Considering, however, the result of a drill hole between tracts 18 and 19 only a nominal value has been fixed on coal rights under this tract, although it is not believed that the non-existence of coal in a drill hole condemns this tract in view of mining operations on adjacent leased land on same seam.</p>				
20	Lots 2, 3 & 4; S2 of N2; S2 of Sec. 5 and Lots 1 & 2; S2 of NE4; SE4 of Sec. 6, Twp. 1 S., R. 11 E.	944.70	\$40.00	\$37,788
21	E2 of Sec. 7 and All of Sec. 8, Twp. 1 S., R. 11 E.	960	\$40.00	\$38,400
22	N2; N2 of S2 of Sec. 17 and NE4 and N2 of SE4 of Sec. 18, Twp. 1 S., R. 11 E.	720	\$40.00	\$28,800
<p>It is believed that these tracts contain the Lehigh seam which is entirely beneath surface, the outcrop being located on leased lands of the Fulson-Morris Coal Mining Company where there are, at the present time, operating mines and where the seam is 4 ft. 6 in. thick dipping about 5 degrees. It is believed that the coal is at a depth of 1200 ft. in the west end of these tracts where the dip is from 10 to 15 degrees. By reason of the conditions found in the mines on leased land adjoining these tracts on the west and while it is believed that the coal seam will lie at a considerable depth and at an increasing angle of dip, it is a conviction, that some of the best coal in this field will be found underlying these tracts. Missouri, Kansas & Texas Railway and the Santa Fe Railroad parallel these tracts a short distance to the west on leased land.</p>				
23	S2 of S 2of Sec. 17 and S2 of SE4 of Sec. 18 and NE4 of Sec. 19 and N2 of Sec. 20, Twp. 1 S., R. 11 E.	720	\$40.00	\$28,800
24	E2 of SE4 of Sec. 19 and S2 of Sec. 20 and N2; N2 of N 2of S2 of Sec. 29, Twp. 1 S., R. 11 E.	800	\$40.00	\$32,000
25	W2 of SW4 of Sec. 28 and S2 of N2 of S2; S2 of S2 of Sec. 29 and N2; N2 of S2 of Sec. 32; NW4 of SW4; S2 NW4; NW4 og NW4 of Sec. 33, Twp. 1 S., R. 11 E.	960	\$40.00	\$38,400
<p>It is believed that these tracts are underlaid with the Lehigh seam which lies at a depth of between 500 and 600 feet in the western part where they join leased land and where thickness averages about 3 ft. 6 in. with a dip of about 5 degrees. The Missouri, Kansas Texas Railway and the Santa Fe Railroad parallels these tracts a short distance on the west leased land.</p>				
26	(Parcel 1) N2 of S2; S2 of SE4 of Sec. 1, Twp. 1 S., R. 9 E. and NE4 of SW4; Lots 6 & 7 of Sec. 6 and Lot 1 of Sec. 7, Twp. 1 S., R. 10 E.	385.15	\$30.00	\$11,554
<p>This tract contains the Atoka seam which crosses near the southwestern boundary and dips toward the northeast at an angle of about 8 degrees and is entirely underlaid with workable coal, which, judging from the Government prospect hole in tract 11 is about 3 ft. 1 in. thick, with a dip of about 8 degrees. The Chicago, Rock Island & Pacific Railroad crosses this tract.</p>				
26	(Parcel 2) E2 of NW4; Lots 2, 3 and 4; E2 of SW4 of Sec. 31, Twp. 1 N., R. 10 E.	279.66	\$30.00	\$ 8,389
<p>It is estimated that this tract contains the Lehigh seam at an average thickness of about 4 ft. with a dip of between 20 and 30 degrees. This tract joins leased land on the east on which there are operating mines where the seam is about 4 ft. thick, with a dip of from 10 to 12 degrees.</p>				

Lehigh-Ardmore District, Unleased—Continued.

Tract No.	Appraisalment	on Map Area	DESCRIPTION Per Acre	Total
<p>green to the northwest, however, there are some faults disclosed in these mine workings and these faults may be expected to occur in this tract which detracts somewhat from the value of the coal. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad crosses this tract in a northeast to a southwest direction and the Santa Fe and the Missouri, Kansas & Texas Railway can also be reached from this tract.</p>				
26A	Lots 1, 2, 3 & 4; S2 of N2 of Sec. 1, Twp. 1 S., R. 9 E. and Lots 3 & 4; S2 of NW4 of Sec. 6, Twp. 1 S., R. 10 E., and S2 of NE4; SE4 of NW4; Lots 2, 3 & 4; E2 of SW4; SE4 of Sec. 36, Twp. 1 N., R. 9 E.	967.72	\$ 5.00	\$ 4,838.60
<p>Denison Coal Company, Lease No. 1. Located on the Chicago, Rock Island & Pacific and the Santa Fe Railroads. Lease expires September 23, 1932. The coal outcrop on the tract has not been definitely located although prospected and no coal found. In 1908 Mr. Cameron reported 480 acres located behind the crop leaving 480 acres of the Lehigh seam 4 ft. thick, with a dip of about 10 degrees which he valued at \$30 per acre or a total of \$14,400.00. Attention is invited to an Act of Congress approved January 25, 1917; this lessee was authorized to exchange this tract for another, however, it appears no action has been taken with reference to such exchange and this lease apparently is still in effect. It is presumed that the Lehigh seam underlies this tract as indicated by a mine on the adjoining tract (Hazelton Coal Company, No. 27-D on Map), but in view of the uncertainty of the existence of any seam, its thickness or depth, a nominal value only for any and all coal which might be found in this tract is indicated in the above schedule.</p>				
27	(Parcel 1) SE4 of SW4 of Sec. 15 and S2 of NE4 of Sec. 21 and SW4 of NW4; N2 of NW4 of Sec. 22, Twp. 1 N., R. 10 E.	240	\$40.00	\$ 9,600.00
<p>The coal in this tract is entirely beneath the surface and consists of the Lehigh seam which dips toward the northwest, the outcrop being located on leased land of the Coalgate Company, where the coal is about 4 ft. thick, with a dip of from 10 to 40 degrees. The Chicago, Rock Island & Pacific Railroad crosses this tract.</p>				
28	(Parcel 1) NE4 of SE4; S2 of SE4 of Sec. 11 and SW4; S2 of NW4; NE4 of NW4 of Sec. 12 and NE4; S2 of NW4; NE4 of NW4 of Sec. 14 and SE4 of NE4 of Sec. 15, Twp. 1 N., R. 10 E.	720	\$45.00	\$32,400.00
<p>This tract lies in the northwest side of the Coalgate anticline. It is estimated that in the southeastern corner of the NE4 of Section 14 the coal lies at a depth of 500 ft., dipping toward the northwest from 20 to 25 degrees, decreasing toward the northwest to about 10 degrees in the northwest side and is about 4 ft. thick. The Chicago, Rock Island & Pacific Railroad and Missouri, Kansas & Texas Railway are accessible to this tract.</p>				
29	SE4 of SE4 of Sec. 25 and N2 of NE4; N2 of S2 of NE4 of Sec. 36, Twp. 1 N., R. 10 E. and Lot 4; E2 of SW4; W2 of W2 of SE4 of Sec. 19 and W2 of W2 of NE4; E2 of NW4; Lots 1, 2, 3 & 4; E2 of SW4 of Sec. 19, Twp. 1 N., R. 11 E.	660.99	\$60.00	\$39,659.40
<p>This tract contains the Lehigh seam and is situated on the southeast side of the Coalgate anticline, the outcrop being located on leased land of the M., K. & T. Ry. Company. The Coal is estimated to lie at a depth of 800 ft. near the east border of this tract and is estimated to be entirely underlaid with workable Lehigh coal with a thickness of about 4 ft. 8 in. with a dip averaging about 10 degrees. The existence of the seam is well established through mining operations on leased land adjacent. The Missouri, Kansas & Texas Railway is located a short distance to the east.</p>				

Lehigh-Ardmore District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
30	S2 of SE4 of Sec. 1, Twp. 1 N., R. 10 E. and SW4 of NE4; W2 of SE4; SW4; S2 of NW4 of Sec. 5 and SE4; E2 of SW4; Lots 3 & 4 of Sec. 6 and NW4 of NE4; SW4 of NW4; N2 of NW4 of Sec. 8, Twp. 1 N., R. 11 E.	908.88	\$45.00	\$40,899.
The outcrop crosses the extreme southern end of this tract, the seam dipping toward the northwest at an angle of from 25 to 30 degrees. The tract is estimated to be entirely underlain with workable Lehigh coal, having an average thickness of 4 ft. 6 in. The Chicago, Rock Island & Pacific Railroad crosses this tract.				
31	Lots 1, 2, 3 & 4; S2 of NE4; S2; S2 of NW4 of Sec. 4 and SE4 of NE4; E2 of SE4 of Sec. 5 and NE4 of NE4 of Sec. 8 and NW4 of NE4; N2 of NW4 of Sec. 9, Twp. 1 N., R. 11 E. and SE4 of SE4 of Sec. 33, Twp. 2 N., R. 11 E.	953	\$45.00	\$42,885.00
The coal underlying this tract occurs under about the same conditions as the coal in tract 30, the outcrop crossing the southern boundary of the tract, the seam dipping toward the northwest at an angle of about 25 to 30 degrees. The seam is estimated to have an average thickness of about 4 ft. 6 in. of clean coal. The Chicago, Rock Island & Pacific Railroad crosses this tract.				
32	(Parcel 1) Lots 1, 2, 3 and 4; S2 of N2 N2 of SW4 of Sec. 3, Twp. 1 N., R. 11 E. and S2 of NE4; SE4; S2 of SW4; NE4 of SW4 of Sec. 34, Twp. 2 N., R. 11 E.	753.36	\$45.00	\$33,901.20
The Lehigh seam underlying this tract occurs under about the same conditions as in tract 31, the outcrop crossing the southwest corner dipping toward the northwest at an angle of about 25 to 30 degrees. The coal is estimated to have an average thickness of 4 ft. 6 in. The Chicago, Rock Island & Pacific Railroad crosses this tract.				
32	(Parcel 2) Lots 3 & 4 of Sec. 1, Twp. 1 N., R. 11 E.	79.58	\$45.00	\$3,581.10
The outcrop of the Lehigh seam crosses near the center of this tract, dipping toward the north at an angle of from 25 to 30 degrees. It is estimated that this tract is about one-half underlain with workable Lehigh coal having an average thickness of 4 ft. 6 in. The Ardmore branch of the Chicago, Rock Island & Pacific Railroad is located within half mile to the north of this tract.				
32A	All of Sec. 35, Twp. 2 N., R. 11 E. and Lots 1, 2, 3 & 4; S2 of N2 of Sec. 2, Twp. 1 N., R. 11 E.	956.52	\$35.00	\$33,478.20
The outcrop of the seam crosses the southern boundary and it is estimated that coal of a thickness of 4 ft. with a dip to the north of about 10 to 15 degrees underlies this tract. The Chicago, Rock Island & Pacific Railroad crosses this tract.				
32B	All of Sec. 36, Twp. 2 N., R. 11 E. and E2 of W2; Lots 1, 2, 3 & 4 of Sec. 31, Twp. 2 N., R. 12 E.	952.36	\$25.00	\$23,809.00
It is believed that this tract is underlain with the Lehigh seam, thickness sand dip of the seam being unknown but the tract lies in such condition that it is believed to be underlain with workable coal. The Chicago, Rock Island & Pacific Railroad crosses the northwest corner of this tract.				
32C	E2 of Sec. 1 and NE4; NE4 of NW4; NE4 of NW4 of Sec. 12, Twp. 1 N., R. 11 E. and E2 of W2; Lots 1, 2, 3 & 4 of Sec. 6 and NE4 of NW4; Lots 1 & 2 of Sec. 7, Twp. 1 N., R. 12 E.	945.76	\$25.00	\$23,644.00
The outcrop of the seam crosses the western boundary of this tract; the seam being estimated to have a thickness of 4 ft. and dipping to the northeast from 10 to 15 degrees. It is estimated that this entire tract except what is behind the crop line is underlain with workable coal. The Chicago, Rock Island & Pacific Railroad is about one and a half miles west of this tract.				

Lehigh-Ardmore District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
D	S2 of N2; N2 of SW4; SE4 of Sec. 11 and S2 of NW4; SW4 of Sec. 12 and NW4 of Sec. 13 and NE4 of Sec. 14, Twp. 1 N., R. 11 E.	960	\$40.00	\$38,400.00
The coal seam outcrops on the northern part of this tract. In 1908 the Government sunk a diamond drill hole in the SE4 of the NE4 of section 12 in this tract to a total depth of 467 ft. 130 ft. the drill penetrated 6 in. of coal; at 136 ft; 1 ft. 6 in. of coal; at 215 ft., 1 ft. of coal, and at 371 ft. 6 in. of coal. Although the results of this drilling do not indicate coal at that particular point, it is believed to be due more to a fault in the seam rather than the non-existence of coal, for the reason that workable coal occurs on leased land adjoining this tract on the west and it is, therefore, believed that workable coal underlies this tract, but by reason of results of the drill hole, a lower value has been indicated for the coal rights. The Chicago, Rock Island & Pacific Railroad is located about 2 miles west of this tract.				
	E2 of SE4; E2 of W2 of SE4 of Sec. 19 and SW4 of Sec. 20 and W2 of Sec. 29 and E2 of E2; E2 of W2 of NE4; W2 of SE4 of Sec. 30 and N2 of N2 of NE4 of Sec. 31 and N2 of N2 of NW4 of Sec. 32, Twp. 1 N., R. 11 E.	960	\$60.00	\$57,600.00
The Lehigh seam entirely underlies this tract, dipping toward the southeast at 10 degrees; the coal in the northwest corner being estimated to lie at a depth of about 800 ft. with an average thickness of 4 ft. 8 in. Leased land adjoins this tract on the north and southwest and the existence of coal in workable quantities has been demonstrated on these leased lands. The Missouri, Kansas & Texas Ry. is located on leased land to the west of this tract.				
	S2 of N2 of NE4; S2 of NE4; SE4 of Sec. 31 and E2; SW4; S2 of NW4; S2 of N2 of NW4 of Sec. 32, Twp. 1 N., R. 11 E. and Lot 1 of Sec. 5, Twp. 1 S., R. 11 E.	924.43	\$40.00	\$36,977.20
It is believed the Lehigh seam underlies this tract under the same conditions as in tract 3 except that the coal is at a greater depth, having an estimated average thickness of 4 ft. 8 in. with a dip of about 12 degrees. The Missouri, Kansas & Texas Railway is located west on adjoining leased land.				
	E2 of SW4 of Sec. 16 and SE4 of Sec. 20 and E2 of NW4; SW4 of NW4; SW4 of Sec. 21, Twp. 1 N., R. 11 E.	520	\$60.00	\$31,200.00
The outcrop of the Lehigh seam crosses the northwest corner of this tract dipping to the south at an angle of about 10 degrees, with an average thickness of about 4 ft. This tract adjoins on the west leased land on which workable coal has been demonstrated to occur by mine operations. A branch of the Missouri, Kansas & Texas Railway crosses land adjacent to this tract.				
5B	N2 of SW4 of NW4 of Sec. 16 & N2 of SE4 of NE4 of Sec. 17 1 N., R. 11 E.	40	\$60.00	\$ 2,400.00
The Lehigh seam underlies this tract which is estimated to be about 4 ft. thick, dipping southeast from 25 to 30 degrees; the outcrop being in the northern part of the tract. A spur of the Missouri, Kansas & Texas Railway is within one-half mile of this tract.				
36	All of Sec. 28 and E2 of Sec. 29, Twp. 1 N., R. 11 E.	960	\$50.00	\$48,000.00
The Lehigh seam underlies this tract and is estimated to be at a depth of 1200 ft. near the north side having an average thickness of 4 ft. and dip of about 10 degrees. The Missouri, Kansas & Texas Railway is adjacent of this tract on the west.				
37	SW4 of SE4; S2 of SW4 of Sec. 15 and S2 of NE4; SE4; SE4 of NW4 of Sec. 16 and E2 of Sec. 21 and W2 of NE4; NW4 of Sec. 22, Twp. 1 N., R. 11 E.	960	\$50.00	\$48,000.00
The outcrop of the Lehigh seam occurs near the northern boundary of this tract being estimated to have an average thickness of 4 ft. with a dip of about 10 degrees. The entire tract is estimated to be underlain with workable coal. The Missouri, Kansas & Texas Railway is located on leased land to the west of this tract.				

Lehigh-Ardmore District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
38	S2 of Sec. 22 and All of Sec. 27, Twp. 1 N., R. 11 E.	960	\$50.00	\$48,000.00
	This tract is entirely underlaid with the Lehigh seam and is estimated to lie at a depth of 1200 ft. in the north end. It is considered the coal has an average thickness of 4 ft. with a dip toward the south of about 10 degrees, and is all workable. The Missouri, Kansas Texas Railway is located to the west on leased land.			
39	SW4 of Sec. 13 and SE4; S2 of SW4 of Sec. 14 and SE4 of SE4 of Sec. 15 and E2 of NE4 of Sec. 22 and N2 of Sec. 23 and N2 of NW4; SW4 of NW4 of Sec. 24, Twp. 1 N., R. 11 E.	960	\$50.00	\$48,000.00
	This tract is entirely underlaid with workable Lehigh coal which lies at a depth of about 900 ft. in the northwest corner averaging 4 ft. 8 in. thick, and dipping toward the south at an angle from 8 to 16 degrees. The Missouri, Kansas & Texas Railway is located west of this tract.			
40	S2 of Sec. 23 and All of Sec. 26, Twp. 1 N., R. 11 E.	960	\$35.00	\$33,600.00
	This tract is estimated to lie near the central part of the Lehigh basin and is entirely underlaid with the Lehigh seam which is estimated to lie at a depth of 1200 ft. in the north end of this tract. The thickness and dip of the coal being estimated to be about the same as in tract 39. The Missouri, Kansas & Texas Railway is located to the west of this tract.			
41	E2 of Sec. 13 and NE4 of Sec. 24, Twp. 1 N., R. 11 E.; E2 of W2; Lots 1, 2, 3 & 4 of Sec. 18 and E2 of NW4; Lots 1 & 2 of Sec. 19, Twp. 1 N., R. 12 E.	944.69	\$35.00	\$33,064.15
	This tract lies across the central part of the coal basin. It is estimated that in the northwest corner the Lehigh seam lies at a depth of about 600 ft. with a dip toward the southeast of about 10 degrees. Two drill holes sunk in this tract by the Southwestern Development Company some years ago, one in the NE4 of the SE4 of Section 11 to a depth of 250 ft. showed at 76 ft., 1 ft. of coal, and at 150 ft., 1 ft. 6 in. of bone coal; in the other hole at 128 ft., 6 in. of coal and sulphur and at 218 ft., 2 ft. of bone coal. Developments on leased land a comparatively short distance from this tract, however, indicate this tract to be underlaid with workable coal, but in view of the results of the two drill holes, a lower value has been placed for coal on this tract than would have been otherwise.			
42	S2; SE4 of NW4 of Sec. 24 and N2 of SW4 of SW4; N2 of SW4 of Sec. 25, Twp. 1 N., R. 11 E. and Lots 3 & 4 of Sec. 19 and Lots 1 & 2 of Sec. 30, Twp. 1 N., R. 12 E.	949.54	\$35.00	\$33,233.90
	This tract lies in the central part of the Lehigh basin. The seam being estimated to be at a depth of 1000 to 1200 ft. in the northwest corner. It is estimated that this tract contains coal 4 ft. 8 in. thick, with a dip to the southeast of about 10 degrees. The Missouri, Kansas & Texas Railway is located to the west of this tract.			
43	SE4 of NE4; SE4; S2 of SW4; NE4 of SW4 of Sec. 25, Twp. 2 N., R. 11 E. and E2; E2 of W2; Lots 1, 2, 3 & 4 of Sec. 30, Twp. 2 N., R. 12 E.	952.76	\$10.00	\$ 9,527.60
44	S2 of SE4 of Sec. 20 and W2 of SW4; W2 of W2 of Sec. 28 and All of Sec. 29, Twp. 2 N., R. 12 E.	960	\$10.00	\$ 9,600.00
47	NE4; N2 of SE4 of Sec. 31 and N2; N2 of S2 of Sec. 32 and N2 of SW4; NW4 of Sec. 33, Twp. 2 N., R. 12 E.	960	\$10.00	\$ 9,600.00
48	Lots 3 & 4; S2 of NW4; SW4 of Sec. 5 and Lots 1 & 2; S2 of NE4; SE4 of Sec. 6 and N2 of NE4 of Sec. 7 and N2 of NW4 of Sec. 8, Twp. 1 N., R. 12 E. and S2 of SE4 of Sec. 31 and S2 of SW4 of Sec. 32, Twp. 2 N., R. 12 E.	954.70	\$10.00	\$ 9,547.00

Lehigh-Ardmore District, Unleased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
49	SW4; S2 of NW4; Lots 3 and 4 of Sec. 4 and Lots 1 and 2; S2 of NE4; SE4 of Sec. 5 and N2 of NE4 of Sec. 8 and N2 of NW4 of Sec. 9, Twp. 1 N., R. 12 E., and S2 of SE4 of Sec. 32 and S2 of SW4 of Sec. 33, Twp. 2 N., R. 12 E.	953.58	\$10.00	\$ 9,535.80
	These tracts lie upon the northwest side of the Coalgate anticline. The Lehigh seam is estimated to be at a depth of from 600 to 800 ft. on all of these tracts. A drill hole sunk by the Southwestern Development Company some years ago on tracts 32-B and 32-C, and a Government diamond drill hole sunk in the west part of tract 47 near the center of Section 31, showed the coal to be faulty and mixed with bone, ranging in thickness from 3 in. to 2 ft. 3 in. The best showing in any of the holes being on tract 32-C in the NW4 of the SW4 of Section 6 which showed at 345 ft., 6 in. of coal, 1 ft. 3 in. of bone coal, 2 ft. 3 in. of coal, and 1 ft. of fire clay. It is believed that this bone coal will not be everywhere present, and therefore, the entire five tracts should not be condemned on the evidence of a single drill hole or even two drill holes; however, under all circumstances a nominal value has been indicated for all the coal rights under these tracts. The Chicago, Rock Island & Pacific Railroad crosses the northwest corner of tract 43 and is west of the other tracts.			
45	SE4; E2 of SW4 of Sec. 21 and W2 of SW4; SW4 of NW4 of Sec. 27 and E2; E2 of W2 of Sec. 28 and N2 of NE4 of Sec. 33 and NW4 of NW4 of Sec. 34, Twp. 2 N., R. 12 E.	960	\$10.00	\$ 9,600.00
46	NW4 of SE4; S2 of SE4; SW4 of Sec. 22 and E2; E2 of W2; NW4 of NW4 of Sec. 27 and N2 of NE4; NE4 of NW4 of Sec. 34, Twp. 2 N., R. 12 E.	920	\$10.00	\$ 9,200.00
50	W2 of SW4; SW4 of NW4; Lot 4 of Sec. 3 and Lots 1 and 2; S2 of NE4; SE4 of Sec. 4 and N2 of NE4 of Sec. 9 and NW4 of NW4 of Sec. 10, Twp. 1 N., R. 12 E., and S2 of NE4; SE4 of Sec. 33 and W2 of SW4; SW4 of NW4 of Sec. 34, Twp. 2 N., R. 12 E.	953.24	\$10.00	\$ 9,532.40
51	Lots 1, 2 & 3; S2 of NE4; W2 of SE4; E2 of SW4; SE4 of NW4 of Sec. 3 and E2 of NW4 of Sec. 10, Twp. 1 N., R. 12 E. and S2 of NE4; SE4; E2 of SW4; SE4 of NW4 of Sec. 34, Twp. 2 N., R. 12 E.	833.88	\$10.00	\$ 8,338.80
52	SE4 of Sec. 12, Twp. 1 N., R. 11 E. and S2 of NE4; SE4; E2 of SW4; Lots 3 & 4; SE4 of NW4 of Sec. 7 and SW4 of NE4; W2 of SE4; SW4; S2 of NW4 of Sec. 8, Twp. 1 N., R. 12 E.	954.86	\$10.00	\$ 9,548.60
53	SE4 of NE4; E2 of SE4 of Sec. 8 and S2 of N2; S2 of Sec. 9 and NW4 of SW4; SW4 of NW4 of Sec. 10 and NW4 of NE4; NW4 of Sec. 16 and E2 of NE4 of Sec. 17, Twp. 1 N., R. 12 E.	960	\$10.00	\$ 9,600.00
54	E2 of SE4; W2 of E2; W2 of Sec. 17 and E2 of Sec. 18 and NW4 of NE4; NE4 of NW4 of Sec. 20, Twp. 1 N., R. 12 E.	960	\$10.00	\$ 9,600.00
55	E2; E2 of SW4 of Sec. 19 and SE4 of NW4; E2 of SW4; W2 of W2 of Sec. 20 and NW4 of NW4 of Sec. 29 and NE4; E2 of NW4 of Sec. 30, Twp. 1 N., R. 12 E.	960	\$10.00	\$ 9,600.00

Very little data is available with reference to the condition of the coal in these tracts, as there are no outcrops and no drilling records to prove the existence of coal in workable quan-

ties; however, oil wells recently drilled near these tracts have shown the presence of seams. Therefore, a nominal value has been indicated for any and all coal rights existing under these tracts. The Chicago, Rock Island & Pacific Railway is located west of these about 3 miles.

SEGREGATED ASPHALT DEPOSITS.

Choctaw and Chickasaw Nations, Oklahoma.

Mr. Wm. Cameron, United States Supervisor of Mines, did not include the segregated asphalt deposits in the Choctaw and Chickasaw Nations, Oklahoma, in his appraisalment of the law providing for appraisalment of coal deposits only.

Mr. Joseph A. Taff, Geologist, United States Geological Survey, in his report of 1904, segregated 3 unleased asphalt tracts in the Chickasaw Nation, which deposits, under Section the Act of Congress approved February 19, 1912, providing for the sale of the surface of segregated lands, were sold with the surface, leaving at the present time the asphalt deposit of only one cancelled leased tract in the Choctaw Nation, and five tracts in the Chickasaw Nation.

Mr. Taff stated in his report of 1904:

"Conditions governing the location of asphalt lands are different from those relating to coal. Coal is a stratified deposit formed originally with the deposition of the rocks. It is simply a rock bed, and usually runs parallel and is as extensive as the ordinary rock bed with which it is deposited. Not so with bitumen or asphalt deposits. They either permeate irregularly a mass or beds stratified and porous or follow fissures where the stratified rocks have cleft. There is no means to determine how far the rock conditions which admit the presence of the bitumen or asphalt may contain beneath the surface or how such deposits may extend if the conditions be favorable except by the use of the prospecting drill or by excavation. In any case it is not reliable to select asphalt lands for sale which extend beyond deposits actually proved either by natural or artificial exposure to be of commercial value, neither would it be just to the purchaser of such lands.

"There are two classes of asphalt deposits in the Choctaw and Chickasaw Nations. The most extensive is properly a bitumen or asphaltite permeating porous sandstone, limestone, and conglomerate, and when extracted has a semiliquid or viscous consistency. These deposits are considered to be exposed petroleum pools or exudations from such pools from which the lighter oils have escaped by near approach to the surface, leaving the heavy asphaltum base.

"The second and less extensive class of asphalt deposits in the Choctaw and Chickasaw Nations is a solid resembling a high grade coal. It fills fissures where the rock walls have been separated from a raction of an inch to rarely 25 feet, and extends nearly vertically into the earth. These deposits are practically free from any foreign substance, and may be mined in the same manner as coal."

The segregated leased tracts in the Chickasaw Nation remaining unsold are of the first class of asphalt described by Mr. Taff, and the segregated tract in the Choctaw Nation under the second class described by him, consisting of one tract of 960 acres formerly leased to the Choctaw Asphalt Company, but which lease was cancelled October 30, 1917, and is now unleased.

We have viewed the leased tracts in the Chickasaw Nation and examined the asphalt outcropping thereon, the seams varying in thickness from a few feet to 300 feet, and in dip from 25 to 90 degrees. Asphalt deposits are extensive and abundant in Love, Carter, Murray and Johnston Counties, on land outside of the segregated area, in most instances all at a considerable distance from railroads, and as asphalt is contained in rock formation, there have been some quarry mining operations in some localities to a small extent. The asphalt mining operations have apparently not proven successful, as we are advised that operations have been discontinued under existing leases on segregated land even after the installation of considerable equipment. A few mines are being operated on allotted land to a small extent, the asphalt mined therefrom is used largely for local purposes.

We are advised that a tract of 460 acres of allotted land, not included in the segregation, in Sections 2 and 3, Township 3 S., Range 1 W., sold about one year ago for \$51,000.00 including both surface and asphalt deposits, the surface being valued at about \$30.00 per acre. We are informed an oil well was subsequently drilled on such tract to a depth of 1,100 feet on the asphalt seam, which showed the asphalt deposit the entire depth, being even of better quality at the bottom of the drill hole than at the surface, but no asphalt has been mined on this tract. In view of the fact that a well was drilled for oil but not asphalt has been mined it would appear that the price paid for this tract was for oil prospects rather than for the asphalt deposits.

On account of the small number and their widely separated locations, no maps have been prepared of the segregated asphalt tracts. However, these tracts from their legal description can be located on any township map of Oklahoma.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
1	SE4 of NE4; E2 of SE4; W2 of E2 of Sec. 16; NE4; N2 of SE4; SW4 of SE4; SE4 of SW4 of Sec. 21; W2 of NE4; E2 of W2; W2 of SW4 of Sec. 28; SE4 of SE4 of Sec. 29, Twp. 1 S., R. 15 E.	960	\$10.00	\$9,600.00

Located about 12 miles west of Moyer, Pushmataha County, Oklahoma, on the St. Louis-San Francisco Railroad, to which point the asphalt heretofore mined has been delivered by wagon transportation. This tract formerly was under lease to the Choctaw Asphalt Company, approved by the Department March 2, 1902; lease cancelled October 30, 1917. The asphalt occurs as lenticular bodies in fissure veins, dipping at an angle of about 60 to 70 degrees. The mineral resembles bituminous coal in appearance and was mined until about 2 years ago when mining operations were suspended. The product mined was shipped to various manufacturing points where it was used in the manufacture of roofing material.

SCHEDULE OF APPRAISEMENT SEGREGATED LEASED COAL DEPOSITS.

McAlester District (North Map) Choctaw Nation, Oklahoma.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
4A	Lots 3 and 4; S2 of NW4; W2 of SW4 of Sec. 3 and Lot 1; SE4 of NE4; SE4; SE4 of SW4 of Sec. 4 and N2; NE4 of SW4; NW4 of SE4 of Sec. 9 and NW4 of NW4 of Sec. 10, Twp. 4 N., R. 16 E.	959.76	\$25.00	\$23,994.00

Craig Coal & Mining Company, Lease No. 1. Located on the Chicago, Rock Island & Pacific Railway. Lease expires August 20, 1931. About 100 acres is located behind the coal outcrop and 98.76 acres mined out, leaving 761 acres underlaid with the McAlester seam 3 feet thick, with a dip of about 23 degrees. This tract also contains the Hartshorne seam but by reason of its estimated great depth it is not included in this appraisalment.

In 1908 Mr. William Cameron, United States Supervisor of Mines, reported (Bolan-Darnell Coal Company's Lease No. 7) 100 acres behind the crop of the McAlester seam and 65 acres mined out leaving 795 acres of workable coal which he valued at \$30 per acre or a total of \$23,850.00 and also stated that the tract contained the Hartshorne seam but on account of the depth was not included in his estimate.

It is believed the present fair value of the coal rights is indicated in the above schedule.

4B	E2 of SW4 of Sec. 3, and SE4 of SW4; SW4 of SW4; E2 of SE4 of Sec. 9, and E2 of NW4; SW4 of NW4; S2 of Sec. 10, and N2 of N2 of Sec. 15 and N2 of NE4; N2 of NW4 of Sec. 16, Twp. 4 N., R. 16 E.	960	\$52.00	\$49,920.00
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Craig Coal & Mining Company, Lease No. 2. Located on the Chicago, Rock Island & Pacific Railway. Lease expires September 16, 1932. This tract is underlaid with two seams, namely, the McAlester and Hartshorne. About 240 acres is located behind the coal outcrop of the McAlester seam, leaving 720 acres 3 feet thick, with a dip of about 22 degrees; about 160 acres is located behind the coal outcrop of the Hartshorne seam, leaving 800 acres 4 feet thick, with a dip of 22 degrees.

In 1908, Mr. Cameron reported (Standard Coal Company) 240 acres behind the crop of the McAlester seam leaving 720 acres of workable coal and 160 acres behind the crop of the Hartshorne seam, leaving 720 acres of workable coal or a total of 1,440 acres which he valued at \$30 per acre or a total of \$43,200.00.

Mr. Cameron was apparently in error in computing the remaining area of the Hartshorne seam and since the date of his report considerable coal has been mined from the McAlester seam, therefore, the present fair value of the coal rights under this tract is indicated in the above schedule.

McAlester District (North Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
4C	S2 of Sec. 2 and SE4 of Sec. 3 and NE4 of Sec. 10 and N2 of Sec. 11, Twp. 4 N., R. 16 E.	960	\$61.00	\$ 58,560.

Hailey-Ola Coal Company, Lease No. 2.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires May 15, 1932. The tract contains two seams of coal, namely, the Hartshorne seam 5 feet thick, with a dip of about 30 degrees; and the McAlester seam 3 feet thick, with a dip of about 23 degrees. About 1,000 acres is located behind the coal outcrop and 95 acres mined out, leaving 765 acres underlying with the Hartshorne seam. Of the McAlester seam 660 acres is located behind the coal outcrop and 10 acres mined out, leaving 290 acres.

In 1908 Mr. Cameron reported 160 acres behind the crop of the Hartshorne seam and 110 acres mined out leaving 782 acres; and none behind the crop of the McAlester seam, or mined out, but that 280 acres was underlaid with such seam of workable coal making a total of 1,062 acres which he valued at \$55 per acre or a total of \$58,410.

It has been ascertained by investigation, however, that the present area behind the crop of each seam and the area underlaid with the coal of each seam is as above stated; and the present fair value of the coal rights under this tract is indicated in the above schedule.

7A	Lots 2, 3 and 4; S2 of NW4; SW4 of NE4 of Sec. 1; Lots 1, 2 and 3; S2 of NE4; SE4 of NW4; NE4 of SW4; N2 of SE4 of Sec. 2, Twp. 5 N., R. 14 E.; SE4 of SW4; S2 of SE4 of Sec. 35 and SW4 and W2 of SE4 of Sec. 36, Twp. 6 N., R. 14 E.	956.81	\$31.00	\$29,661.11
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Samples Coal & Mining Company, Lease No. 1.

Located on the Chicago, Rock Island & Pacific Railroad, and also on a spur one mile from the main line of the Missouri, Kansas & Texas Railway. Lease expires November 2, 1929. About 80 acres is located behind the coal outcrop and 184.81 acres mined out, leaving 635.19 acres underlaid with the McAlester seam 4 ft. thick, with a dip of about 20 degrees. The Hartshorne seam also underlies this tract, but on account of its steep dip and great depth it is not considered as having any commercial value at this time and, therefore, it is not included in this appraisalment.

In 1908 Mr. Cameron reported 200 acres behind the crop of the McAlester seam and 110 acres mined out, leaving 649 acres of workable coal which he valued at \$35 per acre or a total of \$22,715. He also stated that the lease contained the Hartshorne coal, but on account of the depth was not included in his estimate.

Investigation has demonstrated, however, that Mr. Cameron had been misinformed relative to the area behind the crop and since his report more acreage has been mined; therefore the present fair value of the coal rights in this tract is indicated in the above schedule.

7B	Lot 4; SW4 of NW4; NW4 of SW4 of Sec. 2, All of Sec. 3, Twp. 5 N., R. 14 E.; S2 of S2 of Sec. 34; SW4 of SW4 of Sec. 35, Twp. 6 N., R. 14 E.	954.44	\$40.00	\$38,177.60
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McAlester-Choctaw Coal Company, Lease No. 4.

Located on the Chicago, Rock Island & Pacific Railroad and also a three-mile spur of the Missouri, Kansas & Texas Railway. Lease expires March 15, 1929. This tract is practically underlaid with two seams; namely: the McAlester seam 4 ft. thick, with a dip of about 45 degrees; and the Hartshorne 3 ft. 6 in. thick, with a dip of about 16 degrees. About 220 acres is located behind the crop of the McAlester seam and 16.44 acres behind the crop of the Hartshorne seam, leaving 734.44 acres underlaid with McAlester, and 938 acres with the Hartshorne seam. On account of the depth of the Hartshorne seam, the lower half of the tract of such seam undoubtedly cannot be mined out for a considerable time, which fact is considered in fixing the value of the coal rights underlying this entire tract as indicated in the above schedule.

In 1908 Mr. Cameron reported (John F. McMurray Lease No. 4) these two seams as having the same thickness and dip; 300 acres behind the crop of the McAlester seam; none behind the crop of the Hartshorne seam; 16 acres of each seam mined out, leaving 644 acres of the McAlester and 400 acres of the Hartshorne seam, making a total of 1044 acres of workable coal which he valued at \$35 per acre or a total of \$36,540.

McAlester District (North Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
7C	Lots 1, 2, 3 and 4; S2 of N2; N2 of S2 of Sec. 4; Lots 1 and 2; S2 of NE4 N2 of SE4 of Sec. 5, Twp. 5 N., R. 14 E.; S2 of SW4; SE4; Sec. 33, Twp. 6 N., R. 14 E.	953.23	\$10.00	\$ 9,532.30

Great Western Coal & Coke Company, Lease No. 1.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires August 14, 1930. About 568 acres is located behind the coal outcrop and 27.23 acres mined out, leaving 360 acres underlaid with the McAlester seam 4 feet, 9 inches thick, with a dip of about 53 degrees. The outcrop of the Hartshorne also shows on a very small portion of the tract in the northeast corner, but is not considered in the appraisalment.

In 1908 Mr. Cameron reported 200 acres behind the crop of the McAlester seam and also reported said tract as containing the Hartshorne seam 4 ft. thick, with a dip of about 11 degrees, none of which was behind the crop, and of each seam he reported 20 acres mined out, leaving 370 acres of the Hartshorne seam, making a total of 740 acres which he valued at \$25 per acre or a total of \$18,500 and stated that on account of the depth, the lower half of both seams were eliminated from his estimate.

It is believed, however, that all of the remaining unmined McAlester seam, notwithstanding its steep dip, can be mined out as the adjoining tract shows the dip to flatten at a lower depth, but it is not considered that any of the Hartshorne seam is workable.

7D	All of Sec. 7; NE4; E2 of NW4 and Lots 1 and 2; Sec. 18, Twp. 5 N., R. 14 E.	965.41	\$25.00	\$24,135.25
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John F. McMurray, Lease No. 3.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires March 15, 1929. About 240 acres is located behind the coal outcrop, leaving 725.41 acres underlaid with the McAlester seam 4 feet thick, with a dip of about 45 degrees. By reason of such dip it is doubtful if all of the coal in this tract can be profitably mined for a considerable time, therefore, the coal rights under this entire tract are placed at a lower average value per acre.

In 1908 Mr. Cameron reported 240 acres behind the crop and no coal mined out, but on account of the depth he eliminated 80 acres and considered there was only 640 acres of workable coal which he valued at \$35 per acre or a total of \$22,400.00.

7E	S2 of S2 of Sec. 5; all of Sec. 8; N2 of N2 of Sec. 17, Twp. 5 N., R. 14 E.	960	\$25.00	\$24,000.00
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John F. McMurray, Lease No. 2.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires March 15, 1929. This tract is partially underlaid with two seams of coal, namely, the McAlester and Secor seams. About 80 acres is located behind the coal outcrop of the McAlester seam and about 760 acres behind the Secor seam, leaving about 880 acres underlaid with the McAlester seam 4 feet thick, with a dip of about 45 degrees, and about 200 acres underlaid with the Secor seam 2 feet, 6 inches thick, with a dip of about 15 degrees.

In 1908 Mr. Cameron reported 80 acres behind the crop of the McAlester seam, but on account of the depth he eliminated one-half of the acreage, leaving 440 acres of the McAlester seam; and 240 acres of the Secor seam or a total of 680 acres of workable coal which he valued at \$35 per acre or a total of \$23,800.00.

Under existing conditions, it is believed that a fair valuation of all the coal rights in this tract is indicated in the above schedule.

7F	S2 of S2 of Sec. 4; all of Sec. 9; N2 of N2 of Sec. 16, Twp. 5 N., R. 14 E.	960	\$40.00	\$38,400.00
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John F. McMurray, Lease No. 1.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires March 15, 1929. None of the area is located behind the McAlester seam but about 460 acres is located behind the Secor seam. This tract is, therefore, partly underlaid with two seams, namely, the McAlester and the Secor. The McAlester seam being 4 feet thick, underlying all of the tract but portions very deep having a dip of about 45 degrees; and the Secor seam 2 feet, 6 inches thick, with a dip of about 15 degrees. By reason of the steep dip of the McAlester seam it is considered doubtful if all can be profitably mined for a considerable time, which fact is taken into consideration in fixing the appraisalment and it is believed the present fair value of all the coal rights underlying this tract is indicated in the above schedule.

In 1908 Mr. Cameron made a similar report concerning these two seams, but stated that on account of the depth, one-half of the acreage of the McAlester seam was eliminated and he considered 480 acres of the McAlester and 480 acres of the Secor seam was workable, making a total of 960 acres which he valued at \$35 per acre or a total of \$33,600.00.

McAlester District (North Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
15A	Lot 1; SE4 of NE4; SE4; SE4 of SW4 of Sec. 1, Twp. 5 N., R. 14 E.; SE4 of NE4 and E2 of SE4 of Sec. 36, Twp. 6 N., R. 14 E.; SE4 of NW4; E2 of SW4; Lots 2, 3 and 4 of Sec. 31, Twp. 6 N., R. 15 E.; and E2 of W2; Lots 4, 5, 6 and 7 of Sec. 6, Twp. 5 N., R. 15 E.	968.21	\$24.00	\$23,228.40

North McAlester Coal Company, Lease No. 1.

Located on the Missouri, Kansas & Texas Railway. Lease expires July 3, 1929. About 80 acres is located behind the coal outcrop and 166.21 acres mined out, leaving 166.21 acres underlaid with the McAlester seam 4 feet thick, with a dip of about 20 degrees. This tract is also underlaid with the Hartshorne seam but on account of its estimated great depth is not included in this appraisalment.

In 1908 Mr. Cameron reported (Bolen-Darell Lease No. 3) 80 acres behind the crop 62 acres mined out leaving 611 acres of workable coal which he valued at \$40 per acre a total of \$24,440.00 and also stated that this tract contained the Hartshorne coal seam on account of its depth was not included in his estimate.

22A	All of Sec. 3 and N2 of Sec. 10, Twp. 5 N., R. 15 E.	954.68	\$ 5.00	\$ 4,773.40
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Osage Coal & Mining Company Lease No. 5.

Located on the Missouri, Kansas & Texas Railway. Lease expires April 5, 1931. About 425 acres is located behind the McAlester seam, but all of the coal in the McAlester seam located in this tract has been mined out, leaving only coal pillars in the worked out area which can finally be recovered and is considered worth \$5 per acre. While it is believed that Hartshorne extends under this lease it is of such depth as to be practically valueless at present time and is not considered in this appraisalment, therefore, the appraisalment indicated in the above schedule is believed to represent the fair value of all coal rights in this tract.

In 1908 Mr. Cameron reported the McAlester seam if extending under this tract to be no value at that time and that all of the Hartshorne seam had been mined out except 40 acres which he valued at \$30 per acre or a total of \$1,200.

Mr. Cameron was in error in stating the Hartshorne seam had been mined out, he evidently intended to refer to the McAlester seam in view of the fact that it is such seam that was mined out.

22B	S2 of Sec. 33, Twp. 6 N., R. 15 E. All of Sec. 4, Twp. 5 N., R. 15 E.	952.44	\$14.00	\$13,334.16
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Osage Coal & Mining Company, Lease No. 3.

Located on the Missouri, Kansas & Texas Railway. Lease expires April 5, 1931. The remarks with reference to the Hartshorne seam in the Osage Coal & Mining Company's Lease No. 1 also apply to this tract and which by reason of its depth is eliminated from the appraisalment. About 160 acres is located behind the crop of the McAlester seam and 692.44 acres mined out, leaving 100 acres underlaid with the McAlester seam 4 ft. thick, with a dip of about 7 degrees.

In 1908 Mr. Cameron reported 150 acres behind the crop of the McAlester seam 568 acres mined out, leaving 242 acres of workable McAlester coal which he valued at \$30 per acre or a total of \$7,260, but he placed no value on the Hartshorne seam.

22C	E2 of Sec. 8 and all of Sec. 9, Twp. 5 N., R. 15 E.	960	\$53.00	\$50,880.00
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Osage Coal & Mining Company, Lease No. 4.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires April 5, 1931. This tract is underlaid with both the McAlester and Hartshorne seams. The remarks concerning the Hartshorne seam in Osage Coal & Mining Company's Lease No. 1 apply to this tract and it is entirely eliminated from the appraisalment. None of the area of this tract lies behind the crop of the McAlester seam, of which there has been 150 acres mined out, leaving 810 acres underlaid with the McAlester seam 4 ft. thick, with a dip of about 7 degrees.

In 1908 Mr. Cameron reported 62 acres mined out and 160 acres eliminated in extreme west edge of the lease on account of depth, leaving a balance of 738 acres of workable McAlester coal, which he valued at \$30 per acre or a total of \$22,140.

As there are recent mining operations on this tract which has demonstrated the coal to be of good quality and thickness, and but little mined out, it is, under existing conditions, considered of greater value at this time than indicated by Mr. Cameron.

McAlester District (North Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
22D	SW4; W2 of SE4 of Sec. 10; W2 of NE4 and NW4 of Sec. 15; N2 of Sec. 16; NE4 of Sec. 17, Twp. 5 N., R. 15 E.	960	\$25.00	\$24,000.00

Osage Coal & Mining Co. Lease No. 6.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires April 5, 1931. The remarks concerning the Hartshorne seam in Osage Coal & Mining Company's Lease No. 1 apply to this tract. About 140 acres is located behind the coal outcrop of the McAlester seam and 520 acres mined out, leaving 300 acres underlaid with the McAlester seam 4 ft. thick, with a dip of about 7 degrees.

In 1908 Mr. Cameron reported 100 acres behind the Hartshorne crop and 318 acres mined out, also 120 acres deducted on account of the depth in the southwest edge of the lease, leaving 322 acres of workable Hartshorne coal, which he valued at \$30 per acre or a total of \$9,660.

Mr. Cameron was in error with reference to the Hartshorne seam, as he evidently intended to refer to the McAlester seam.

It is believed the appraisalment as indicated in the above schedule represents the fair value of the coal rights in this tract.

23A	E2 of SE4 of Sec. 10 and all of Sec. 11; NW4; W2 of SW4 of Sec. 12; N2 of Sec. 14; E2 of NE4 of Sec. 15, Twp. 5 N., R. 15 E.	1360	\$27.00	\$36,720.00
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McAlester Coal & Coke Company, Lease No. 2.

Located on the Wilburton Branch of the Missouri, Kansas & Texas Railway. Lease expires December 19, 1929. About 80 acres is located behind the coal outcrop and 289 acres mined out, leaving 991 acres underlaid with the Hartshorne seam, 4 ft. 4 in. with a dip of 11 degrees.

In 1908 Mr. Cameron reported (McAlester Coal & Mining Company's Lease No. 2) 80 acres located behind the crop and 77 acres mined out, leaving 563 acres of workable coal which he valued at \$50 per acre or a total of \$28,150.

Since date of Mr. Cameron's report a larger area has been mined out; also the original lease contained 720 acres, but since date of his report 640 acres have been added to this lease, therefore, in view of the fact that some of the unmined coal is defective and some of it very deep it is believed that the fair present value of the coal rights under the entire tract is indicated by the above appraisalment.

23B	E2 of SW4; W2 of SE4; SE4 of SE4 of Sec. 12; N2; N2 of S2 of Sec. 13, Twp. 5 N., R. 15 E.	680	\$41.00	\$27,880.00
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McAlester Coal & Coke Company, Lease No. 1.

Located on the Missouri, Kansas & Texas Railway. Lease expires December 19, 1929. About 70 acres is located behind the coal outcrop and about 70 acres mined out, leaving 540 acres underlaid with Hartshorne seam 4 ft. thick, with a dip of about 9 degrees.

In 1908 Mr. Cameron reported 180 acres behind the crop and 87 acres mined out, leaving 413 acres of workable coal which he valued at \$50 per acre or a total of \$20,650.00.

It appears from investigation that Mr. Cameron's information was incorrect as to the area behind the crop and the present fair value of the coal rights under this tract is indicated in the above schedule.

30A	S2 of S2 of Sec. 32, Twp. 6 N., R. 16 E. All of Sec. 5 and N2 of N2 of Sec. 8, Twp. 5 N., R. 16 E.	955.28	\$25.00	\$23,882.00
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Central Coal & Lumber Company, Lease No. 2.

Located on the Wilburton Branch of the Missouri, Kansas & Texas Railway. Lease expires April 16, 1932. About 150 acres is located behind the coal outcrop and 90.28 acres has been mined out, leaving 715 acres underlaid with the McAlester seam about 2 ft. 10 in. thick, with a dip of about 10 degrees.

Remarks concerning the Hartshorne seam in Central Coal & Lumber Company's Lease No. 1 apply to this tract.

In 1908 Mr. Cameron reported 150 acres behind the crop and 26 acres mined out leaving 784 acres of workable coal which he valued at \$30 per acre or a total of \$23,520.

Since date of Mr. Cameron's report more acreage has been mined out.

McAlester District (North Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
30B	E2 of E2 of Sec. 1, Twp. 5 N., R. 15 E. and all of Sec. 6 and N2 of NE4; NE4 of NW4; Lot 1 of Sec. 7, Twp. 5 N., R. 16 E.	958.10	\$18.00	\$17,522
<p>Central Coal & Lumber Company, Lease No. 1. Located on the Wilburton Branch of the Missouri, Kansas & Texas Railway. Lease expires April 16, 1932. About 200 acres is located behind the coal outcrop of the McAlester seam; 290.10 acres mined out, leaving 468 acres underlaid with the McAlester seam 3 ft. thick, with a dip of about 13 degrees. Although the Hartshorne seam also underlies this tract it is considered of no value at this time on account of its great depth, therefore, the appraisalment as indicated in the above schedule is considered to be the present fair value of the rights underlying this tract. Mr. Cameron in 1908 reported 200 acres behind the crop and 274 acres mined out leaving 486 acres of workable coal which he valued at \$30 per acre or a total of \$14,580. Mr. Cameron was evidently misinformed as to the area behind the crop.</p>				
30F	W2 of Sec. 17 and all of Sec. 18 Twp. 5 N., R. 16 E.	960.60	\$23.00	\$22,092
<p>Indian Coal & Mining Company, Lease No. 1. Located on a two-mile spur of the Wilburton Branch of the Missouri, Kansas & Texas Railway. Lease expires March 15, 1929. About 330 acres is located behind the coal outcrop and 14.60 acres mined out, leaving 616 acres underlaid with the Hartshorne seam about 3 ft. thick with a dip of about 18 degrees. This tract embraces a lease formerly known as John F. McMurray Lease No. 5 and does not appear to be included in Mr. Cameron's report of 1908.</p>				
30H	S2 of NE4; SE4 of NW4; E2 of SW4; SE4 of Sec. 21 and SW4 of Sec. 22 and NW4; N2 of SW4 of Sec. 27 and NE4; E2 of NW4; N2 of SE4 of Sec. 28, Twp. 5 N., R. 16 E.	1080	\$23.00	\$24,840
<p>Milby and Dow Coal & Mining Company, Lease No. 6. Located on the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1930. About 120 acres is located behind the coal outcrop and about 233 acres mined out, leaving 108 acres underlaid with the McAlester seam 2 ft. 10 in. thick, with a dip of about 10 degrees. In 1908 Mr. Cameron reported 120 acres behind the crop and 108 acres mined out leaving 732 acres of workable coal which he valued at \$35 per acre or a total of \$25,620.00. Since the date of Mr. Cameron's report 120 acres additional has been added to this lease.</p>				
30J	W2 of SE4; of SE4 of SE4 of Sec. 22 and NW4 of NW4; S2 of NW4; SW4 of Sec. 26 & E2; S2 of SW4 of Sec. 27 & SE4 of SE4 of Sec. 28 & E2 of NE4 of Sec. 33 and N2; N2 of S2 of Sec. 34 and W2 of NW4 of Sec. 35, Twp. 5 N., R. 16 E.	1480	\$22.00	\$32,560
<p>Milby and Dow Coal & Mining Company, Lease No. 7. Located on the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1930. About 180 acres is located behind the coal outcrop and 350 acres mined out, leaving 950 acres underlaid with the McAlester seam 3 ft. thick, with a dip of from 10 to 12 degrees. In 1908 Mr. Cameron reported (Milby & Dow Lease No. 2) 180 acres behind the crop and 239 acres mined out leaving 541 acres of workable coal which he valued at \$35 per acre or a total of \$18,935. Since date of Mr. Cameron's report more acreage has been mined out and there has been added 520 acres to this lease.</p>				
30L	NE4 and E2 of NW4 and S2 of Sec. 35; and S2 of SE4 and SE4 of SW4 of Sec. 34, Township 5 N, R., 16 E; and Lots 3 and 4, and S2 of NW4 of Sec. 1; and, N2 of Sec. 2; and Lots 1 and 2; S2 of NE4 of Sec. 3, Twp. 4 N, R. 16 East	1329.73	\$32.00	\$42,558
<p>Hailey-Ola Coal Company, Lease No. 1 and additional land. Located on the Chicago, Rock Island & Pacific Railroad. Lease expires May 15, 1930. About 130 acres is located behind the coal output and 289.89 acres mined out, leaving 1299.</p>				

McAlester District (North Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
<p>acres underlaid with the McAlester and Hartshorne seams 4 ft. 9 in. thick, with a dip of about 13 degrees. In 1908 Mr. Cameron reported no area behind the crop and 158 acres mined out, leaving 682 acres of workable coal which he valued at \$55 per acre or a total of \$37,510.00. Mr. Cameron evidently was in error in reporting no area behind the crop and since the date of his report more acreage has been mined out.</p>				
33A	SW4 of SW4 of Sec. 5; S2 of SE4 of Sec. 6; N2 of NE4; NE4 of NW4; Lot 1 of Sec. 7 and N2 of N2 of Sec. 8, Twp. 5 N., R. 17 E.	639.30	\$52.00	\$33,243.00
<p>Union Coal Company, Lease No. 1. Located on the Wilburton Branch of the Missouri, Kansas & Texas Railway. Lease expires September 25, 1932. This lease is located in two separate tracts as indicated on the map and numbered 33-A, one tract containing 439.30 acres and the other containing 200 acres. None of the area of either of these tracts is located behind the coal outcrop. 34.30 acres has been mined from the tract containing 200 acres, but no coal has been mined from tract containing 439.30 acres, leaving 605 acres in both tracts underlaid with the Hartshorne seam 4 ft. thick, with a dip of from 26 to 40 degrees. This lease has been executed since date of Mr. Cameron's report of 1908.</p>				
25A	E2 of SW4; SE4 of Sec. 4 and N2 of NE4; NE4 of NW4 of Sec. 9, Twp. 5 N., R. 17 E.	360	\$40.00	\$14,400.00
<p>Pierce Coal Company, Lease No. 1. Located on the Wilburton Branch of the Missouri, Kansas & Texas Railway. Lease expires September 25, 1932. None of the area is located behind the coal outcrop and no coal has been mined, leaving 360 acres underlaid with the Hartshorne seam about 3 ft. 6 in. thick, with a dip of about 30 degrees. This lease has been executed since date of Mr. Cameron's report of 1908.</p>				
39A	NE4 of SW4; N2 of SE4; SE4 of NE4 of Sec. 35 and S2 of NW4; SW4 of NE4 of Sec. 36, Twp. 6 N., R. 14 E.	280	\$20.00	\$5,600.00
<p>Samples Coal & Mining Company, Lease No. 2. Located on a spur of the Missouri, Kansas & Texas Railway. Lease expires September 24, 1930. About 60 acres is located behind the coal outcrop and 30 acres mined out, leaving 190 acres underlaid with the Hartshorne seam 4 ft. thick, with a dip of about 42 degrees. In 1908 Mr. Cameron reported 100 acres behind the crop and 22 acres mined out, leaving 158 acres of workable coal which he valued at \$30 per acre or a total of \$4,740.00. Investigation has demonstrated that Mr. Cameron's information as to the area behind the crop was incorrect, and since that date more acreage has been mined out.</p>				
40A	E2 of Sec. 31 and all of Sec. 32, Twp. 6 N., R. 15 E.	960	\$15.00	\$14,400.00
<p>Osage Coal & Mining Company, Lease No. 1. Located on the Missouri, Kansas & Texas Railway. Lease expires April 5, 1931. This tract contains both the McAlester and Hartshorne seams, but on account of the estimated great depth of the Hartshorne seam such seam is not considered in the present valuation. About 260 acres is located behind the McAlester coal outcrop and 550 acres mined out, leaving 150 acres underlaid with the McAlester seam 4 ft. thick with a dip of about 9 degrees. Mr. Cameron in 1908 reported 240 acres behind the McAlester seam and 398 acres mined out leaving a balance of 322 acres which he valued at \$30 per acre or a total of \$9,660. Considering the good quality and accessibility of the McAlester coal in this tract it is believed the appraisalment indicated in the above schedule represents a fair value of the coal rights under this tract.</p>				
40B	All of Sec. 5; Lots 1 & 2; S2 of NE4; SE4 of Sec. 6, Twp. 5 N., R. 15 E.	954.88	\$50.00	\$47,744.00
<p>Osage Coal & Mining Company, Lease No. 2. Located on the Chicago, Rock Island & Pacific Railroad. Lease expires April 5, 1931. Although this tract is underlaid with both McAlester and Hartshorne seams, owing to the great depth of the latter seam the remarks concerning such seam in the Osage Coal & Mining Company's Lease No. 1 apply to this tract, and is, therefore, not considered in the appraisalment of this tract. None of the area in this lease is located behind the McAlester crop, but 160 acres is mined out, leaving 794.88 acres underlaid with the McAlester seam 4 ft. thick,</p>				

McAlester District (North Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Appraisalment Total
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with a dip of about 9 degrees, which is considered by reason of its good quality worth the appraisalment above indicated.

In 1908 Mr. Cameron reported none of the area behind the crop of the McAlester seam but 34 acres mined out and 120 acres eliminated on account of the depth of the seam in the southwest corner of the lease, leaving 806 acres of workable McAlester coal which he valued at \$30 per acre or a total of \$24,180.00, and did not include any of the Hartshorne seam in his estimate.

41A	S2 of SE4 of Sec. 23; S2 of S2 of Sec. 24 and N2; N2 of S2 of Sec. 25 and NE4; N2 of SE4 of Sec. 26, Twp. 5 N., R. 15 E.	960	\$50.00	\$48,000.00
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John F. McMurray, Lease No. 8.

Located on a two-mile spur of the Wilburton Branch of the Missouri, Kansas & Texas Railway. Lease expires March 15, 1929. This tract is entirely underlaid with two seams, namely, the McAlester seam 3 ft. 6 in. thick, and the Secor seam 2 ft. 6 in. thick, both with dip of about 13 degrees. A portion of the McAlester seam is faulty, and such fact has been taken into consideration in determining the value of the coal rights under this tract as indicated in the above schedule.

In 1908 Mr. Cameron reported this tract as containing two seams, the same thickness, and with a dip as above indicated, but considered that 960 acres of the McAlester seam and 240 acres of the Secor seam or a total of 1200 acres was workable coal, which he valued at \$40 per acre or a total of \$48,000.00.

41B	Lots 1, 2 & 3; S2 of NW4; SW4 of NE4; W2 of SE4 of SW4 of Sec. 1, Twp. 5 N., R. 15 E.; SE4; SE4 of SW4 of Sec. 36, Twp. 6 N., R. 15 E.; Lots 2, 3 & 4; SE4 of NW4; E2 of SW4 of Sec. 31, Twp. 6 N., R. 16 E.	919.46	\$15.00	\$13,791.90
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Osage Coal & Mining Company, Lease No. 7.

Located on the Missouri, Kansas & Texas Railway. Lease expires April 5, 1931. The remarks pertaining to the Hartshorne seam in Osage Coal & Mining Company's Lease No. 7 apply to this tract. About 440 acres is located behind the coal outcrop of the McAlester seam of which 180 acres is mined out, leaving 299.46 acres underlaid with the McAlester seam 3 ft. 6 in. with a dip of about 8 degrees.

In 1908 Mr. Cameron reported 468 acres located behind the Hartshorne outcrop, and 120 acres mined out, leaving 338 acres of workable Hartshorne coal which he valued at \$30 per acre or a total of \$10,140.00.

Mr. Cameron evidently intended to refer to the McAlester and not the Hartshorne seam therefore, it is believed the present fair value of the coal rights in this tract is indicated in the above schedule.

42A	S2 of NE4; SE4 of NW4; Lot 2; Lots 3 & 4; E2 of SW4 of Sec. 19 and S2 of NW4; SW4 of Sec. 20 and N2 to NE4; E2 of NW4; Lots 1 & 2 of Sec. 30, Twp. 6 N., R. 16 E.	961.60	\$23.00	\$22,116.80
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John F. McMurray, Lease No. 7.

Located about two miles from the Wilburton Branch of the Missouri, Kansas & Texas Railway. Lease expires March 15, 1929. It is estimated that two seams underlie this entire tract, namely, the McAlester 3 ft. 6 in. thick, and the Secor seam 2 ft. 6 in. thick, both with dip of about 13 degrees, none of which has been mined out. On account of the steep dip and evident great depth of a considerable portion of the McAlester seam it is very doubtful if any of such seam can be profitably mined for a considerable time, but it is believed all of the Secor seam can be mined. Such conditions have been considered in estimating the present fair value of the entire tract as indicated in the above schedule.

In 1908 Mr. Cameron reported the same seams, thickness and dip, and stated that on account of the depth he did not consider more than 400 acres of the McAlester seam and 240 acres of the Secor seam, or a total of 640 acres, was workable which he valued at \$35 per acre or a total of \$22,400.00.

While it is considered, as above stated, that more coal can be mined than indicated by Mr. Cameron, the value of the coal rights under the entire tract is estimated to be about the same as indicated by him.

McAlester District (North Map), Leased—Continued

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Appraisalment Total
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43A	SW4 of Sec. 3 and S2 of N2; S2 of Sec. 4 Twp. 5 N., R. 16 E.	640	\$40.00	\$25,600.00
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Carbon Coal Company, Lease No. 1.
Located on the Wilburton Branch of the Missouri, Kansas & Texas Railroad. Lease expires April 15, 1932. None of the acreage in this tract lies behind the outcrop and none has been mined, therefore, 640 acres is estimated to be underlaid with 4 ft. of the McAlester coal with a dip of about 15 to 20 degrees.
This lease has been executed since the date of Mr. Cameron's report of 1908.

SCHEDULE OF APPRAISEMENT OF SEGREGATED LEASED COAL DEPOSITS.

McAlester District (South Map) Choctaw Nation, Oklahoma.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Appraisalment Total
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49B	SW4 of NW4 of Sec. 15; S2 of NE4; SE4 of NW4; SW4; N2 of SE4 of Sec. 16; S2 of Sec. 17; N2 of Sec. 20; N2 of NW4 of Sec. 21, Twp. 3 N., R. 14 E.	1120	\$59.00	\$66,080.00
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McAlester-Edwards Coal Company, Lease No. 2.
Located on the Ardmore Branch of the Chicago, Rock Island & Pacific Railroad. Lease expires July 3, 1929. This tract contains two seams of coal; namely, the McAlester 4 ft. 6 in. thick, with a dip of about 20 degrees, and the Hartshorne 3 ft. 6 in. thick, with a dip of about 50 degrees. About 360 acres is located behind the crop and 110 acres mined out, leaving 650 acres underlaid with the McAlester seam; no area is located behind the coal outcrop of the Hartshorne and no coal mined out, leaving the entire tract underlaid with such seam but by reason of the depth of a considerable area, only 480 acres of this seam is considered workable under present conditions, the remainder of the acreage of this seam has no commercial value at the present time; all of which has been considered in fixing the value of the coal rights in this tract.

In 1908 Mr. Cameron reported 320 acres behind the crop and 16 acres mined out of the McAlester seam, leaving 624 acres of workable coal; he also reported no area behind the crop and none mined out of the Hartshorne seam, but he considered 480 acres of such seam together with 624 acres of the McAlester seam, or a total of 1104 acres of workable coal which he valued at \$60 per acre or a total of \$66,240.00.
Since Mr. Cameron's report 160 acres has been added to this lease.

52A	S2 of NW4 of NE4; N2 of SW4 of NE4; S2 of NE4 of NW4; NW4 of NW4; S2 of NW4 and N2 of NW4 of SW4 of Sec. 14 and NE4; E2 of NW4; N2 of NE4 of SE4; NW4 of SE4; N2 of SW4; SW4 of SW4 and N2 of SE4 of SW4 of Sec. 15, Twp. 3 N., R. 14 E.	640	\$46.25	\$29,800.00
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Oliver and Patterson lease.

This tract contains both the McAlester and Hartshorne seams. Adjoins the McAlester-Edwards lease on the east. The Government sunk a diamond drill hole about one-quarter mile from the northeast corner of the tract.

The Ardmore branch of the C., R. I. & P. R. R. crosses this tract.

53A	SE4; S2 of SE4 of NE4; E2 of SW4; SW4 of SW4 and S2 of NW4 of SW4 of Sec. 11; SW4 and S2 of NW4 of Sec. 12; NE4 of NE4; N2 of NE4 of NW4 and N2 of NW4 of NE4 of Sec. 14, Twp. 3 N., R. 14 E.	640	\$53.12 1/2	\$34,000.00
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Storrie and Rice Lease.

Both McAlester and Hartshorne seams occur in this tract. The upper Hartshorne has been opened on adjoining leased land on the East and shows a thickness of 3 feet and 10 inches. The McAlester seam has also been opened near this tract and shows a thickness of 51 inches of coal, with a 5-inch dirt-band in the middle.

The Ardmore branch of the C., R. I. & P. R. R. crosses this tract.

McAlester District ((South Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
54A	S2 of SE4 of NE4 of SE4; S2 of NE4 of SW4 of SE4; S2 of SW4 of SE4; SE4 of SE4 of Sec. 1 and NE4; N2 of SE4 of Sec. 12, Twp. 3 N., R. 14 E.; S. 4.50 ac. of SW 9 acres of Lot 6; SE 10 ac. of Lot 6 Lot 7; NE4 of NE4 of SW4; S2 of NW4 of NE4 of SW4; S2 of NE4 of SW4; SE4 of SW4; W2 of W2 of W2 of SE4 of Sec. 6 and W2 of W2 of W2 of NE4; E2 of NW4 and Lots 1 & 2 of Sec. 7, Twp. 3 N., R. 15 E.....	627.94	\$71.00	\$44,583

Thomas Coal Company, Lease No. 1.

Located on the Ardmore Branch of the Chicago, Rock Island & Pacific Railroad, Lease expires September 25, 1932. This tract is underlaid with two seams of coal: namely, Hartshorne and McAlester. About 50 acres is located behind the Hartshorne seam, but none mined out, leaving 577.94 acres of workable coal about 3 ft. thick, with a dip of about 25 degrees; and about 250 acres is located behind the outcrop of the McAlester seam but none mined out, leaving 377.94 acres of workable coal about 3 ft. thick, with a dip of about 25 degrees.

This lease has been executed since the date of Mr. Cameron's report of 1908.

68A	S2 of SW4; W2 of SE4 of Sec. 21 and N2 of NW4; SW4 of NW4; W2 of SE4 of NW4; NW4 of SW4 of Sec. 28 and E2 of NE4; SE4 of SW4 of NE4; E2 of SW4 of SW4; SE4 of SW4; SE4 of Sec. 29 and SW4 of SE4; E2 of SW4 of Sec. 31 and N2 of NE4; SW4 of NE4; NW4; N2 of SW4; SW4 of SW4 of Sec. 32, Twp. 4 N., R. 14 E.....	1250	\$36.00	\$45,000.
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Southern Fuel Company, Lease No. 1.

Located on a one-mile spur of the Missouri, Kansas & Texas Railway. Lease expires August 27, 1932. This tract contains both the McAlester and Hartshorne seams, the former being 4 ft. and the latter about 3 ft. 6 in. thick, with a dip of about 41 degrees. About 2 acres is located behind the coal outcrop and 127 acres mined out, leaving 873 acres of workable coal of the McAlester seam; about 40 acres is located behind the crop of the Hartshorne seam and none mine out, leaving 1210 acres, but by reason of the depth of such seam it is considered that only about 210 acres can be mined. The remainder has no commercial value at this time, therefore, it is not considered in this appraisalment.

In 1908 Mr. Cameron reported (Brewer Coal & Mining Company) that of the 610 acres then under lease, 160 was located behind the crop of which 36 acres had been mined out, leaving 404 acres of the McAlester seam. He also reported no area behind the crop and none of the coal mined out of the Hartshorne seam, but considered that on account of its depth on 400 acres was workable, making a total of 804 acres of both seams workable which he valued at \$40 per acre or a total of \$32,160.00.

Since date of Mr. Cameron's report more acreage has been mined out; and also 640 acres has been added to this lease.

Considering the acreage added to this lease, and the steep dip of the seams, the appraisalment above indicated, it is believed, represents the present fair value for the coal rights under the entire tract.

59A	S2 of SW4; SW4 of SE4 of Sec. 3 and SE4 of SE4 of Sec. 4 and E2 of Sec. 9 and W2; W2 of E2 of Sec. 10, Twp. 4 N., R. 14 E.....	960	\$24.00	\$23,040.
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Dow Coal Company, Lease No. 1.

Located on the Missouri, Kansas & Texas Railway. Lease expires April 29, 1932. About 40 acres is located behind the coal outcrop about 200 acres has been mined out, leaving 720 acres underlaid with the McAlester seam 4 ft. thick, with a dip of about 25 degrees, mining operations on this tract were suspended several years ago and the mined out portion was filled with water, thereby materially decreasing the value of the remaining unmined coal and such conditions have been taken into consideration in fixing the value of the coal rights in this tract.

In 1908 Mr. Cameron reported no acreage behind the crop, and 200 acres mined out and eliminated 160 acres on account of the depth of seam; and considered there was 600 acres of workable coal which he valued at \$35 per acre or a total of \$21,000.00.

McAlester District (South Map), Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
69B	N2 of NW4; SW4 of NW4; N2 of SW4 of NW4; N2 of NW4 of SW4 of Sec. 16 and SE4 of NE4; N2 of SE4; SW4 of SE4 of Sec. 17, Twp. 4 N., R. 14 E.....	320	\$26.00	\$ 8,320.00

Dow Coal Company, Lease No. 2.

Located on the Missouri, Kansas & Texas Railway. Lease expires September 6, 1932. About 50 acres is located behind the coal outcrop and 72 acres mined out, leaving 198 acres underlaid with the McAlester seam 4 ft. thick, with a dip of about 48 degrees. On account of the extreme dip it is doubtful if all this seam can be mined out for a considerable time, which fact has been considered in fixing the value of the coal rights in this tract.

In 1908 Mr. Cameron reported (Savanna Coal Company) that of the 120 acres then under lease, 30 acres was located behind the crop and 15 acres mined out, leaving 85 acres which he valued at \$40 per acre or a total of \$3,400.00.

Since the date of Mr. Cameron's report additional acreage has been added to this lease.

SCHEDULE OF APPRAISEMENT OF SEGREGATED LEASED COAL DEPOSITS.

Wilburton District, Choctaw Nation, Oklahoma.

Tract No. on Map	DESCRIPTION	Area	Per Acre	Appraisalment Total
3A	S2 of S2 of Sec. 25; S2 of S2 of Sec. 26; NE4; N2 of NW4; N2 of SE4 of NW4; NE4 of SE4; N2 of SE4 of Sec. 35; N2 of Sec. 36, Twp. 6 N., R. 18 E.....	960	\$82.00	\$78,720.00

Missouri, Kansas & Texas Coal Company, Lease No. 1.

Located on the Missouri, Kansas & Texas Railway. Lease expires December 21, 1930. This tract is underlaid with two seams of coal. About 80 acres is located behind the coal outcrop of each seam and about 100 acres of each mined out clean, leaving 780 acres underlaid with both the upper and lower Hartshorne seams, the former being about 4 ft. and the latter about 6 ft. thick, both with a dip of from 9 to 60 degrees. The coal in both seams is of good quality and all of the unmined coal is considered workable but in view of the varied and irregular dip of each seam and the great difficulty experienced in mining these seams it is believed that under all existing conditions that the fair value of the coal in this tract is indicated in the above schedule.

In 1908 Mr. William Cameron, United States Supervisor of Mines, reported 320 acres of each seam behind the crop and 30 acres of the upper and 25 acres of the lower mined out, leaving 585 acres of each or 1170 acres of both seams of workable coal which he valued at \$70 per acre or a total of \$81,900.00.

Subsequent to date of such report the boundaries of this lease have been changed by the relinquishment of 260 acres and the substitution of an equal area therefor. Furthermore Mr. Cameron reported both seams having a dip of only 9 degrees whereas the dip of each varies from 9 to 60 degrees, thereby depreciating the value of such seams.

3C	S2 of Sec. 36, Twp. 6 N., R. 18 E.; Lots 1 & 2; S2 of NE4; Lot 3; SE4 of NW4; N. 20.26 ac. of Lot 4; N2 of SE4; N2 of SE4 of SE4 of Sec. 1, Twp. 5 N., R. 18 E.....	948.46	\$90.00	\$85,361.40
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The Eastern Coal & Mining Company, Lease No. 3.

Located on the Missouri, Kansas & Texas Railway. Lease expires September 26, 1929. This tract is underlaid with two seams of coal. About 88 acres is located behind the coal outcrop of each seam and 208.46 acres mined out from each seam, leaving 652 acres underlaid with both the upper and lower Hartshorne seams, the upper being about 4 ft. and the lower about 5 ft. thick, each varying in dip from 10 to 60 degrees. The existing conditions and mining difficulties with reference to the seams in this tract are similar to those mentioned in the adjoining tract of the Missouri, Kansas & Texas Coal & Mining Company's Lease No. 1, are all considered in fixing the value.

In 1908 Mr. Cameron reported (Eastern Coal & Mining Company's Lease No. 2) 160 acres of each seam behind the crop and 15 acres of each mined out leaving 785 acres of each

Wilburton District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
	or 1570 acres of both seams of workable coal which he valued at \$70 per acre or a total of \$109,900.00.			
	Subsequent to Mr. Cameron's report the boundaries of this lease have been changed by the relinquishment of 120 acres and the substitution of an equal area therefor. Furthermore Mr. Cameron reported both seams having a dip of 9 degrees whereas each seam varies from 9 to 60 degrees, thereby depreciating the value of these seams.			
8A	S2 of S2 of Sec. 1 & N2; N2 of S2; N2 of S2 of SW4 of Sec. 12, Twp. 5 N., R. 19 E.; SE4 of SW4 and Lot 7 of Sec. 6; E2 of NW4; Lots 1, 2 & 3 and NE4 of SW4 of Sec. 7, Twp. 5 N., R. 20 and S2 of NE4 and N2 of SE4 of Sec. 7; and S2 of NW4 and NW4 of SW4 of Sec. 8 Twp. 5 N. R. 20 E.	1278.19	\$70.29	\$99,844.34
	Hailey-Ola Coal Company, Lease No. 23. Located on the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1929. This tract contains both the upper and lower Hartshorne seams, the upper being 4 ft. and the lower 5 ft. thick, each with a dip of about 25 degrees. About 60 acres is located behind the coal outcrop of each seam and 100 acres of each has been mined out, leaving 838.19 acres underlaid with each seam, the value of which is considered in the above schedule. In 1908 Mr. Cameron reported (Hailey-Ola Coal Company's Lease No. 2) 60 acres behind the crop of each seam and 13 acres of the upper and 14 acres of the lower seam mined out leaving 927 acres of the upper and 926 acres of the lower seam or a total of 1853 acres of workable coal which he valued at \$50 per acre or a total of \$92,650.00. More acreage has since been mined from this tract and, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.			
8B	S2 of N2; S2 of Sec. 2; N2; N2 of S2; N2 of S2 of S2 of Sec. 11, Twp. 5 N., R. 19 E.	1040	\$75.00	\$78,000.00
	Hailey-Ola Coal Company, Lease No. 22. Located on the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1929. This tract is underlaid with both the upper and lower Hartshorne seams, the former about 4 ft. and the latter 5 ft. thick, with a dip of about 25 degrees. About 70 acres is located behind the coal outcrop of each seam and 150 acres of each mined out, leaving 820 acres underlaid with each seam. In 1908 Mr. Cameron reported (Hailey-Ola Coal Company's Lease No. 1) 70 acres behind the crop of each seam and 55 acres of the upper, but none of the lower seam mined out leaving 915 acres of the upper and 901 acres of the lower or a total of 1816 acres of workable coal which he valued at \$50 per acre or a total of \$90,800.00. Mr. Cameron was apparently in error in considering none of the lower seam mined out, and since more coal has been mined from this tract, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.			
8C	Lots 1, 2, 3 & 4; SE4 of NW4; S2 of NE4; E2 of SW4; SE4 of Sec. 3; Lots 1 & 2 of Sec. 4; NE4 E2 of NW4; NE4 of SW4; N2 of SE4 of SW4; N2 of SE4; N2 of S2 of SE4 of Sec. 10, Twp. 5 N., R. 19 E.	1027.65	\$81.00	\$83,239.65
	Great Western Coal & Coke Company, Lease No. 3. Located on the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1929. This tract contains both the upper and lower Hartshorne seams, the former being 4 ft. and the latter 5 ft. thick, with a dip of about 19 degrees. About 50 acres is located behind the coal outcrop of each seam and 106.65 acres of the upper seam, but practically none of the lower seam has been mined out, leaving 871 acres underlaid with the upper and about 970 acres with the lower seam, and the value of both are included in the above appraisalment. In 1908 Mr. Cameron reported (Great Western Coal & Mining Company's Lease No. 2) 60 acres behind the crop of each seam and 78 acres of the upper and 87 acres of the lower seam mined out leaving 892 acres of the upper and 833 acres of the lower seam or a total of 1775 acres of workable coal which he valued at \$50 per acre or a total of \$88,750.00. The remaining workable area in both seams is included in the estimate of the present fair value of the coal rights as indicated in the above schedule.			

Wilburton District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
8D	SW4 of NW4; W2 of SW4 of Sec. 3; S2 of NE4; SE4 of NW4; E2 of SW4; SE4 of Sec. 4; NE4; E2 of NW4; NE4 of SW4; NE4 of SE4 of SW4; N2 of SE4; N2 of S2 of SE4 of Sec. 9; W2 of NW4; NW4 of SW4; N2 of SW4 of SW4 of Sec. 10, Twp. 5 N., R. 19 E.	1030	\$74.00	\$76,220.00
	Great Western Coal & Coke Company, Lease No. 2. Located on the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1929. This tract is underlaid with both the upper and lower Hartshorne seams, the former being about 4 ft. and the latter 5 ft. thick, each having a dip of about 19 degrees. About 60 acres is located behind the coal outcrop of each seam and about 165 acres of each seam has been mined out, leaving 805 acres underlaid with both seams. In 1908 Mr. Cameron reported (Great Western Coal & Coke Company's Lease No. 1) 60 acres behind the crop of each seam and 56 acres of each mined out leaving 914 acres of each or a total of 182 acres of both seams which he valued at \$50 per acre or a total of \$91,400. More acreage has been mined since date of such report, and both seams and value are considered in the appraisalment, which it is believed represents a fair value of the coal rights in this tract.			
8E	W2 of SW4 of Sec. 4; SE4; E2 of SW4 of Sec. 5; N2; N2 of S2; SE4 of Sec. 8; W2 of W2 of Sec. 9, Twp. 5 N., R. 19 E.	1000	\$75.00	\$75,000.00
	Degnan & McConnell Coal Co., Lease No. 1. Located on the Missouri, Kansas & Texas Railway and the Chicago, Rock Island & Pacific Railroad. Lease expires September 26, 1929. This tract contains both the upper and lower Hartshorne seams, the former being about 4 ft. and the latter 4 ft. 6 in. thick, both having a dip of about 16 degrees. About 150 acres is located behind the coal outcrop of the upper and 362 acres mined out, leaving 488 acres underlaid with the upper seam; and 100 acres behind the coal outcrop of the lower seam and 90 acres mined out, leaving 810 acres of the lower seam. On this lease there is in operation a mine known as New No. 5 which is mining the upper Hartshorne seam and which is at the point of such operation 4 ft. thick and composed of clean coal; the shaft is about 600 ft. deep and strikes the coal seam where the dip is about 12 to 15 degrees. The distance between the upper and lower Hartshorne seams at this point is presumably about 60 ft. but the lower Hartshorne is not worked on this lease at present and the condition of such seam is unknown. It is possible to give the valuation of the upper Hartshorne seam from the condition as known; but on the lower Hartshorne conditions can only be judged by those found surrounding the lower Hartshorne seam on the adjacent lease. It is believed the lower Hartshorne will be found to be of a thickness of between 4 and 5 ft. on this lease but there may be faults encountered in it and the difference in cost of mining will be greatly increased by reason of the upper Hartshorne being mined out above it. These facts have been taken into consideration in valuing this tract. In 1908 Mr. Cameron reported about 100 acres behind the crop of each seam or a total of 200 acres, and 136 acres of the upper and 135 acres of the lower seam mined out leaving 764 acres of the upper and 765 acres of the lower seam or a total of 1529 acres, which he valued at \$60 per acre or a total of \$91,740.00. Investigation has developed Mr. Cameron was in error as to the area behind the crop and mined out, therefore, it is believed the present fair value of the coal rights under existing conditions is indicated in the above schedule.			
8F	All of Sec. 6; W2 of W2 of Sec. 5; NE4 NE4 of NW4 of Sec. 7, Twp. 5 N., R. 19 E.	989.07	\$110.00	\$108,797.70
	The Eastern Coal & Mining Company, Lease No. 2. Located on the Missouri, Kansas & Texas Railway. Lease expires September 26, 1929. This tract contains both the upper and lower Hartshorne seams each about 4 ft. thick, with a dip of about from 9 to 15 degrees. About 60 acres of the upper seam is located behind the coal outcrop and 200 acres mined out, leaving 729.07 acres underlaid with the upper seam. About 20 acres is located behind the crop of the lower seam, none of which is mined out, leaving 969.07 acres underlaid with the lower seam, all of which has been considered in the appraisalment in the above schedule. In 1908 Mr. Cameron reported (Eastern Coal & Mining Company's Lease No. 1) 20 acres behind the coal outcrop of each seam and 38 acres of each mined out leaving 942 acres of			

Wilburton District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
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each or a total of 1884 acres of both seams of workable coal which he valued at \$70 per acre or a total of \$131,880.00.

Investigation has demonstrated, however, that Mr. Cameron was in error as to the area behind the crop and mined out of each seam; and considering the present conditions of each seam it is believed the present fair value of the coal rights is indicated in the above schedule.

30A	Lots 1, 2 & 3; SE4 of NW4; S2 of NE4; E2 of SW4; SE4 of Sec. 1, Twp. 5 N., R. 21 E.; Lots 2, 3, 4, 5, 6 & 7; SE4 of NW4; SW4 of NE4; E2 of SW4; W2 of SE4 of Sec. 6, Twp. 5 N., R. 22 E.....	955.02	\$35.00	\$33,425.70
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Bache and Denman Coal Company, Lease No. 1.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires April 1, 1912. About 250 acres is located behind the coal outcrop and 36.02 acres mined out, leaving 600 acres underlaid with the lower Hartshorne seam only which is 4 ft. thick, with a dip of about 28 degrees.

In 1908 Mr. Cameron reported 250 acres behind the crop and 14 acres mined out leaving 696 acres of workable coal which he valued at \$45 per acre or a total of \$31,320.00.

More acreage has since been mined out and, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.

40A	S2 of NW4; SW4; W2 of SE4 of Sec. 34 and S2 of NE4; SE4 of Sec. 33, Twp. 6 N., R. 22 E.; Lots 2, 3 & 4; S2 of NW4; SW4 of NE4 of Sec. 3; Lots 1 & 2 of S2 of NE4 of Sec. 4, Twp. 5 N., R. 22 E.	960.70	\$40.00	\$38,428.00
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Texas Coal Company, Lease No. 1.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1932. About 10 acres is located behind the coal outcrop and 93.70 acres mined out, leaving 857 acres underlaid with the lower Hartshorne seam about 4 ft. thick, with a dip of 30 degrees.

In 1908 Mr. Cameron reported (Turkey Creek Coal Company) 30 acres behind the crop and 67 acres mined out leaving 863 acres of workable coal which he valued at \$45 per acre or a total of \$38,835.00.

More acreage has since been mined out and, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.

41A	E2 of E2 of Sec. 34; W2; W2 of E2 of Sec. 35, Twp. 6 N., R. 22 E.; Lots 2, 3 & 4; S2 of NW4; SW4 of NE4 of Sec. 2; Lots 1; SE4 of NW4 of Sec. 3, Twp. 5 N., R. 22 E.....	962.26	\$40.00	\$38,490.40
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Le Bosquet Coal & Mining Company, Lease No. 1.

Located on the Chicago, Rock Island & Pacific Railroad. Lease expires May 5, 1932. About 30 acres is located behind the coal outcrop and 35.26 acres mined out clean, leaving 897 acres underlaid with the lower Hartshorne seam 4 ft. 4 in. thick, with a dip of about 30 degrees.

In 1908 Mr. Cameron reported 40 acres behind the crop and 33 acres mined out leaving a balance of 887 acres of workable coal which he valued at \$45 per acre or a total of \$39,915.00.

It appears that Mr. Cameron's information as to the acreage behind the crop was incorrect and additional coal has since been mined out, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.

SCHEDULE OF APPRAISEMENT OF SEGREGATED LEASED COAL DEPOSITS.

Howe-Poteau District Choctaw Nation, Oklahoma.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
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18A	NE4 of NE4 of NW4; S2 of NE4 of NW4; SE4 of NW4; E2 of SW4; E2 of Sec. 32; SW4 of NW4 and W2 of SW4 of Sec. 33, Twp. 6 N., R. 25 E; Lot 4 of Sec. 4, Twp. 5 N., R. 25 E.....	630.29	\$67.61	\$42,620.30
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Lease of C. A. Sturgeon.

This tract contains only the lower Hartshorne seam, which outcrops near the southern border and dips toward the north about 20 degrees decreasing toward the north. A Government drill hole sunk in approximately the NW4 of the SE4 of Section 31 to a total depth of 487 ft. showed at 401 ft., 1 ft. of coal, at 405 ft., 2 ft. of coal, and at 462 ft., 4 ft. 2 in. of coal. It is, therefore, estimated that this tract is underlaid with workable Hartshorne coal. The main line of the Chicago, Rock Island & Pacific Railroad crosses this tract.

19A	E2 of SW4; SE4 of Sec. 33 and SW4; W2 of SE4 of Sec. 34, Twp. 6 N., R. 25 E. and Lots 2, 3 & 4; SW4 of NE4; S2 of NW4 of Sec. 3 and Lots 1, 2 & 3; S2 of NE4; SE4 of NW4 of Sec. 4, Twp. 5 N., R. 25 E.....	960.17	\$35.00	\$33,605.95
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Degnan-McConnell Coal & Coke Company, Lease No. 24.

Located near the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1929. About 100 acres lies behind the coal outcrop, leaving 760.17 acres underlaid with the lower Hartshorne seam about 3 ft. 6 in. thick, with a dip of about 8 degrees, none of which has been mined out.

In 1908 Mr. Cameron reported Degnan-McConnell Lease No. 1) 200 acres behind the coal crop leaving 760 acres of workable coal which he valued at \$50 per acre or a total of \$38,000.00.

Investigation, however, has demonstrated that this coal is somewhat faulty and not considered as valuable as indicated by Mr. Cameron, therefore, the present fair value of the coal rights, it is believed, is indicated in the above schedule.

19B	E2 of SE4 of Sec. 34 and SW4; W2 of SE4 of Sec. 35, Twp. 6 N., R. 25 E. and Lots 2, 3 & 4; SW4 of NE4; S2 of NW4; SW4; W2 of SE4 of Sec. 2 and Lot 1; SE4 of NE4; E2 of SE4 of Sec. 3, Twp. 5 N., R. 25 E.....	960.86	\$35.00	\$23,630.10
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Degnan-McConnell Coal & Coke Company, Lease No. 25.

Located near the Chicago, Rock Island & Pacific Railroad. Lease expires February 21, 1929. About 100 acres lies behind the coal outcrop; 134.86 acres mined out, leaving 726 acres underlaid with the lower Hartshorne seam about 3 ft. 6 in. thick, with a dip of about 8 degrees.

In 1908 Mr. Cameron reported (Degnan-McConnell Lease No. 2) 180 acres behind the crop and 100 acres mined out, leaving 680 acres of workable coal which he valued at \$50 per acre or a total of \$34,000.00.

Investigation, however, has demonstrated that he was in error as to the area mined out; and the coal is somewhat faulty and not considered as valuable as indicated by him, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.

19C	Lots 2, 3 & 4; SW4 of NE4; S2 of NW4; SW4; W2 of SE4 of Sec. 1 and Lot 1; SE4 of NE4; E2 of SE4 of Sec. 2 and E2 of NE4 of Sec. 11 and NW4; W2 of NE4 of Sec. 12, Twp. 5 N., R. 25 E.....	959.12	\$34.00	\$32,610.08
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Degnan-McConnell Coal & Coke Company, Lease No. 26.

This tract is more distant from the Chicago, Rock Island & Pacific Railroad than Leases 24 and 25, but near the Kansas City Southern Railroad. Lease expires February 21, 1929. About 120 acres is located behind the coal outcrop; 20.12 acres mined out, leaving 820 acres underlaid with the lower Hartshorne coal seam about 4 ft. 2 in. thick, with a dip of about 8 degrees.

In 1908 Mr. Cameron reported (Degnan-McConnell Lease No. 3) 170 acres behind the

Howe-Poteau District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
	crop and 52 acres mined out leaving 730 acres of workable coal which he valued at \$50 per acre or a total of \$36,900.00. As this coal is somewhat faulty it is not considered as valuable as indicated by Mr. Cameron, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.			
19D	E2 of SE4 of Sec. 1 and E2 of E2 of Sec. 12, Twp. 5 N., R. 25 E. and Lots 6 & 7; E2 of SW4; W2 of SE4 of Sec. 6 and W2 of E2; E2 of W2; Lots 1, 2, 3 & 4 of Sec. 7, Twp. 5 N., R. 26 E.	977.12	\$41.00	\$40,061.00
	Degnan-McConnell Coal & Coke Company, Lease No. 27. Located on the Kansas City Southern Railroad. Lease expires February 21, 1929. About 80 acres is located behind the coal outcrop, leaving 897 acres underlaid with the lower Hartshorne seam about 4 ft. 2 in. thick, with a dip of about 8 degrees, none of which has been mined out. In 1908 Mr. Cameron reported (Degnan-McConnell Lease No. 4) 80 acres behind the crop and 1 acre mined out leaving 879 acres of workable coal which he valued at \$50 per acre or a total of \$43,950.00. As there was less acreage reported by Mr. Cameron than is in the lease, it is believed therefore, the present fair value of the coal rights is indicated in the above schedule.			
19E	W2 of Sec. 17 and E2 of Sec. 18 and NE1 of Sec. 19 and W2 of Sec. 20, Twp. 5 N., R. 26 E.	960	\$45.00	\$43,200.00
	Degnan-McConnell Coal & Coke Company, Lease No. 28. This tract is located near the Kansas City Southern Railroad. Lease expires February 21, 1929. About 40 acres is located behind the coal outcrop, leaving 920 acres of the lower Hartshorne seam about 3 ft. 6 in. thick, with a dip of about 8 degrees, none of which has been mined out. In 1908 Mr. Cameron reported (Degnan-McConnell Lease No. 5) 60 acres behind the crop leaving 900 acres of workable coal which he valued at \$50 per acre or a total of \$45,000.00. It appears, however, that Mr. Cameron's information as to the area behind the crop was incorrect and it is believed, therefore, the present fair value of the coal rights is indicated in the above schedule.			
53A	All of Sec. 10 and N2 of Sec. 15, Twp. 7 N., R. 24 E.	960	\$33.00	\$31,680.00
	Central Coal & Lumber Company, Lease No. 1. Located on a spur 8 miles from the main line of the Kansas City Southern Railroad. Lease expires July 3, 1929. About 300 acres is located behind the coal outcrop and 50 acres mined out, leaving 610 acres underlaid with the Witteville seam about 4 ft. thick, with a dip of from 10 to 12 degrees. In 1908 Mr. Cameron reported (Harrison-Edwin Coal & Coke Company Lease No. 1) 300 acres behind the crop and 40 acres mined out leaving 620 acres of workable coal which he valued at \$50 per acre or a total of \$31,000.00. Since such time, however, more acreage has been mined, therefore, it is believed that the fair present value of the coal rights is indicated in the above schedule.			
53B	All of Sec. 11 and N2 of Sec. 14, Twp. 7 N., R. 24 E.	960	\$24.00	\$23,040.00
	Central Coal & Lumber Company, Lease No. 2. Located on a spur 8 miles from the main line of the Kansas City Southern Railroad. Lease expires July 3, 1929. About 230 acres is located behind the coal outcrop, and 132 acres mined out, leaving 398 acres underlaid with the Witteville coal seam about 4 ft. thick, with a dip of about 10 degrees. In 1908 Mr. Cameron reported (Harrison-Edwin Coal & Coke Company Lease No. 2) 230 acres behind the crop and 25 acres mined out leaving 705 acres of workable coal which he valued at \$50 per acre or a total of \$35,250.00. Since such time, however, more acreage has been mined and mining operations are being conducted on this tract on a large scale, therefore, it is believed that the present fair value of the coal rights is indicated in the above schedule.			

Howe-Poteau District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
53C	All of Sec. 12 & N2 of Sec. 13, Twp. 7 N. R. 24 E.	960	\$31.00	\$29,760.00
	Central Coal & Lumber Company, Lease No. 3. Located on a spur 8 miles from the main line of the Kansas City Southern Railroad. Located on a spur 8 miles from the main line of the Kansas City Southern Railroad. Lease expires July 3, 1929. About 80 acres is located behind the coal outcrop, and 57 acres mined out, leaving 823 acres underlaid with the Witteville seam about 4 ft. thick, with a dip of about 10 degrees. In 1908 Mr. Cameron reported (Harrison-Edwin Coal & Coke Company's Lease No. 3) 80 acres behind the crop, none mined out, leaving 877 acres of workable coal which he valued at \$50 per acre or a total of \$43,850.00. There is an abandoned mine on this tract which depreciates its value, therefore, it is believed that the present fair value of the coal rights is indicated in the above schedule.			
64A	E2 of SE4 of Sec. 9 and SW4 of Sec. 10 and N2; SW4 of Sec. 15 and E2 of E2 of Sec. 16, Twp. 7 N., R. 25 E.	960	\$32.00	\$30,720.00
	Poteau Coal & Mercantile Company, Lease No. 1. Located on a spur 3 miles from the main line of the St. Louis-San Francisco Railroad. Lease expires February 21, 1929. About 175 acres is located behind the coal outcrop, and 185 acres mined out, leaving 600 acres underlaid with the Witteville seam about 4 ft. thick, with a dip of about 6 degrees. In 1908 Mr. Cameron reported 180 acres behind the crop and 117 acres mined out leaving 663 acres which he valued at \$50 per acre or a total of \$33,150.00.			

SCHEDULE OF APPRAISEMENT OF SEGREGATED LEASED COAL DEPOSITS.

McCurtain-Massey District, Choctaw Nation, Oklahoma.

7A	S2 of S2 of Sec. 17 and All of Sec. 20 and N2 of N2 of Sec. 29, Twp. 8 N., R. 22 E.	960	\$55.00	\$52,800.00
	Blue Ridge Coal Company, Lease No. 8. Located on the Ft. Smith & Western Railroad. Lease expires July 2, 1932. None of this area is located behind the coal outcrop and 100 acres is mined out, leaving 860 acres underlaid with the Panama coal seam about 4 ft. thick, with a dip of about 8 degrees. In 1908 Mr. William Cameron, United States Supervisor of Mines, reported (San Bois Lease No. 4) none of the area behind the crop, 68 acres of coal mined out, leaving a balance of 892 acres of workable coal which he valued at \$60 per acre or a total of \$53,520.00. (Indicated on McCurtain Map, Taff Circular No. 4, as Johnson Coal Company's Lease No. 1.) More coal has since been mined out and it is believed the present fair value of the coal rights is indicated in the above schedule.			
7B	SW4 of Sec. 15 and S2 of Sec. 16 and N2 of Sec. 21; NW4 of Sec. 22, Twp. 8 N., R. 22 E.	960	\$46.00	\$44,160.00
	Blue Ridge Coal Company, Lease No. 2. Located on the Ft. Smith & Western Railroad. Lease expires June 25, 1931. About 30 acres lies behind the coal outcrop and about 200 acres has been mined out, leaving 730 acres underlaid with the Panama coal seam about 6 ft. thick, with a dip of about 5 degrees. \$10.00 and \$60.00—\$43,800.00. In 1908 Mr. Cameron reported (San Bois Lease No. 2) none of the area behind the crop, and 20 acres mined out, leaving 930 acres of workable coal which he valued at \$70 per acre or a total of \$65,100.00. Mr. Cameron was in error in showing none of the area behind the coal outcrop, and it has also been demonstrated by drilling by said lessee company that there is considerable defective or faulty coal, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.			

McCurtain-Massey District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
7C	W2 of Sec. 14 and E2 of NW4 of Sec. 15 and NE4 of Sec. 16, Twp. 8 N., R. 22 E. Blue Ridge Coal Company, Lease No. 7. Located on the Ft. Smith & Western Railroad. Lease expires February 25, 1932. None of the area is located behind the coal outcrop, and none has been mined out, leaving the entire area of 960 acres underlaid with the Panama coal seam about 3 ft. 6 in. thick, with a dip of about 9 degrees. \$50.00—\$48,000.00. In 1908 Mr. Cameron reported (San Bois Lease No. 7) this tract as containing 960 acres of workable coal which he valued at \$50 per acre or a total of \$48,000.000. (This tract is indicated on the McCurtain Map, Taff Circular No. 4, as San Bois Company, Essen No. 1.) It is believed the present fair value of the coal rights is indicated in the above schedule.	960	\$50.00	\$48,000.00
7D	S2 of Sec. 21 and SW4 of Sec. 22 and NW4 of Sec. 27 and N2 of Sec. 28, Twp. 8 N., R. 22 E. Blue Ridge Coal Company, Lease No. 3. Located on the Ft. Smith & Western Railroad. Lease expires June 25, 1931. About 50 acres is located behind the coal outcrop and about 125 acres has been mined out, leaving 785 acres underlaid with the Panama coal seam about 6 ft. thick, with a dip of about 5 degrees. In 1908 Mr. Cameron reported (San Bois Lease No. 3) none of the area behind the crop, and 80 acres mined out, leaving 875 acres of workable coal which he valued at \$70 per acre or a total of \$61,250.00. Mr. Cameron was in error in stating none of the area was located behind the crop; and more coal has been mined since date of his report. There is an abandoned mine on this tract and some of the coal is defective and faulty, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.	960	\$41.00	\$39,360.00
7E	S2 of SE4 of Sec. 22 and S2 of Sec. 23 and N2 of Sec. 26 and NE4 of Sec. 27 and N2 of SE4 of Sec. 27, Twp. 8 N. R. 22 E. Blue Ridge Coal Company, Lease No. 5. Located on the Ft. Smith & Western Railroad. Lease expires June 25, 1931. About 55 acres is located behind the coal outcrop and no coal has been mined out, leaving 905 acres underlaid with the Panama coal seam about 6 ft., thick, with a dip of about 8 degrees. In 1908 Mr. Cameron reported (San Bois Lease No. 5) 55 acres behind the crop, leaving 905 acres of workable coal which he valued at \$70 per acre, or a total of \$65,350.00. This coal is somewhat faulty and defective therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.	960	\$47.00	\$45,120.00
7F	SW4; NW4 of SE4; S2 of SE4 of Sec. 24; all of Sec. 25, Twp. 8 N., 22 E. Blue Ridge Coal Company, Lease No. 6. (Original San Bois Lease No. 6 shows 960 acres but description of land aggregates only 920 acres.) Located on the Ft. Smith & Western Railroad. Lease expires June 25, 1931. About 25 acres is located behind the coal outcrop and none has been mined out, leaving 895 acres underlaid with the Panama coal seam about 6 ft. thick, with a dip of about 8 degrees. In 1908 Mr. Cameron reported (San Bois Lease No. 6) 960 acres in the lease, 55 behind the crop and no coal mined out, leaving 905 acres which he valued at \$70 per acre or a total of \$63,350.00. Mr. Cameron was in error in reporting 55 acres behind the crop. And it appears that this coal is somewhat faulty as shown by developments on the adjoining tract, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.	920	\$60.00	\$55,200.00
17A	Lot 4 of Sec. 19, Twp. 8 N. R. 23 E. Leased to East McCurtain Coal Co. The outcrop crosses the northern part of this tract where it is about 5 ft. thick, the seam varying from 15 to 22 degrees throughout the tract. A drill hole sunk by the San Bois Coal Company in about the SE4 of the SE4 of Section 19 showed 2 ft. of coal, 11 in. of dirt band, and 3 ft. of coal. Recent developments on allotted land adjoining this tract on the north show the coal to be 5 ft. thick, with a dip of about 10 degrees and of good quality. The Ft. Smith & Western Railroad is near this tract.	34.43	\$60.00	\$ 2,065.80

McCurtain-Massey District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
18A	SE4 of NE4; NE4 of SW4; S2 of SW4; SE4 of Sec. 21; all of Sec. 28, Twp. 8 N., R. 23 E. Blue Ridge Coal Company, Lease No. 1. Located on the Ft. Smith & Western Railroad. Lease expires April 27, 1930. About 20 acres is located behind the coal outcrop and none has been mined out, leaving 940 acres underlaid with the Panama coal seam about 6 ft. thick with a dip of about 8 degrees. In 1908 Mr. Cameron reported (San Bois Lease No. 1) 920 acres in lease, 25 acres behind the crop and none mined out, leaving 895 acres of workable coal which he valued at \$70 per acre, or a total of \$62,650.00. Mr. Cameron evidently was in error in stating this tract to be the same as Lease No. 6 on the McCurtain Map of the Taff Circular No. 4. Developments on the adjoining tract shows irregularity in the seam, which under present conditions decreases the value of the coal in this tract as compared with Mr. Cameron's estimate.	960	\$42.00	\$40,320.00
19A	W2 of NE4; S2 of NW4 of Sec. 28, Twp. 8 N., R. 23 E. Milton Co-Operative Company, Lease No. 1. Located on the Ft. Smith & Western Railroad. Lease expires September 25, 1932. About 30 acres is located behind the coal outcrop and 10 acres mined out, leaving 120 acres of the Panama seam about 6 ft. thick, with a dip of about 16 degrees. This lease was executed subsequent to Mr. Cameron's report. The coal in this tract is somewhat defective, however, it is believed the present fair value of the coal rights is indicated in the above schedule.	160	\$49.00	\$ 7,840.00
24A	All of Sec. 9 and E2 of Sec. 8, Twp. 8 N., R. 24 E. Mazzard Coal & Mining Company, Lease No. 1. Located on the Midland Valley and the Ft. Smith & Western Railroads. Lease expires May 16, 1932. About 240 acres is located behind the coal outcrop and 36 acres mined out, leaving 685 acres underlaid with the Panama coal seam about 5 ft. thick, with a dip of about 11 degrees. In 1908, Mr. Cameron reported 240 acres behind the crop and 22 acres mined out, leaving 698 acres of workable coal which he valued at \$65 per acre or a total of \$45,370. Subsequent to Mr. Cameron's report the coal in this tract has been found somewhat defective and more has been mined out, consequently it is believed the present fair value of the coal rights is indicated in the above schedule.	960	\$33.00	\$31,680.00
27A	Lots 1, 2 & 3; S2 of N2; N2 of SW4; NW4 of SE4 of Sec. 3 and NE4 of SE4; S2 of SE4 of Sec. 4, Twp. 8 N., R. 24 E. and NE4 of SW4; S2 of SW4 of Sec. 34, Twp. 9 N., R. 24 E. Andrew P. Gunther, Lease No. 1. Located on the Ft. Smith & Western Railroad. Lease expires September 25, 1932. About 10 acres is located behind the coal outcrop and 12.18 acres mined out, leaving 583 acres underlaid with the Panama seam about 5 ft. thick with a dip of about 15 degrees. This lease was executed since Mr. Cameron's report. The coal is somewhat defective, therefore, the present fair value of the coal rights is indicated in the above schedule.	605.18	\$49.00	\$29,653.82
28A	S2 of S2 of Sec. 3 and N2 of NE4; SW4 of NE4; W2 of Sec. 10, Twp. 8 N., R. 24 E. Bokoshe Smokeless Coal Company, Lease No. 1. Located on the Ft. Smith & Western Railroad. Lease expires May 15, 1932. About 40 acres is located behind the coal outcrop, and no coal mined out, leaving 600 acres of the Panama seam about 5 ft. thick, with a dip of about 15 degrees. This lease was executed since Mr. Cameron's report. The coal is somewhat defective, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.	640	\$47.00	\$30,080.00
33A	SW4 of SW4 of Sec. 18; NE4; E2 of NW4; Lots 1, 2 and 3; NE4 of SW4; NW4 of SE4 of Sec. 19; and NW4 of Sec. 20, Twp. 8 N., R. 25 E. Lease of E. D. Bedwell Coal Co. Lease approved July 22, 1918. The Panama seam outcrops along the northern boundary and dips to the south about 15	635.99	\$44.99	\$28,599.50

McCurtain-Massey District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
35A	E2 of Sec. 20 and all of Sec. 21, Twp. 8 N., R. 25 E.	960	\$35.00	\$33,600.00

Panama Coal Company, Lease No. 1.
 Located on the Kansas City Southern and the Midland Valley Railroads. Lease expires October 11, 1929. About 90 acres is located behind the coal outcrop and 45 acres mined out, leaving 825 acres underlaid with the Panama seam about 5 ft. thick, with a dip of about 14 degrees.

In 1908 Mr. Cameron reported (Ozark Coal & Railway Company) 90 acres behind the crop and 45 acres mined out, leaving 825 acres workable coal which he valued at \$50 per acre, or a total of \$41,250.00.

This tract is considered of less value at this time because of an abandoned mine thereon now filled with water, therefore, it is believed that the present fair value is indicated in the above schedule.

44A	Lot 4; SE4 of SW4; NE4 of SE4; S2 of SE4 of Sec. 19 and SW4 of SW4 of Sec. 20 and NW4 of NW4; N2 of SW4 of NW4; SW4 of SW4 of NW4 of Sec. 29 and NE4; E2 of NW4; Lots 1 & 2 of Sec. 30, Twp. 8 N., R. 26 E.	637.40	\$50.00	\$31,870.00
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Superior Smokeless Coal Co. P'd up

Superior Smokeless Coal & Mining Company, Lease No. 1.
 Located on the Midland Valley Railroad. Lease expires September 25, 1932. About 20 acres is located behind the coal outcrop, and no coal mined out, leaving 617.40 acres underlaid with the Panama sea about 4 ft. thick, with a dip of about 12 degrees. \$50.00—\$31,870.

This lease was executed subsequent to Mr. Cameron's report. The coal is of good quality and it is believed the present fair value of the coal rights is indicated in the above schedule.

47A	SE4 of Sec. 15 and NE4 of Sec. 21 and all of Sec. 22 SE4 of NE4 and SE4 of Sec. 20 and SW4 of NW4; E2 of NW4 and S2 of Sec. 21 of Twp. 8 N., R. 26 E.	1600	\$45.00	\$75,200.00
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Cameron Coal & Mercantile Company, Lease No. 1.
 Located on the Midland Valley Railroad. Lease expires July 5, 1932. About 40 acres is located behind the coal outcrop and 75 acres mined out, leaving 1560 acres underlaid with the Panama seam about 4 ft. thick, with a dip of about 10 to 15 degrees.

In 1908 Mr. Cameron reported 40 acres behind the crop and 45 acres mined out, leaving 875 acres of workable coal which he valued at \$50 per acre or a total of \$43,750.00.

More acres has since been mined out and it is believed the present fair value of the coal rights is indicated in the above schedule.

SCHEDULE OF APPRAISEMENT OF SEGREGATED LEASED COAL DEPOSITS.

Lehigh-Ardmore District, Choctaw Nation, Oklahoma.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
4B	NW4 of SW4; S2 of SW4; SW4 of SE4 of Sec. 2 and E2 of SW4; SE4 of Sec. 3 and N2 of NE4; SE4 of NE4 of Sec. 10 and W2 of E2; NW4 N2 of SW4; SE4 of SW4 of Sec. 11, Twp. 2 S., R. 1 E.	960	\$21.00	\$20,160.00

St. Louis & Galveston Coal Company, Lease No. 2.
 Located on a spur of the Missouri, Kansas & Texas Railway. Lease expires October 1, 1929. About 230 acres is located behind the coal outcrop and 55 acres mined out, leaving

Lehigh-Ardmore District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
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675 acres underlaid with the Atoka seam about 3 ft. thick, with a dip of about 5 degrees. The larger part of the remaining acreage of coal will doubtless be mined by stripping.

In 1908 Mr. Cameron reported 250 acres behind the coal crop and 5 acres mined out leaving 705 acres of workable coal which he valued at \$25 per acre or a total of \$17,625.00.

Considering present conditions and the quality of the coal, it is believed the present fair value is indicated in the above schedule, for while the coal is somewhat faulty and thin, still it can be mined profitably by stripping.

27A	S2 of Sec. 14 and SE4; SE4 of SW4 of Sec. 15 and NE4; SE4 of NW4; NE4 of SE4 of Sec. 22 and NW4 of NE4; NW4; NW4 of SW4 of Sec. 23, Twp. 1 N., R. 10 E.	960	\$32.00	\$30,720.00
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Coalgate Company, Lease No. 2.
 Located on the Chicago, Rock Island & Pacific Railroad. Lease expires April 7, 1932. About 110 acres is located behind the coal outcrop and 293 acres mined out, leaving 557 acres underlaid with the Lehigh coal seam about 3 ft. 6 in. thick, with a dip of about 10 degrees.

In 1908 Mr. Cameron reported 110 acres behind the crop and 181 acres mined out leaving 669 acres which he valued at \$50 per acre or a total of \$33,450.00.

Considering the additional acreage mined out since Mr. Cameron's report it is believed the present fair value is indicated in the above schedule.

27B	NE4 of SW4; S2 of SW4; SE4 of Sec. 21 and SW4; W2 of SE4 of Sec. 22 and NW4 of NW4 of Sec. 27 and N2; N2 of SW4 of Sec. 28, Twp. 1 N., R. 10 E.	960	\$34.00	\$32,640.00
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Coalgate Company, Lease No. 1.
 Located on the Chicago, Rock Island & Pacific Railroad. Lease expires August 23, 1932. About 95 acres is located behind the coal outcrop and 234 acres mined out, leaving 631 acres underlaid with the Lehigh seam about 4 ft. 6 in. thick, with a dip of from 8 to 10 degrees.

In 1908 Mr. Cameron reported 260 acres behind the crop and 114 acres mined out leaving 586 acres of workable coal which he valued at \$50 per acre or a total of \$29,300.00.

Investigation develops that Mr. Cameron was in error as to the area behind the crop and mined out, therefore, it is believed the present fair value is indicated in the above schedule.

27D	NW4 of SW4; W2 of SE4 of SW4; S2 of SW4 of Sec. 29; NE4; N2 of SE4 of Sec. 31; S2 of SE4 of Sec. 30; NW4 of NE4; N2 of NW4; SW4 of NW4 of Sec. 32, Twp. 1 N. R. 10 E.	620	\$39.20	\$24,300.00
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Hazelton Coal Company, Lease No. 1.
 Located on the Chicago, Rock Island & Pacific and the Santa Fe Railroads. Lease expires September 25, 1932. None of the area is located behind the coal outcrop, but 35 acres has been mined out, leaving 595 acres underlaid with the Lehigh seam about 4 ft. thick, with a dip of between 15 and 30 degrees.

This lease was executed since Mr. Cameron's report of 1908.

28A	E2 of Sec. 12, Twp. 1 S., R. 10 E. and E2; E2 of W2; Lots 1, 2, 3 & 4 of Sec. 7, Twp. 1 S., R. 11 E.	938.64	\$39.00	\$36,606.96
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Missouri, Kansas & Texas Ry. Company, Lease No. 4.
 Located on the Chicago, Rock Island & Pacific and the Missouri, Kansas & Texas Railroads. Lease expires March 20, 1932. About 150 acres is located behind the coal outcrop and 220.64 acres mined out, leaving 568 acres underlaid with the Lehigh seam about 4 ft. 6 in. thick, with a dip of about 12 degrees.

In 1908 Mr. Cameron reported (Robert W. McGuire Lease No. 4) 160 acres located behind the crop and 130 acres worked out, leaving 670 acres of workable coal which he valued at \$60 per acre or a total of \$40,200.00.

Investigation shows 150 acres located behind the crop and 220 acres mined out, therefore, under present conditions, it is believed the fair value of the coal rights is indicated in the above schedule.

28B	All of Sec. 13, Twp. 1 N., R. 10 E. & E2 of W2; Lots 1, 2, 3 & 4 of Sec. 18, Twp. 1 N., R. 11 E.	939.68	\$18.00	\$16,914.24
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Missouri, Kansas & Texas Ry. Company, Lease No. 3.
 Located on the Chicago, Rock Island & Pacific and the Missouri, Kansas & Texas Rail-

Lehigh-Ardmore District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
	roads. Lease expires March 20, 1932. About 250 acres is located behind the coal outcrop and 488.68 acres mined out, leaving 201 acres underlaid with the Lehigh seam about 4 ft. 9 in. thick, with a dip of about 14 degrees.			
	In 1908 Mr. Cameron reported (Robert W. McGuire Lease No. 3) 240 acres behind the crop and 452 acres mined out leaving 268 acres which he valued at \$60 per acre or a total of \$16,080.00.			
	Under present conditions it is believed the fair value of the coal rights is indicated in the above schedule.			
28C	M., K. & T. Ry. Co. Lease No. 2; E2 of E2 of NE4; E2 of SE4; Sec. 23 and W2 of NE4; W2; SE4 of Sec. 24 and N2 of Sec. 25 and E2 of NE4; E2 of W2 of NE4 of Sec. 26, Twp. 1 N., R. 10 E. and Lot 3 of Sec. 19, Twp. 1 N., R. 11 E.	1155.60	\$50.00	\$57,780.00
	Missouri, Kansas & Texas Ry. Company, Lease No. 2. Located on the Missouri, Kansas & Texas Railway. Lease expires March 20, 1932. About 30 acres of this tract is located behind the coal outcrop and 196.60 acres mined out, leaving 929 acres underlaid with the Lehigh seam about 4 ft. 6 in. thick, with a dip of about 8 degrees.			
	In 1908 Mr. Cameron reported (Robert W. McGuire Lease No. 2) 30 acres behind the crop and 669 acres mined out, leaving a balance of 261 acres of workable coal which he valued at \$60 per acre or a total of \$15,660.00.			
	It appears, however, that Mr. Cameron's information as to the area mined out was incorrect and since his report more acreage has been added to the lease, therefore, the fair value of the coal rights underlying this tract is believed to be indicated in the above schedule.			
28D	M., K. & T. Ry. Co. Lease No. 1; NE4 of SE4; W2 of SE4; SW4 of Sec. 25 and SE4; E2 of SW4 of Sec. 26 and N2 of N2; N2 of S2 of N2 of Sec. 35 and N2 of NW4; N2 of S2 of NW4 of Sec. 36, Twp. 1 N., R. 10 E.	880	\$33.00	\$29,040.00
	Missouri, Kansas & Texas Ry. Company, Lease No. 1. Located on the Missouri, Kansas & Texas Railway. Lease expires March 20, 1932. About 100 acres is located behind the coal outcrop and 360 acres mined out, leaving 420 acres underlaid with the Lehigh seam about 4 ft. 6 in. thick, with a dip of about 8 degrees.			
	In 1908 Mr. Cameron reported (Robert W. McGuire Lease No. 1) 60 acres behind the crop and 466 acres mined out leaving 434 acres which he valued at \$60 per acre or a total of \$26,040.00.			
	Mr. Cameron evidently was in error as to the area behind the crop and area mined out; more acreage has since been added to this lease, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.			
35A	M., K. & T. Ry. Co. Lease No. 5; E2 of NE4 of Sec. 24, Twp. 1 N., R. 10 E. and NE4; E2 of NW4; Lots 1 & 2 of Sec. 19 and SE4 of Sec. 18 and S2 of Sec. 17 and S2 of SE4 of NE4 of Sec. 17 and S2 of SW4 of NW4; W2 of SW4 of Sec. 16 and N2 of Sec. 20 and NW4 of NW4 of Sec. 21, Twp. 1 N., R. 11 E.	1350.77	\$53.00	\$71,590.81
	Missouri, Kansas & Texas Ry. Company, Lease No. 5. Located on the Missouri, Kansas & Texas Railway. Lease expires March 20, 1932. About 50 acres is located behind the coal outcrop and 119.77 acres mined out, leaving 1181 acres underlaid with the Lehigh seam 4 ft. 9 in. thick, with a dip of about 12 degrees.			
	In 1908 Mr. Cameron reported (Robert W. McGuire Lease No. 5) 40 acres behind the crop and 292 acres mined out leaving 628 acres of workable coal which he valued at \$60 per acre or a total of \$37,680.00.			
	Mr. Cameron evidently was in error as to the area behind the crop and area mined out; and since his report more acreage has been added to the lease, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.			
37A	S2 of S2 of Sec. 10; S2 of SW4 of Sec. 11; NW4; N2 of SW4 of Sec. 14; N2; and N2 of S2 of Sec. 15, Twp. 1 N., R. 11 E.	960	\$50.00	\$48,000.00
	Missouri, Kansas & Texas Ry. Company, Lease No. 6. Located on the Chicago, Rock Island & Pacific and the Missouri, Kansas & Texas Rail-			

Lehigh-Ardmore District, Leased—Continued.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
	roads. Lease expires March 20, 1932. About 160 acres is located behind the coal outcrop, but no coal mined out, leaving 800 acres underlaid with the Lehigh seam about 4 ft. 9 in. thick, with a dip of about 10 degrees.			
	In 1908 Mr. Cameron reported (Robert W. McGuire Lease No. 6) 140 acres behind the crop and no coal mined out leaving 820 acres of workable coal which he valued at \$60 per acre or a total of \$49,200.00.			
	Mr. Cameron evidently was in error as to the area behind the crop, therefore, it is believed the present fair value of the coal rights is indicated in the above schedule.			

LEASED ASPHALT DEPOSITS.

Chickasaw Nation, Oklahoma.

Tract No. on Map	DESCRIPTION	Area	Appraisalment Per Acre	Total
2	All of Sec. 12; N2 of Sec. 13, Twp. 3 S., R. 1 W.	960	\$25.00	\$24,000.00
	American Mineral Wax Company. Located in Sections 12 and 13, Twp. 3 S., R. 1 W., being about 18 miles from Ardmore, Carter County, Oklahoma, the nearest railroad point. Lease expires October 1, 1930. This deposit was mined rather extensively at one time, but work was suspended a few years ago. The asphalt bearing rock is a sand stone which contains an impregnated zone about 45 ft. wide, though in some places appearing to widen out to a much greater distance. The deposit has an almost vertical dip.			
4	S2 of S2 of Sec. 15; S2 of SE4 of Sec. 16; NE4 of Sec. 21; NW4; N2 of NE4 of Sec. 22, Twp. 1 S., R. 3 E.	640	\$15.00	\$9,600.00
	Rock Creek Natural Asphalt Company. This tract is located about 5 miles south and 1 mile west of Sulphur, Murray County, Oklahoma, which is the nearest railroad point, and about 1 mile west of the tract leased to the Gilsonite Roofing and Paving Company. Lease expires August 22, 1932. The asphalt is found here impregnating lime stone, and in other respects the deposit is similar to the Gilsonite Roofing and Paving Company. There has been no asphalt mined at this place for several years.			
5	SE4 of Sec. 21; S2; S2 of NE4 of Sec. 22; W2; S2 of SE4 of Sec. 23, Twp. 1 S., R. 3 E.	960	\$15.00	\$14,400.00
	Gilsonite Roofing and Paving Company. Located about 4 miles south of Sulphur, Murray County, Oklahoma, which is the nearest railroad point. Lease expires July 18, 1932. The asphalt is found impregnating lime stone which dips steeply to the south. The asphalt bearing stratum is about 130 ft. thick, and consists mostly of lime stone. This quarry has not been operated for several years.			
6	SE4; E2 of SW4; S2 of NE4; SE4 of NW4 of Sec. 14, Twp. 5 S., R. 1 E.	360	\$15.00	\$5,400.00
	Downard Asphalt Company. Situated about 5 miles southwest of Ardmore, Carter County, Oklahoma. Lease expires September 15, 1930. The Atchison, Topeka & Santa Fe Railroad is about 5 miles northeast of this tract. The asphalt occurs here associated with lime stone. The asphalt bearing stratum is from 12 to 20 ft. thick and lies nearly at a vertical dip. The deposit has been mined as an open pit and the product has been shipped to Kansas City, Missouri, and other cities in the central west where it has been used for paving purposes.			