BOK FINANCIAL CORP ET AL
Form 10-Q
April 29, 2016

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-Q
(Mark One)
ý QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the quarterly period ended March 31, 2016
OR
¨ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____________ to ______________

Commission File No. 0-19341

BOK FINANCIAL CORPORATION
(Exact name of registrant as specified in its charter)

Oklahoma	73-1373454
(State or other jurisdiction of Incorporation or Organization)	(IRS Employer Identification No.)

Bank of Oklahoma Tower	
Boston Avenue at Second Street	
Tulsa, Oklahoma	74192
(Address of Principal Executive Offices)	(Zip Code)

(918) 588-6000
(Registrant’s telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ý No ¨

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ý No ¨

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of “accelerated filer and large accelerated filer” in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer ý Accelerated filer ¨ Non-accelerated filer ¨

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes ¨ No ý

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date: 66,155,103 shares of common stock ($.00006 par value) as of March 31, 2016.

BOK Financial Corporation
Form 10-Q
Quarter Ended March 31, 2016

Index

Part I. Financial Information
Management's Discussion and Analysis (Item 2) 1
Market Risk (Item 3) 41
Controls and Procedures (Item 4) 42
Consolidated Financial Statements – Unaudited (Item 1) 44
Quarterly Financial Summary – Unaudited (Item 2) 119
Quarterly Earnings Trend – Unaudited 122

Part II. Other Information
Item 1. Legal Proceedings 122
Item 2. Unregistered Sales of Equity Securities and Use of Proceeds 122
Item 6. Exhibits 122
Signatures 123

Management's Discussion and Analysis of Financial Condition and Results of Operations
Performance Summary

BOK Financial Corporation ("the Company") reported net income of $42.6 million or $0.64 per diluted share for the first quarter of 2016, compared to $74.8 million or $1.08 per diluted share for the first quarter of 2015 and $59.6 million or $0.89 per diluted share for the fourth quarter of 2015. The decrease in net income was largely based on an increase in the provision for credit losses and a decrease in the fair value of mortgage servicing rights, net of economic hedges.

Highlights of the first quarter of 2016 included:

- Net interest revenue totaled $182.6 million for the first quarter of 2016, compared to $167.7 million for the first quarter of 2015 and $181.3 million for the fourth quarter of 2015. Net interest revenue increased over the prior year primarily due to growth in average earning assets. Average earning assets were $28.6 billion for the first quarter of 2016 and $27.3 billion for the first quarter of 2015. Net interest margin was 2.65 percent for the first quarter of 2016. Net interest margin was 2.55 percent for the first quarter of 2015 and 2.64 percent for the fourth quarter of 2015.
- Fees and commissions revenue totaled $165.6 million for the first quarter of 2016, largely unchanged compared to the first quarter of 2015. Mortgage banking revenue decreased $4.9 million primarily due to lower loan production volume. This decrease was offset by increases in all other revenue categories. Fees and commissions revenue increased $9.8 million over the fourth quarter of 2015, primarily due to a $9.4 million increase in mortgage banking revenue.
- Changes in the fair value of mortgage servicing rights, net of economic hedges, decreased pre-tax net income in the first quarter of 2016 by $11.4 million, decreased pre-tax net income in the first quarter of 2015 by $5.0 million and increased pre-tax net income by $2.6 million in the fourth quarter of 2015. Net changes in the fair value of mortgage servicing rights for the first quarter of 2016 were largely driven by a decrease in mortgage interest rates during the first quarter and a narrowing in the forward-looking spread between the primary mortgage interest rates offered to borrowers and secondary mortgage interest rates required by investors.
- Operating expenses totaled $244.9 million for the first quarter of 2016, an increase of $24.6 million over the first quarter of 2015. Personnel expense increased $7.3 million and non-personnel expense increased $17.3 million. The first quarter of 2016 included several litigation accruals and post-acquisition valuation adjustments to a consolidated merchant banking investment. Deposit insurance expense increased due to increased criticized and classified assets levels, an input into the deposit insurance assessment calculation. Operating expenses increased $12.3 million compared to the previous quarter.
- The Company recorded a $35.0 million provision for credit losses in the first quarter of 2016. The additional provision was largely a result of the extended decline in commodity prices and its impact on our energy loan portfolio. The Company recorded a $22.5 million provision in the fourth quarter of 2015. No provision for credit losses was recorded in the first quarter of 2015. Gross charge-offs were $24.0 million in the first quarter of 2016, $2.2 million in the first quarter of 2015 and $4.9 million in the fourth quarter of 2015. Recoveries were $1.5 million in the first quarter of 2016, compared to $10.5 million in the first quarter of 2015 and $1.9 million in the fourth quarter of 2015.
- The combined allowance for credit losses totaled $240 million or 1.50 percent of outstanding loans at March 31, 2016, compared to $227 million or 1.43 percent of outstanding loans at December 31, 2015. The portion of the combined allowance attributed to the energy portfolio totaled 3.19 percent of outstanding energy loans at March 31, 2016, an increase from 2.89 percent of outstanding energy loans at December 31, 2015.
- Nonperforming assets that are not guaranteed by U.S. government agencies totaled $252 million or 1.59 percent of outstanding loans and repossessed assets (excluding those guaranteed by U.S. government agencies) at March 31, 2016 and $156 million or 0.99 percent of outstanding loans and repossessed assets (excluding those guaranteed by U.S. government agencies) at December 31, 2015. Nonperforming energy loans increased $98 million during the first quarter.
- Average loans increased by $405 million over the previous quarter due primarily to a $244 million increase in commercial loans and a $177 million increase in commercial real estate loans. Period-end outstanding loan balances

were $16.0 billion at March 31, 2016, a $81 million increase over December 31, 2015. Commercial real estate loans increased $111 million, and commercial loan balances increased $36 million. Personal loans decreased $58 million.

- Average deposit balances were largely unchanged compared to the previous quarter. Decreased demand and time deposit balances were offset by growth in interest-bearing transaction accounts. Period-end deposits were $20.4 billion at March 31, 2016, a decrease of $670 million compared to December 31, 2015. The overall decrease in period-end deposits was due to normal post-year-end activity and reductions in balances held by energy-related customers.
- The Company's common equity Tier 1 ratio was 12.00% at March 31, 2016. In addition, the Company's Tier 1 capital ratio was 12.00%, total capital ratio was 13.21% and leverage ratio was 9.12% at March 31, 2016. The Company's common equity Tier 1 ratio was 12.13% at December 31, 2015. In addition, the Company's Tier 1 capital ratio was 12.13%, total capital ratio was 13.30% and leverage ratio was 9.25% at December 31, 2015.
- The Company paid a regular quarterly cash dividend of $28 million or $0.43 per common share during the first quarter of 2016. On April 26, 2016, the board of directors approved a regular quarterly cash dividend of $0.43 per common share payable on or about May 27, 2016 to shareholders of record as of May 13, 2016.

Results of Operations

Net Interest Revenue and Net Interest Margin

Net interest revenue is the interest earned on debt securities, loans and other interest-earning assets less interest paid for interest-bearing deposits and other borrowings. The net interest margin is calculated by dividing tax-equivalent net interest revenue by average interest-earning assets. Net interest spread is the difference between the average rate earned on interest-earning assets and the average rate paid on interest-bearing liabilities. Net interest margin is typically greater than net interest spread due to interest income earned on assets funded by non-interest bearing liabilities such as demand deposits and equity.

Net interest revenue totaled $182.6 million for the first quarter of 2016 compared to $167.7 million for the first quarter of 2015 and $181.3 million for the fourth quarter of 2015. Net interest margin was 2.65 percent for the first quarter of 2016, 2.55 percent for the first quarter of 2015 and 2.64 percent for the fourth quarter of 2015.

Net interest revenue increased $14.8 million over the first quarter of 2015. Net interest revenue increased $12.9 million primarily due to the growth in average loan balances, partially offset by increased borrowings. Net interest revenue increased $3.4 million due to a change in rates primarily from the full quarter impact of the increase in the federal funds rate by the Federal Reserve in the fourth quarter of 2015.

The tax-equivalent yield on earning assets was 2.92 percent for the first quarter of 2016, up 12 basis points over the first quarter of 2015. The available for sale securities portfolio yield increased 10 basis points to 2.08 percent. The yield on interest-bearing cash and cash equivalents increased 26 basis points. Loan yields decreased 2 basis points, primarily due to growth in variable-rate loans and continued repricing in the low rate environment. Funding costs were up 2 basis points over the first quarter of 2015. The cost of interest-bearing deposits decreased 3 basis points and the cost of other borrowed funds increased 25 basis points largely due to the mix of funding sources. The cost of subordinated debentures decreased 126 basis points as $122 million of fixed-rate subordinated debt matured on June 1, 2015. The cost of this subordinated debt was 5.56 percent. The benefit to net interest margin from earning assets funded by non-interest bearing liabilities was 13 basis points for the first quarter of 2016, unchanged compared to the first quarter of 2015.

Average earning assets for the first quarter of 2016 increased $1.3 billion or 5 percent over the first quarter of 2015. Average loans, net of allowance for loan losses, increased $1.4 billion due primarily to growth in average commercial and commercial real estate loans. The average balance of available for sale securities decreased $150 million and the average balance of restricted equity securities increased $115 million. The average balances of trading securities and fair value option securities held as an economic hedge of our mortgage servicing rights also increased, offset by decreases in residential mortgage loans held for sale, investment securities and interest-bearing cash and cash equivalents.

Average deposits decreased $622 million over the first quarter of 2015. Average interest-bearing transaction accounts decreased $582 million and average time deposits decreased $293 million, partially offset by a $220 million increase in average demand deposit balances. Average savings account balances also grew over the prior year. Average borrowed funds increased $2.2 billion over the first quarter of 2015, primarily due to increased borrowings from the Federal Home Loan Banks. The average balance of subordinated debentures decreased $122 million.

Net interest margin increased 1 basis point over the fourth quarter of 2015. The yield on average earning assets increased 6 basis points. The loan portfolio yield increased 2 basis points to 3.57 percent. The yield on the available for sale securities portfolio increased 4 basis points to 2.08 percent. Funding costs were 0.40 percent, up 6 basis points over the prior quarter. The benefit to net interest margin from earning assets funded by non-interest bearing liabilities increased 1 basis point. Increased earning asset yields and funding costs were primarily related to the full quarter impact of the increase in the federal funds rate by the Federal Reserve in the fourth quarter of 2015.

Average earning assets increased $464 million during the first quarter of 2016, primarily due to growth in average outstanding loans of $405 million over the previous quarter. Average commercial loan balances increased $244 million and average commercial real estate loan balances increased $177 million. The average balance of interest-bearing cash and cash equivalents increased $57 million. Trading securities balances were up $38 million and the average balance of restricted equity securities increased $32 million. This growth was partially offset by a $21 million decrease in the average balance of residential mortgage loans held for sale, a $20 million decrease in the average balance of the available for sale securities portfolio and a $15 million decrease in average investment securities balances.

Average deposits decreased $79 million compared to the previous quarter. Demand deposit balances decreased $207 million and time deposit balances decreased $116 million, partially offset by a $229 million increase in interest-bearing transaction account balances. The average balance of borrowed funds increased $704 million over the fourth quarter of 2015, primarily due to increased borrowings from the Federal Home Loan Banks and increased federal funds sold and repurchase agreement balances.

Our overall objective is to manage the Company’s balance sheet to be relatively neutral to changes in interest rates as is further described in the Market Risk section of this report. More than three-fourths of our commercial and commercial real estate loan portfolios are either variable rate or fixed rate that will re-price within one year. These loans are funded primarily by deposit accounts that are either non-interest bearing, or that re-price more slowly than the loans. The result is a balance sheet that would be asset sensitive, which means that assets generally re-price more quickly than liabilities. Among the strategies that we use to manage toward a relatively rate-neutral position, we purchase fixed rate residential mortgage-backed securities issued primarily by U.S. government agencies and fund them with market rate sensitive liabilities. The liability-sensitive nature of this strategy provides an offset to the asset-sensitive characteristics of our loan portfolio. We also may use derivative instruments to manage our interest rate risk.

The effectiveness of these strategies is reflected in the overall change in net interest revenue due to changes in interest rates as shown in Table 1 and in the interest rate sensitivity projections as shown in the Market Risk section of this report.

Table 1 -- Volume/Rate Analysis
(In thousands)

	Three Months Ended March 31, 2016 / 2015		
		Change Due To[1]	
	Change	Volume	Yield / Rate
Tax-equivalent interest revenue:			
Interest-bearing cash and cash equivalents	$1,284	$(48)	$1,332
Trading securities	42	64	(22)
Investment securities:			
Taxable securities	(151)	(161)	10
Tax-exempt securities	420	(205)	625
Total investment securities	269	(366)	635
Available for sale securities:			
Taxable securities	1,827	(528)	2,355
Tax-exempt securities	(45)	(152)	107
Total available for sale securities	1,782	(680)	2,462
Fair value option securities	586	486	100
Restricted equity securities	1,714	1,662	52
Residential mortgage loans held for sale	(249)	(519)	270
Loans	13,228	13,410	(182)
Total tax-equivalent interest revenue	18,656	14,009	4,647
Interest expense:			
Transaction deposits	852	(162)	1,014
Savings deposits	(1)	8	(9)
Time deposits	(2,414)	(911)	(1,503)
Funds purchased	60	19	41
Repurchase agreements	(15)	(37)	22
Other borrowings	5,354	2,751	2,603
Subordinated debentures	(1,455)	(563)	(892)
Total interest expense	2,381	1,105	1,276
Tax-equivalent net interest revenue	16,275	12,904	3,371
Change in tax-equivalent adjustment	1,429		
Net interest revenue	$14,846		

[1] Changes attributable to both volume and yield/rate are allocated to both volume and yield/rate on an equal basis.

Other Operating Revenue

Other operating revenue was $159.7 million for the first quarter of 2016, a $6.3 million decrease compared to the first quarter of 2015 and a $1.4 million decrease compared to the fourth quarter of 2015. Fees and commissions revenue decreased $364 thousand over the first quarter of 2015 and increased $9.8 million compared to the prior quarter. The change in the fair value of mortgage servicing rights, net of economic hedges, decreased other operating revenue by $11.4 million in the first quarter of 2016, decreased other operating revenue by $5.0 million in the first quarter of 2015 and increased other operating revenue by $2.6 million in the fourth quarter of 2015.

Table 2 – Other Operating Revenue
(In thousands)

	Three Months Ended March 31,				Three Months Ended		
	2016	2015	Increase (Decrease)	% Increase (Decrease)	Dec. 31, 2015	Increase (Decrease)	% Increase (Decrease)
Brokerage and trading revenue	$32,341	$31,707	$634	2%	$30,255	$2,086	7%
Transaction card revenue	32,354	31,010	1,344	4%	32,319	35	—%
Fiduciary and asset management revenue	32,056	31,469	587	2%	31,165	891	3%
Deposit service charges and fees	22,542	21,684	858	4%	22,813	(271)	(1)%
Mortgage banking revenue	34,430	39,320	(4,890)	(12)%	25,039	9,391	38%
Bank-owned life insurance	2,170	2,198	(28)	(1)%	2,348	(178)	(8)%
Other revenue	9,734	8,603	1,131	13%	11,885	(2,151)	(18)%
Total fees and commissions revenue	165,627	165,991	(364)	—%	155,824	9,803	6%
Other gains, net	1,560	755	805	N/A	2,329	(769)	N/A
Gain (loss) on derivatives, net	7,138	911	6,227	N/A	(732)	7,870	N/A
Gain (loss) on fair value option securities, net	9,443	2,647	6,796	N/A	(4,127)	13,570	N/A
Change in fair value of mortgage servicing rights	(27,988)	(8,522)	(19,466)	N/A	7,416	(35,404)	N/A
Gain on available for sale securities, net	3,964	4,327	(363)	N/A	2,132	1,832	N/A
Total other-than-temporary impairment	—	(781)	781	N/A	(2,114)	2,114	N/A
Portion of loss recognized in (reclassified from) other comprehensive income	—	689	(689)	N/A	387	(387)	N/A
Net impairment losses recognized in earnings	—	(92)	92	N/A	(1,727)	1,727	N/A
Total other operating revenue	$159,744	$166,017	$(6,273)	(4)%	$161,115	$(1,371)	(1)%

Certain percentage increases (decreases) in non-fees and commissions revenue are not meaningful for comparison purposes based on the nature of the item.

Fees and commissions revenue

Diversified sources of fees and commissions revenue are a significant part of our business strategy and represented 48 percent of total revenue for the first quarter of 2016, excluding provision for credit losses and gains and losses on other assets, securities and derivatives and the change in the fair value of mortgage servicing rights. We believe that a

variety of fee revenue sources provides an offset to changes in interest rates, values in the equity markets, commodity prices and consumer spending, all of which can be volatile. As an example of this strength, many of the economic factors that cause net interest revenue compression such as falling interest rates may also drive growth in our mortgage banking revenue. We expect growth in other operating revenue to come through offering new products and services and by further development of our presence in other markets. However, current and future economic conditions, regulatory constraints, increased competition and saturation in our existing markets could affect the rate of future increases.

Brokerage and trading revenue includes revenues from securities trading, customer hedging, retail brokerage and investment banking. Brokerage and trading revenue increased $634 thousand over the first quarter of 2015.

Securities trading revenue was $12.9 million for the first quarter of 2016, an increase of $3.0 million or 30 percent over the first quarter of 2015. Securities trading revenue includes net realized and unrealized gains primarily related to sales of U.S. government securities, residential mortgage-backed securities guaranteed by U.S. government agencies and municipal securities to institutional customers.

Customer hedging revenue is based primarily on realized and unrealized changes in the fair value of derivative contracts held for customer risk management programs. As more fully discussed under Customer Derivative Programs in Note 3 of the Consolidated Financial Statements, we offer commodity, interest rate, foreign exchange and equity derivatives to our customers. Customer hedging revenue totaled $8.9 million for the first quarter of 2016, a $1.5 million decrease compared to the first quarter of 2015 primarily due to lower hedging activity by our mortgage banking and energy customers.

Revenue earned from retail brokerage transactions decreased $334 thousand or 5 percent compared to the first quarter of 2015 to $6.5 million. Retail brokerage revenue is primarily based on fees and commissions earned on sales of fixed income securities, annuities and mutual funds to retail customers. Revenue is primarily based on the volume of customer transactions and applicable commission rate for each product type. The decrease in revenue from changes in product mix to products that pay a lower commission rate was partially offset by transaction volume growth. In addition, volume has shifted from sales of products that pay a one-time transaction fee to accounts that pay us an on-going management fee.

Investment banking revenue, which includes fees earned upon completion of underwriting and financial advisory services and loan syndication fees, totaled $4.1 million for the first quarter of 2016, a $556 thousand or 12 percent decrease compared to the first quarter of 2015, primarily related to the timing and volume of completed transactions.

Brokerage and trading revenue increased $2.1 million over the fourth quarter of 2015. Securities trading revenue increased $1.2 million primarily related to increased transaction volume in mortgage-backed and U.S. Treasury securities. Investment banking fees increased $936 thousand compared to the prior quarter primarily due to increased financial advisory fees. Retail brokerage fees were up $691 thousand over the prior quarter and customer hedging revenue decreased $779 thousand.

Transaction card revenue depends largely on the volume and amount of transactions processed, the number of TransFund automated teller machine (“ATM”) locations and the number of merchants served. Transaction card revenue for the first quarter of 2016 increased $1.3 million or 4 percent over the first quarter of 2015. Revenues from the processing of transactions on behalf of the members of our TransFund electronic funds transfer ("EFT") network totaled $16.5 million, a $514 thousand or 3 percent increase over the prior year. Merchant services fees totaled $11.2 million, an increase of $743 thousand or 7 percent based on increased transaction activity. Revenue from interchange fees paid by merchants for transactions processed from debit cards issued by the Company totaled $4.7 million, an increase of $87 thousand or 2 percent over the first quarter of 2015.

Transaction card revenue was largely unchanged compared to the fourth quarter of 2015. Growth in merchant services fees was offset by lower interchange fee revenue from debit cards issued by the Company and decreased EFT network revenues.

Fiduciary and asset management revenue increased $587 thousand or 2 percent over the first quarter of 2015 primarily due to decreased fee waivers. We earn fees as administrator to and investment adviser for the Cavanal Hill Funds, a diversified, open-ended investment company established as a business trust under the Investment Company Act of 1940. The Bank is custodian and BOSC, Inc. is distributor for the Cavanal Hill Funds. Products of the Cavanal Hill Funds are offered to customers, employee benefit plans, trusts and the general public in the ordinary course of business. We have voluntarily waived administration fees on the Cavanal Hill money market funds in order to

maintain positive yields on these funds in the current low short-term interest rate environment. Waived fees totaled $2.0 million for the first quarter of 2016 compared to $2.7 million for the first quarter of 2015 and $3.5 million for the fourth quarter of 2015. The decrease in fee waivers was related to increased interest rates as a result of the Federal Reserve's federal funds rate increase in the fourth quarter of 2015.

Fiduciary and asset management revenue increased $891 thousand over the fourth quarter of 2015 primarily due decreased fee waivers.

The fair value of fiduciary assets administered by the Company totaled $39.1 billion at March 31, 2016, $37.5 billion at March 31, 2015 and $38.3 billion at December 31, 2015. Fiduciary assets are assets for which the Company possesses investment discretion on behalf of another or any other similar capacity.

Deposit service charges and fees were $22.5 million for the first quarter of 2016, an increase of $858 thousand or 4 percent over the first quarter of 2015. Overdraft fees were $9.6 million for the first quarter of 2016, an increase of $180 thousand or 2 percent compared to the first quarter of 2015. Commercial account service charge revenue totaled $11.3 million, up $786 thousand or 8 percent over the prior year. Service charges on deposit accounts with a standard monthly fee were $1.7 million, a decrease of $112 thousand or 6 percent compared to the first quarter of 2015. Deposit service charges and fees decreased by $271 thousand compared to the prior quarter primarily due to a seasonal decrease in overdraft fee volumes.

Mortgage banking revenue decreased $4.9 million compared to the first quarter of 2015. Mortgage production revenue decreased $7.1 million largely due to lower production activity and decreased percentage of higher-margin mortgage loan refinances. The percentage of refinanced mortgage loans was 49 percent in the first quarter of 2016 compared to 56 percent in the first quarter of 2015. Mortgage servicing revenue grew by $2.2 million or 16 percent over the first quarter of 2015. The outstanding principal balance of mortgage loans serviced for others totaled $20.3 billion, an increase of $3.4 billion or 20 percent.

Mortgage banking revenue increased $9.4 million over the fourth quarter of 2015. Mortgage production revenue increased $8.9 million primarily due to the increased volume of mortgage loan commitments during the quarter. Outstanding mortgage loan commitments at March 31, 2016 were $302 million higher than at December 31, 2015. Total mortgage loans originated during the first quarter of 2016 decreased $121 million compared to the previous quarter. Revenue from mortgage loan servicing grew by $504 thousand due to an increase in the volume of loans serviced. The outstanding balance of mortgage loans serviced for others increased $616 million over December 31, 2015.

Table 3 – Mortgage Banking Revenue
(In thousands)

	Three Months Ended March 31,		Increase (Decrease)	% Increase (Decrease)	Three Months Ended Dec. 31, 2015	Increase (Decrease)	% Increase (Decrease)
	2016	2015					
Net realized gains on mortgage loans sold	$10,779	$17,251	$(6,472)	(38)%	$15,705	$(4,926)	(31)%
Change in net unrealized gains on mortgage loans held for sale	8,198	8,789	(591)	(7)%	(5,615)	13,813	246 %
Total mortgage production revenue	18,977	26,040	(7,063)	(27)%	10,090	8,887	88 %
Servicing revenue	15,453	13,280	2,173	16 %	14,949	504	3 %
Total mortgage revenue	$34,430	$39,320	$(4,890)	(12)%	$25,039	$9,391	38 %
Mortgage loans funded for sale	$1,244,015	$1,565,016	$(321,001)	(21)%	$1,365,431	$(121,416)	(9)%
Mortgage loans sold	1,239,391	1,382,042	(142,651)	(10)%	1,424,527	(185,136)	(13)%
Period end outstanding mortgage commitments, net	902,986	824,036	78,950	10 %	601,147	301,839	50 %

Outstanding principal balance of mortgage loans serviced for others	20,294,662	16,937,128	3,357,534	20 %	19,678,226	616,436	3 %
Primary residential mortgage interest rate – period end	3.71 %	3.69 %	2 bps		3.96 %	(25) bps	
Primary residential mortgage interest rate – average	3.74 %	3.73 %	1 bps		3.89 %	(15) bps	
Secondary residential mortgage interest rate – period end	2.57 %	2.75 %	(18) bps		3.03 %	(46) bps	
Secondary residential mortgage interest rate – average	2.70 %	2.69 %	1 bps		2.91 %	(21) bps	

Primary rates disclosed in Table 3 above represent rates generally available to borrowers on 30 year conforming mortgage loans. Secondary rates generally represent yields on 30 year residential mortgage-backed securities guaranteed by U.S. government agencies.

Other revenue increased $1.1 million over the first quarter of 2015, primarily due to revenue from a merchant banking investment acquired in the second quarter of 2015. Other revenue decreased $2.2 million compared to the fourth quarter of 2015.

Net gains on securities, derivatives and other assets

In the first quarter of 2016, we recognized a $4.0 million net gain from sales of $469 million of available for sale securities. Securities were sold either because they had reached their expected maximum potential or to move into securities that are expected to perform better in the current rate environment. In the first quarter of 2015, we recognized a $4.3 million net gain from sales of $335 million of available for sale securities and in the fourth quarter of 2015, we recognized a $2.1 million net gain on sales of $436 million of available for sale securities.

We also maintain a portfolio of residential mortgage-backed securities issued by U.S. government agencies and interest rate derivative contracts designated as an economic hedge of the changes in the fair value of our mortgage servicing rights. The fair value of our mortgage servicing rights fluctuates due to changes in prepayment speeds and other assumptions as more fully described in Note 6 to the Consolidated Financial Statements. As benchmark mortgage rates increase, prepayment speeds slow and the value of our mortgage servicing rights increases. As benchmark mortgage rates fall, prepayment speeds increase and the value of our mortgage servicing rights decreases.

Changes in the fair value of mortgage servicing rights are highly dependent on changes in primary mortgage rates, rates offered to borrowers, and assumptions about servicing revenues, servicing costs and discount rates. Changes in the fair value of residential mortgage-backed securities are highly dependent on changes in secondary mortgage rates, or rates required by investors and interest rate derivative contracts are highly dependent on changes in other market interest rates. While primary and secondary mortgage rates generally move in the same direction, the spread between them may widen and narrow due to market conditions and government intervention. Changes in the forward-looking spread between the primary and secondary rates can cause significant earnings volatility. Additionally, the fair value of mortgage servicing rights is dependent on short-term interest rates that affect the value of custodial funds. Changes in the spread between short-term and long-term interest rates can also cause significant earnings volatility.

Table 4 following shows the relationship between changes in the fair value of mortgage servicing rights and the fair value of fair value option residential mortgage-backed securities and interest rate derivative contracts designated as an economic hedge. Both period end primary and secondary mortgage rates fell during the first quarter of 2016. However, we observed a narrowing in the forward-looking spread between primary and secondary mortgage interest rates. A narrowing spread between primary and secondary mortgage interest rates decreases the fair value of mortgage servicing rights and is a risk that we cannot effectively hedge.

Table 4 - Gain (Loss) on Mortgage Servicing Rights
(In thousands)

	Three Months Ended		
	March 31, 2016	Dec. 31, 2015	March 31, 2015
Gain (loss) on mortgage hedge derivative contracts, net	$7,138	$(732)	$911
Gain (loss) on fair value option securities, net	9,443	(4,127)	2,647
Gain (loss) on economic hedge of mortgage servicing rights, net	16,581	(4,859)	3,558
Gain (loss) on change in fair value of mortgage servicing rights	(27,988)	7,416	(8,522)
Gain (loss) on changes in fair value of mortgage servicing rights, net of economic hedges	$(11,407)	$2,557	$(4,964)
Net interest revenue on fair value option securities	$2,033	$2,137	$1,739

Other Operating Expense

Other operating expense for the first quarter of 2016 totaled $244.9 million, a $24.6 million or 11 percent increase over the first quarter of 2015. Personnel expenses increased $7.3 million or 6 percent. Non-personnel expenses increased $17.3 million or 19 percent over the prior year.

Operating expenses increased $12.3 million compared to the previous quarter. Personnel expense increased $2.7 million. Non-personnel expense increased $9.7 million.

Table 5 -- Other Operating Expense
(In thousands)

	Three Months Ended March 31, 2016	Three Months Ended March 31, 2015	Increase (Decrease)	% Increase (Decrease)	Three Months Ended Dec. 31, 2015	Increase (Decrease)	% Increase (Decrease)
Regular compensation	$81,167	$77,762	$3,405	4 %	$80,314	$853	1 %
Incentive compensation:							
Cash-based	30,444	26,941	3,503	13 %	30,137	307	1 %
Share-based	2,022	2,140	(118)	(6)%	4,276	(2,254)	(53)%
Deferred compensation	69	130	(61)	N/A	652	(583)	N/A
Total incentive compensation	32,535	29,211	3,324	11 %	35,065	(2,530)	(7)%
Employee benefits	22,141	21,575	566	3 %	17,803	4,338	24 %
Total personnel expense	135,843	128,548	7,295	6 %	133,182	2,661	2 %
Business promotion	5,696	5,748	(52)	(1)%	8,416	(2,720)	(32)%
Professional fees and services	11,759	10,059	1,700	17 %	10,357	1,402	14 %
Net occupancy and equipment	18,766	19,044	(278)	(1)%	19,356	(590)	(3)%
Insurance	7,265	4,980	2,285	46 %	5,415	1,850	34 %
Data processing and communications	32,017	29,772	2,245	8 %	31,248	769	2 %
Printing, postage and supplies	3,907	3,461	446	13 %	3,108	799	26 %
Net losses and operating expenses of repossessed assets	1,070	613	457	75 %	343	727	212 %
Amortization of intangible assets	1,159	1,090	69	6 %	1,090	69	6 %
Mortgage banking costs	12,379	10,167	2,212	22 %	11,496	883	8 %
Other expense	15,039	6,783	8,256	122 %	8,547	6,492	76 %
Total other operating expense	$244,900	$220,265	$24,635	11 %	$232,558	$12,342	5 %
Average number of employees (full-time equivalent)	4,821	4,744	77	2 %	4,819	2	— %

Certain percentage increases (decreases) are not meaningful for comparison purposes.

Personnel expense

Regular compensation, which consists of salaries and wages, overtime pay and temporary personnel costs, increased $3.4 million or 4 percent over the first quarter of 2015. The average number of employees increased 2 percent over the prior year. Recent additions have primarily been higher-costing positions in compliance and risk management and technology. In addition, standard annual merit increases in regular compensation were effective for the majority of our staff on March 1.

Incentive compensation increased $3.3 million or 11 percent over the first quarter of 2015. Cash-based incentive compensation plans are either intended to provide current rewards to employees who generate long-term business opportunities for the Company based on growth in loans, deposits, customer relationships and other measurable metrics or intended to compensate employees with commissions on completed transactions. Total cash-based incentive compensation increased $3.5 million or 13 percent over the first quarter of 2015.

Share-based compensation expense represents expense for equity awards based on grant-date fair value. Non-vested shares awarded prior to 2013 generally cliff vest in 5 years. Non-vested shares awarded since January 1, 2013 generally cliff vest in 3 years and are subject to a two year holding period after vesting. Share-based compensation expense decreased $118 thousand compared to the prior year.

Employee benefit expense increased $566 thousand or 3 percent over the first quarter of 2015 primarily due to increased employee retirement plan and payroll tax expense, partially offset by lower employee medical costs. Personnel costs increased by $2.7 million over the fourth quarter of 2015, primarily due to a $4.2 million seasonal increase in payroll taxes, partially offset by a $2.5 million decrease in incentive compensation expense. Regular compensation expense increased $853 thousand over the prior quarter.

Non-personnel operating expenses

Non-personnel operating expenses increased $17.3 million or 19 percent over the first quarter of 2015. Other expense increased $8.3 million. We increased litigation accruals by $4.1 million during the first quarter of 2016 for matters previously disclosed in notes to our financial statements due to additional information received during the quarter. We also recorded $2.7 million of post-acquisition valuation adjustments to a consolidated merchant banking investment, $1.1 million of which is attributable to non-controlling interests. Deposit insurance expense increased $2.3 million, primarily due to an increase in criticized and classified assets, an input to the deposit insurance assessment. The increase in criticized and classified assets was related to falling energy prices and overall asset growth. Data processing and communications expense increased $2.2 million due to increased transaction activity. Mortgage banking costs increased $2.2 million due to increased mortgage servicing costs. Professional fees and services expense increased $1.7 million.
Non-personnel expense increased $9.7 million compared to the fourth quarter of 2015. Other expense increased $6.5 million due to litigation accruals and post-acquisition valuation adjustments to a consolidated merchant banking investment. Deposit insurance expense increased $1.9 million and professional fees and services expense increased $1.4 million, partially offset by a $2.7 million seasonal decrease in business promotion expense.

Income Taxes

Income tax expense was $21.4 million or 34.3% of book taxable income for the first quarter of 2016 compared to $38.4 million or 33.8% of book taxable income for the first quarter of 2015 and $26.2 million or 30.1% of book taxable income for the fourth quarter of 2015. Income tax expense as a percentage of net income before taxes was lower in the first quarter of 2016 compared to the first quarter of 2015 primarily due to lower income before taxes. Income tax expense as a percentage of net income before taxes was lower in the fourth quarter of 2015 compared to the first quarter of 2015 primarily due to a decrease in net income before taxes during the fourth quarter of 2015. This resulted in a year-to-date decrease in income tax expense that was recognized in the fourth quarter of 2015.

The Company's effective tax rate is affected by recurring items such as amortization related to its investment in afforable housing investment, net of affordable housing tax credit and other tax benefits, bank-owned life insurance and tax-exempt income. The effective tax rate is also affected by items that may occur in any given period but are not consistent from period to period. Accordingly, the comparability of the effective tax rate from period to period may be impacted.

BOK Financial operates in numerous jurisdictions, which requires judgment regarding the allocation of income, expense and earnings under various laws and regulations of each of these taxing jurisdictions. Each jurisdiction may audit our tax returns and may take different positions with respect to these allocations. The reserve for uncertain tax positions was $13 million at March 31, 2016, $13 million at December 31, 2015, and $14 million at March 31, 2015.

Lines of Business

We operate three principal lines of business: Commercial Banking, Consumer Banking and Wealth Management. Commercial Banking includes lending, treasury and cash management services and customer risk management products for small businesses, middle market and larger commercial customers. Commercial Banking also includes the TransFund EFT network. Consumer Banking includes retail lending and deposit services, lending and deposit services to small business customers served through our consumer branch network and all mortgage banking activities. Wealth Management provides fiduciary services, private banking services and investment advisory services in all markets. Wealth Management also underwrites state and municipal securities and engages in brokerage and trading activities.

In addition to our lines of business, we have a Funds Management unit. The primary purpose of this unit is to manage our overall liquidity needs and interest rate risk. Each line of business borrows funds from and provides funds to the Funds Management unit as needed to support their operations. Operating results for Funds Management and other include the effect of interest rate risk positions and risk management activities, securities gains and losses including impairment charges, the provision for credit losses in excess of net loans charged off, tax planning strategies and certain executive compensation costs that are not attributed to the lines of business.

We allocate resources and evaluate the performance of our lines of business using the net direct contribution which includes the allocation of funds, actual net credit losses and capital costs. In addition, we measure the performance of our business lines after allocation of certain indirect expenses and taxes based on statutory rates.

The cost of funds borrowed from the Funds Management unit by the operating lines of business is transfer priced at rates that approximate market rates for funds with similar duration. Market rates are generally based on the applicable LIBOR or interest rate swap rates, adjusted for prepayment risk. This method of transfer-pricing funds that support assets of the operating lines of business tends to insulate them from interest rate risk.

The value of funds provided by the operating lines of business to the Funds Management unit is also based on rates which approximate wholesale market rates for funds with similar duration and re-pricing characteristics. Market rates are generally based on LIBOR or interest rate swap rates. The funds credit formula applied to deposit products with indeterminate maturities is established based on their re-pricing characteristics reflected in a combination of the short-term LIBOR rate and a moving average of an intermediate term swap rate, with an appropriate spread applied to both. Shorter duration products are weighted towards the short term LIBOR rate and longer duration products are weighted towards the intermediate swap rates. The expected duration ranges from 30 days for certain rate-sensitive deposits to five years.

Economic capital is assigned to the business units by a capital allocation model that reflects management’s assessment of risk. This model assigns capital based upon credit, operating, interest rate and other market risk inherent in our business lines and recognizes the diversification benefits among the units. The level of assigned economic capital is a combination of the risk taken by each business line, based on its actual exposures and calibrated to its own loss history where possible. Average invested capital includes economic capital and amounts we have invested in the lines of business.

As shown in Table 6, net income attributable to our lines of business decreased $20.2 million or 31 percent compared to the first quarter of 2015. Net interest revenue grew by $19.1 million over the prior year. This was offset by a $30.6 million increase in net charge-offs primarily due to energy loans and an $18.9 million increase in operating expense primarily due to increased litigation accruals, increased mortgage banking expense, and a post-acquisition valuation adjustment on a consolidated merchant banking investment.

Table 6 -- Net Income by Line of Business
(In thousands)

	Three Months Ended March 31,	
	2016	2015
Commercial Banking	$37,115	$48,603
Consumer Banking	119	7,281
Wealth Management	6,977	8,526
Subtotal	44,211	64,410
Funds Management and other	(1,647)	10,433
Total	$42,564	$74,843

Commercial Banking

Commercial Banking contributed $37.1 million to consolidated net income in the first quarter of 2016, a decrease of $11.5 million or 24% compared to the first quarter of 2015. Increased loan charge-offs and higher operating expenses were partially offset by growth in net interest revenue and fees and commissions revenue. Commercial Banking net loans charged off were $21.6 million in the first quarter of 2016 compared to a net recovery $8.9 million in the first quarter of 2015. The increase was primarily related to energy portfolio loans.

Table 7 -- Commercial Banking
(Dollars in thousands)

	Three Months Ended March 31,		Increase (Decrease)
	2016	2015	
Net interest revenue from external sources	$116,637	$101,175	$15,462
Net interest expense from internal sources	(14,534)	(12,635)	(1,899)
Total net interest revenue	102,103	88,540	13,563
Net loans charged off (recovered)	21,572	(8,902)	30,474
Net interest revenue after net loans charged off (recovered)	80,531	97,442	(16,911)
Fees and commissions revenue	45,476	42,302	3,174
Other gains (losses), net	(368)	144	(512)
Other operating revenue	45,108	42,446	2,662
Personnel expense	26,628	26,250	378
Non-personnel expense	29,441	22,895	6,546
Other operating expense	56,069	49,145	6,924
Net direct contribution	69,570	90,743	(21,173)
Gain (loss) on repossessed assets, net	(82)	45	(127)
Corporate expense allocations	8,744	11,241	(2,497)
Income before taxes	60,744	79,547	(18,803)
Federal and state income tax	23,629	30,944	(7,315)
Net income	$37,115	$48,603	$(11,488)
Average assets	$16,969,015	$16,270,266	$698,749
Average loans	13,317,338	11,892,703	1,424,635
Average deposits	8,457,750	8,995,036	(537,286)
Average invested capital	1,155,572	994,596	160,976

Net interest revenue increased $13.6 million or 15% over the prior year. Growth in net interest revenue was primarily due to a $1.4 billion or 12% increase in average loan balances and a $537 million or 6% decrease in average deposit balances.

Fees and commissions revenue grew by $3.2 million or 8% over the first quarter of 2015. Other revenue increased $1.6 million primarily related to merchant banking activity. Transaction card revenues from our TransFund electronic funds transfer network increased $1.2 million. Commercial deposit service charge revenue was up $701 thousand.

Operating expenses increased $6.9 million or 14% over the the first quarter of 2015. Personnel expense increased $378 thousand or 1% primarily due to increased incentive compensation expense and standard annual merit increases.

Non-personnel expense grew by $6.5 million or 29%. The first quarter of 2016 included $3.9 million of litigation settlements and $2.7 million of post-acquisition valuation adjustments to a consolidated merchant banking investment. Corporate expense allocations decreased $2.5 million compared to the prior year.

The average outstanding balance of loans attributed to Commercial Banking grew by $1.4 billion or 12% over the first quarter of 2015 to $13.3 billion. See the Loans section of Management's Discussion and Analysis of Financial Condition following for additional discussion of changes in commercial and commercial real estate loans which are primarily attributed to the Commercial Banking segment.

Average deposits attributed to Commercial Banking were $8.5 billion for the first quarter of 2016, a decrease of $537 million or 6% compared to the first quarter of 2015. Commercial customers continue to maintain high account balances due to continued economic uncertainty and persistently low yields available on high quality investments.

Consumer Banking

Consumer Banking provides retail banking services through four primary distribution channels: traditional branches, the 24-hour ExpressBank call center, Internet banking and mobile banking. Consumer Banking also conducts mortgage banking activities through offices located outside of our consumer banking markets, through correspondent loan originators and through Home Direct Mortgage, an online origination channel.

Consumer Banking contributed $119 thousand to consolidated net income for the first quarter of 2016 compared to $7.3 million in the first quarter of 2015.

Changes in the fair value of our mortgage servicing rights, net of economic hedge, resulted in a $7.0 million decrease in Consumer Banking net income in the first quarter of 2016 compared to a $3.0 million decrease in Consumer Banking net income in the first quarter of 2015. Mortgage banking revenue was $4.9 million lower than in the prior year. Growth in net interest revenue and lower corporate expense allocations were partially offset by increased operating expense.

Table 8 -- Consumer Banking
(Dollars in thousands)

	Three Months Ended March 31,		Increase (Decrease)
	2016	2015	
Net interest revenue from external sources	$21,465	$20,719	$746
Net interest revenue from internal sources	9,353	6,819	2,534
Total net interest revenue	30,818	27,538	3,280
Net loans charged off	1,702	1,422	280
Net interest revenue after net loans charged off	29,116	26,116	3,000
Fees and commissions revenue	56,501	61,510	(5,009)
Other losses, net	(142)	(315)	173
Other operating revenue	56,359	61,195	(4,836)
Personnel expense	27,125	25,782	1,343
Non-personnel expense	30,923	26,524	4,399
Total other operating expense	58,048	52,306	5,742
Net direct contribution	27,427	35,005	(7,578)
Gain on financial instruments, net	16,581	3,558	13,023
Change in fair value of mortgage servicing rights	(27,988)	(8,522)	(19,466)
Gain on repossessed assets, net	153	78	75
Corporate expense allocations	15,978	18,202	(2,224)
Income before taxes	195	11,917	(11,722)
Federal and state income tax	76	4,636	(4,560)
Net income	$119	$7,281	$(7,162)
Average assets	$8,687,289	$8,798,913	$(111,624)
Average loans	1,883,904	1,940,293	(56,389)
Average deposits	6,575,893	6,621,377	(45,484)
Average invested capital	258,888	272,315	(13,427)

Net interest revenue from Consumer Banking activities grew by $3.3 million or 12% over the the first quarter of 2015 primarily due to increased rates on deposit balances sold to the Funds Management unit, partially offset by a $45 million or 1% decrease in average deposit balances. Average loan balances were $56 million or 3% lower than the prior year.

Fees and commissions revenue decreased $5.0 million or 8% compared to the first quarter of 2015, primarily due to a $4.9 million decrease in mortgage banking revenue. Mortgage loans funded for sale in the first quarter of 2016 were $321 million or 21% lower than in the first quarter of 2015. Revenue from interchange fees paid by merchants for transactions processed from debit cards issued by the Company increased $152 thousand or 3%. Deposit service charges and fees were largely unchanged compared to the prior year.

Operating expenses increased $5.7 million or 11% over the first quarter of 2015. Personnel expenses increased $1.3 million or 5%, primarily due to increases in regular compensation expense. Non-personnel expense increased $4.4 million or 17% over the prior year. Mortgage banking expense was up $2.2 million over the prior year due to increased mortgage repurchase accruals. Data processing and communications expense increased $1.1 million. Non-personnel expense also included $1.8 million of litigation settlements during the first quarter of 2016.

Professional fees and services expense was $644 thousand lower than in the prior year.

Corporate expense allocations decreased $2.2 million compared to the first quarter of 2015.

Average consumer deposits decreased $45 million or 1% compared to the first quarter of 2015. Average time deposit balances decreased $199 million or 14%. Average demand deposit balances grew by $74 million or 5%, average interest-bearing transaction accounts increased $51 million or 2% and average savings account balances increased $28 million or 8%.

Wealth Management

Wealth Management contributed $7.0 million to consolidated net income in the first quarter of 2016, up $1.5 million or 18% over the first quarter of 2015. Net interest revenue, brokerage and trading revenue and fiduciary and asset management revenue all grew over the prior year. This was partially offset by increased operating expenses and corporate expense allocations.

Table 9 -- Wealth Management
(Dollars in thousands)

	Three Months Ended March 31,		Increase (Decrease)
	2016	2015	
Net interest revenue from external sources	$6,078	$5,376	$702
Net interest revenue from internal sources	7,663	6,079	1,584
Total net interest revenue	13,741	11,455	2,286
Net loans charged off (recovered)	(150)	—	(150)
Net interest revenue after net loans charged off (recovered)	13,891	11,455	2,436
Fees and commissions revenue	68,721	66,904	1,817
Other gains, net	26	57	(31)
Other operating revenue	68,747	66,961	1,786
Personnel expense	45,119	42,415	2,704
Non-personnel expense	15,565	12,065	3,500
Other operating expense	60,684	54,480	6,204
Net direct contribution	21,954	23,936	(1,982)
Corporate expense allocations	10,535	9,982	553
Income before taxes	11,419	13,954	(2,535)
Federal and state income tax	4,442	5,428	(986)
Net income	$6,977	$8,526	$(1,549)
Average assets	$5,565,047	$5,451,695	$113,352
Average loans	1,090,326	1,035,229	55,097
Average deposits	4,696,013	4,701,302	(5,289)
Average invested capital	233,079	223,967	9,112

	March 31,		Increase (Decrease)
	2016	2015	
Fiduciary assets in custody for which BOKF has sole or joint discretionary authority	$13,847,023	$15,197,567	$(1,350,544)
Fiduciary assets not in custody for which BOKF has sole or joint discretionary authority	3,653,228	3,442,421	210,807

Non-managed trust assets in custody	21,613,054	18,871,758	2,741,296
Total fiduciary assets	39,113,305	37,511,746	1,601,559
Assets held in safekeeping	27,115,904	23,311,704	3,804,200
Brokerage accounts under BOKF administration	5,639,804	5,854,364	(214,560)
Assets under management or in custody	$71,869,013	$66,677,814	$5,191,199

Net interest revenue for the first quarter of 2016 increased $2.3 million or 20% over the first quarter of 2015. Average deposit balances were largely unchanged compared to the first quarter of 2015. Interest-bearing transaction account balances decreased $195 million or 7% and time deposit balances decreased $50 million or 7%. Non-interest bearing demand deposits grew by $239 million or 27%. Average loan balances increased $55 million or 5% over the prior year and rates improved.

Fees and commissions revenue was up $1.8 million or 3% over the first quarter of 2015, primarily due to a $1.6 million or 6% increase in brokerage and trading revenue. Fiduciary and asset management revenue increased $527 thousand or 2% over the prior year, partially offset by a $382 thousand or 8% decrease in other revenue.

Other operating revenue includes fees earned from state and municipal bond and corporate debt underwriting and financial advisory services, primarily in the Oklahoma and Texas markets. In the first quarter of 2016, the Wealth Management division participated in 74 state and municipal bond underwritings that totaled $5.4 billion. As a participant, the Wealth Management division was responsible for facilitating the sale of approximately $598 million of these underwritings. In the first quarter of 2015, the Wealth Management division participated in 93 state and municipal bond underwritings that totaled approximately $1.7 billion. Our interest in these underwritings totaled approximately $609 million. The Wealth Management division also participated in 5 corporate debt underwritings that totaled $5.9 billion. Our interest in these underwritings was $149 million.

Operating expenses increased $6.2 million or 11% over the first quarter of 2015. Personnel expenses increased $2.7 million, primarily due to incentive compensation expense. Non-personnel expense increased $3.5 million including $1.6 million of litigation accruals. Professional fees and services expense increased $1.3 million. Occupancy and equipment costs increased $454 thousand and data processing and communications expense increased $397 thousand.

Corporate expense allocations increased $553 thousand or 6% over the prior year.

Financial Condition

Securities

We maintain a securities portfolio to enhance profitability, manage interest rate risk, provide liquidity and comply with regulatory requirements. Securities are classified as trading, held for investment, or available for sale. See Note 2 to the consolidated financial statements for the composition of the securities portfolio as of March 31, 2016, December 31, 2015 and March 31, 2015.

At March 31, 2016, the carrying value of investment (held-to-maturity) securities was $576 million and the fair value was $610 million. Investment securities consist primarily of long-term, fixed rate Oklahoma and Texas municipal bonds, taxable Texas school construction bonds and residential mortgage-backed securities issued by U.S. government agencies. The investment security portfolio is diversified among issuers. The largest obligation of any single issuer is $30 million. Substantially all of these bonds are general obligations of the issuers. Approximately $105 million of the Texas school construction bonds are also guaranteed by the Texas Permanent School Fund Guarantee Program supervised by the State Board of Education for the State of Texas.

Available for sale securities, which may be sold prior to maturity, are carried at fair value. Unrealized gains or losses, net of deferred taxes, are recorded as accumulated other comprehensive income in shareholders’ equity. The amortized cost of available for sale securities totaled $8.7 billion at March 31, 2016, a decrease of $274 million compared to December 31, 2015. Available for sale securities consist primarily of U.S. government agency residential mortgage-backed securities and U.S. government agency commercial mortgage-backed securities. Commercial mortgage-backed securities have prepayment penalties similar to commercial loans. At March 31, 2016, residential mortgage-backed securities represented 66 percent of total available for sale securities.

A primary risk of holding residential mortgage-backed securities comes from extension during periods of rising interest rates or prepayment during periods of falling interest rates. We evaluate this risk through extensive modeling of risk both before making an investment and throughout the life of the security. Our best estimate of the duration of the combined residential mortgage-backed securities portfolio held in investment and available for sale securities at March 31, 2016 is 2.8 years. Management estimates the duration extends to 3.4 years assuming an immediate 200 basis point upward shock. The estimated duration contracts to 2.5 years assuming a 50 basis point decline in the current low rate environment.

Residential mortgage-backed securities also have credit risk from delinquency or default of the underlying loans. We mitigate this risk by primarily investing in securities issued by U.S. government agencies. Principal and interest payments on the underlying loans are fully guaranteed. At March 31, 2016, approximately $5.6 billion of the amortized cost of the Company's residential mortgage-backed securities were issued by U.S. government agencies. The fair value of these residential mortgage-backed securities totaled $5.7 billion at March 31, 2016.

We also hold amortized cost of $123 million in residential mortgage-backed securities privately issued by publicly-owned financial institutions, a decrease of $5.1 million from December 31, 2015. The decrease was due to cash payments received during the quarter. The fair value of our portfolio of privately issued residential mortgage-backed securities totaled $133 million at March 31, 2016.

The amortized cost of our portfolio of privately issued residential mortgage-backed securities included $69 million of Jumbo-A residential mortgage loans and $54 million of Alt-A residential mortgage loans. Jumbo-A residential mortgage loans generally meet government underwriting standards, but have loan balances that exceed agency maximums. Alt-A mortgage loans generally do not have sufficient documentation to meet government agency underwriting standards. Approximately 90 percent of our Alt-A mortgage-backed securities represent pools of fixed rate residential mortgage loans. None of the adjustable rate mortgages are payment option adjustable rate mortgages ("ARMs"). Approximately 30 percent of our Jumbo-A residential mortgage-backed securities represent pools of fixed rate residential mortgage loans and none of the adjustable rate mortgages are payment option ARMs.

The aggregate gross amount of unrealized losses on available for sale securities totaled $5.9 million at March 31, 2016, compared to $42 million at December 31, 2015. On a quarterly basis, we perform separate evaluations on debt and equity securities to determine if the unrealized losses are temporary as more fully described in Note 2 of the Consolidated Financial Statements. No other-than-temporary impairment charges were recognized in earnings during the first quarter of 2016.

Certain residential mortgage-backed securities issued by U.S. government agencies and included in fair value option securities on the Consolidated Balance Sheets have been segregated and designated as economic hedges of changes in the fair value of our mortgage servicing rights. We have elected to carry these securities at fair value with changes in fair value recognized in current period income. These securities are held with the intent that gains or losses will offset changes in the fair value of mortgage servicing rights and related derivative contracts.

BOK Financial is required to hold stock as members of the Federal Reserve system and the Federal Home Loan Banks ("FHLB"). These restricted equity securities are carried at cost as these securities do not have a readily determined fair value because the ownership of these shares is restricted and they lack a market. Federal Reserve Bank stock totaled $36 million and holdings of FHLB stock totaled $278 million at March 31, 2016. Holdings of FHLB stock increased $41 million over December 31, 2015. We are required to hold stock in the FHLB in proportion to our borrowings with the FHLB.

Bank-Owned Life Insurance

We have approximately $306 million of bank-owned life insurance at March 31, 2016. This investment is expected to provide a long-term source of earnings to support existing employee benefit programs. Approximately $275 million is held in separate accounts. Our separate account holdings are invested in diversified portfolios of investment-grade fixed income securities and cash equivalents, including U.S. Treasury and Agency securities, residential mortgage-backed securities, corporate debt, asset-backed and commercial mortgage-backed securities. The portfolios are managed by unaffiliated professional managers within parameters established in the portfolio's investment guidelines. The cash surrender value of certain life insurance policies is further supported by a stable value wrap, which protects against changes in the fair value of the investments. At March 31, 2016, the fair value of investments held in separate accounts was approximately $290 million. As the underlying fair value of the investments held in a separate account at March 31, 2016 exceeded the net book value of the investments, no cash surrender value was supported by the stable value wrap. The stable value wrap is provided by a domestic financial institution. The remaining cash surrender value of $31 million primarily represents the cash surrender value of policies held in general accounts and other amounts due from various insurance companies.

Loans

The aggregate loan portfolio before allowance for loan losses totaled $16 billion at March 31, 2016, an increase of $81 million over December 31, 2015. Outstanding commercial loans grew by $36 million over December 31, 2015, largely due to growth in healthcare, manufacturing and wholesale/retail sectors loans, partially offset by a decrease in services and energy loan balances. Commercial real estate loan balances were up $111 million primarily related to growth in loans secured by office buildings and other other commercial real estate loans. Residential mortgage loans decreased $7.6 million compared to December 31, 2015 and personal loans decreased $58 million compared to December 31, 2015.

Table 10 -- Loans
(In thousands)

	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Commercial:					
Energy	$3,029,420	$3,097,328	$2,838,167	$2,902,143	$2,902,994
Services	2,728,891	2,784,276	2,706,624	2,681,126	2,592,876
Healthcare	1,995,425	1,883,380	1,741,680	1,646,025	1,511,177
Wholesale/retail	1,451,846	1,422,064	1,461,936	1,533,730	1,405,800
Manufacturing	600,645	556,729	555,677	579,549	560,925
Other commercial and industrial	482,198	508,754	493,338	433,148	417,391
Total commercial	10,288,425	10,252,531	9,797,422	9,775,721	9,391,163
Commercial real estate:					
Retail	810,522	796,499	769,449	688,447	658,860
Multifamily	733,689	751,085	758,658	711,333	749,986
Office	695,552	637,707	626,151	563,085	513,862
Industrial	564,467	563,169	563,871	488,054	478,584
Residential construction and land development	171,949	160,426	153,510	148,574	139,152
Other commercial real estate	394,328	350,147	363,428	434,004	395,020
Total commercial real estate	3,370,507	3,259,033	3,235,067	3,033,497	2,935,464
Residential mortgage:					

Permanent mortgage	948,405	945,336	937,664	946,324	964,264
Permanent mortgages guaranteed by U.S. government agencies	197,350	196,937	192,712	190,839	200,179
Home equity	723,554	734,620	738,619	747,565	762,556
Total residential mortgage	1,869,309	1,876,893	1,868,995	1,884,728	1,926,999
Personal	494,325	552,697	465,957	430,190	430,510
Total	$16,022,566	$15,941,154	$15,367,441	$15,124,136	$14,684,136

Commercial

Commercial loans represent loans for working capital, facilities acquisition or expansion, purchases of equipment and other needs of commercial customers primarily located within our geographical footprint. Commercial loans are underwritten individually and represent on-going relationships based on a thorough knowledge of the customer, the customer's industry and market. While commercial loans are generally secured by the customer's assets including real property, inventory, accounts receivable, operating equipment, interests in mineral rights and other property and may also include personal guarantees of the owners and related parties, the primary source of repayment of the loans is the on-going cash flow from operations of the customer's business. Inherent lending risks are centrally monitored on a continuous basis from underwriting throughout the life of the loan for compliance with commercial lending policies.

Commercial loans totaled $10.3 billion or 64 percent of the loan portfolio at March 31, 2016, an increase of $36 million over December 31, 2015. Healthcare sector loans grew by $112 million, manufacturing sector loans increased $44 million and wholesale/retail sector loans increased $30 million. Service sector loans decreased by $55 million and energy loan balances decreased $68 million compared to December 31, 2015.

Table 11 presents the commercial sector of our loan portfolio distributed primarily by collateral location. Loans for which collateral location is less relevant, such as unsecured loans and reserve-based energy loans, are distributed by the borrower's primary operating location. The majority of the collateral securing our commercial loan portfolio is located within our geographical footprint with 34 percent concentrated in the Texas market and 23 percent concentrated in the Oklahoma market. The Other category is primarily composed of two states, California and Louisiana, which represent $252 million or 2 percent of the commercial loan portfolio and $162 million or 2 percent of the commercial loan portfolio, respectively, at March 31, 2016. All other states individually represent one percent or less of total commercial loans.

Table 11 -- Commercial Loans by Collateral Location
(In thousands)

	Oklahoma	Texas	New Mexico	Arkansas	Colorado	Arizona	Kansas/Missouri	Other	Total
Energy	$826,856	$1,380,625	$19,429	$5,811	$319,099	$10,756	$88,485	$378,359	$3,029,420
Services	688,722	855,175	222,131	2,945	258,866	187,378	167,911	345,763	2,728,891
Healthcare	283,249	343,187	125,158	88,418	153,712	116,670	224,686	660,345	1,995,425
Wholesale/retail	377,520	568,058	37,564	39,989	59,758	53,607	29,889	285,461	1,451,846
Manufacturing	139,592	209,249	3,591	8,766	44,050	47,025	71,186	77,186	600,645
Other commercial and industrial	80,413	137,510	4,545	71,916	34,905	29,600	74,235	49,074	482,198
Total commercial loans	$2,396,352	$3,493,804	$412,418	$217,845	$870,390	$445,036	$656,392	$1,796,188	$10,288,425

Supporting the energy industry with loans to producers and other energy-related entities has been a hallmark of the Company since its founding and represents a large portion of our commercial loan portfolio. In addition, energy production and related industries have a significant impact on the economy in our primary markets. Loans collateralized by oil and gas properties are subject to a semi-annual engineering review by our internal staff of petroleum engineers. This review is utilized as the basis for developing the expected cash flows supporting the loan amount. The projected cash flows are discounted according to risk characteristics of the underlying oil and gas properties. Loans are evaluated to demonstrate with reasonable certainty that crude oil, natural gas and natural gas

liquids can be recovered from known oil and gas reservoirs under existing economic and operating conditions at current pricing levels and with existing conventional equipment and operating methods and costs. As part of our evaluation of credit quality, we analyze rigorous stress tests over a range of commodity prices and take proactive steps to mitigate risk when appropriate.

Outstanding energy loans totaled $3 billion or 19 percent of total loans at March 31, 2016. Unfunded energy loan commitments decreased by $269 million to $2.1 billion at March 31, 2016. Approximately $2.5 billion of energy loans were to oil and gas producers, down $68 million compared to December 31, 2015. The majority of this portfolio is first lien, senior secured, reserve-based lending, which we believe is the lowest risk form of energy lending. The Company has largely avoided higher-risk energy lending areas including second-lien financing, mezzanine debt and subordinated debt. In addition, the Company has no direct exposure to energy company equity or to borrowers with deepwater offshore exposure. Approximately 60 percent of the committed production loans are secured by properties primarily producing oil and 40 percent of the committed production loans are secured by properties primarily producing natural gas. Loans to borrowers that provide services to the energy industry were largely unchanged from the prior quarter at $278 million at March 31, 2016. Loans to midstream oil and gas companies totaled $202 million at March 31, 2016, an increase of $9.1 million over December 31, 2015. Loans to other energy borrowers, including those engaged in wholesale or retail energy sales, totaled $78 million, a $7.7 million decrease compared to the prior quarter.

The services sector of the loan portfolio totaled $2.7 billion or 17 percent of total loans and consists of a large number of loans to a variety of businesses, including governmental, finance and insurance, educational services, not-for-profit and loans to entities providing services for real estate and construction. Service sector loans decreased by $55 million compared to December 31, 2015. Service sector loans are generally secured by the assets of the borrower with repayment coming from the cash flows of ongoing operations of the customer’s business.

The healthcare sector of the loan portfolio consists primarily of loans for the development and operation of senior housing and care facilities, including independent living, assisted living and skilled nursing. Healthcare also includes loans to hospitals and other medical service providers.

We participate in shared national credits when appropriate to obtain or maintain business relationships with local customers. Shared national credits are defined by banking regulators as credits of more than $20 million and with three or more non-affiliated banks as participants. At March 31, 2016, the outstanding principal balance of these loans totaled $3.5 billion. Substantially all of these loans are to borrowers with local market relationships. We serve as the agent lender in approximately 18 percent of our shared national credits, based on dollars committed. We hold shared credits to the same standard of analysis and perform the same level of review as internally originated credits. Our lending policies generally avoid loans in which we do not have the opportunity to maintain or achieve other business relationships with the customer. In addition to management’s quarterly assessment of credit risk, banking regulators annually review a sample of shared national credits for proper risk grading.

Commercial Real Estate

Commercial real estate represents loans for the construction of buildings or other improvements to real estate and property held by borrowers for investment purposes generally within our geographical footprint, with larger concentrations in Texas and Oklahoma which represent 30 percent and 13 percent of the total commercial real estate portfolio at March 31, 2016, respectively. We require collateral values in excess of the loan amounts, demonstrated cash flows in excess of expected debt service requirements, equity investment in the project and a portion of the project already sold, leased or permanent financing already secured. The expected cash flows from all significant new or renewed income producing property commitments are stress tested to reflect the risks in varying interest rates, vacancy rates and rental rates. As with commercial loans, inherent lending risks are centrally monitored on a continuous basis from underwriting throughout the life of the loan for compliance with applicable lending policies.

Commercial real estate loans totaled $3.4 billion or 21 percent of the loan portfolio at March 31, 2016. The outstanding balance of commercial real estate loans increased $111 million during the first quarter of 2016. Loans secured by office buildings increased $58 million and other commercial real estate loan balances increased $44

million. Retail sector loans increased $14 million and residential construction and land development loans grew by $12 million, partially offset by a $17 million decrease in loans secured by multifamily residential properties. The commercial real estate loan balance as a percentage of our total loan portfolio has ranged from 18 percent to 21 percent over the past five years. The commercial real estate sector of our loan portfolio distributed by collateral location follows in Table 12.

Table 12 -- Commercial Real Estate Loans by Collateral Location
(In thousands)

	Oklahoma	Texas	New Mexico	Arkansas	Colorado	Arizona	Kansas/Missouri	Other	Total
Retail	84,702	290,377	108,674	3,764	65,492	40,173	9,405	207,935	810,522
Multifamily	90,627	257,546	33,795	18,195	57,627	77,322	66,075	132,502	733,689
Office	118,744	183,847	55,025	1,851	55,834	54,557	69,050	156,644	695,552
Industrial	64,328	161,043	26,068	206	5,320	15,031	35,827	256,644	564,467
Residential construction and land development	20,441	35,951	23,372	5,109	36,637	2,901	5,402	42,136	171,949
Other real estate	69,741	73,602	13,810	9,857	15,077	30,702	2,335	179,204	394,328
Total commercial real estate loans	$448,583	$1,002,366	$260,744	$38,982	$235,987	$220,686	$ 188,094	$975,065	$3,370,507

Residential Mortgage and Personal

Residential mortgage loans provide funds for our customers to purchase or refinance their primary residence or to borrow against the equity in their home. Residential mortgage loans are secured by a first or second-mortgage on the customer’s primary residence. Personal loans consist primarily of loans to wealth management clients secured by the cash surrender value of insurance policies and marketable securities. It also includes direct loans secured by and for the purchase of automobiles, recreational and marine equipment as well as unsecured loans. Residential mortgage and personal loans are made in accordance with underwriting policies we believe to be conservative and are fully documented. Loans may be individually underwritten or credit scored based on size and other criteria. Credit scoring is assessed based on significant credit characteristics including credit history, residential and employment stability.

Residential mortgage loans totaled $1.9 billion, a $7.6 million decrease compared to December 31, 2015. In general, we sell the majority of our conforming fixed rate loan originations in the secondary market and retain the majority of our non-conforming and adjustable-rate mortgage loans. We have no concentration in sub-prime residential mortgage loans. Our mortgage loan portfolio does not include payment option adjustable rate mortgage loans or adjustable rate mortgage loans with initial rates that are below market. Collateral for 98 percent of our residential mortgage loan portfolio is located within our geographical footprint.

The majority of our permanent mortgage loan portfolio is composed of various non-conforming mortgage programs to support customer relationships including jumbo mortgage loans, non-builder construction loans and special loan programs for high net worth individuals or certain professionals. Jumbo loans may be fixed or variable rate and are fully amortizing. The size of jumbo loans exceed maximums set under government sponsored entity standards, but otherwise generally conform to those standards. These loans generally require a minimum FICO score of 720 and a maximum debt-to-income ratio (“DTI”) of 38 percent. Loan-to-value ratios (“LTV”) are tiered from 60 percent to 100 percent, depending on the market. Special mortgage programs include fixed and variable rate fully amortizing loans tailored to the needs of certain healthcare professionals. Variable rate loans are fully indexed at origination and may have fixed rates for three to ten years, then adjust annually thereafter.

At March 31, 2016, $197 million of permanent residential mortgage loans are guaranteed by U.S. government agencies. We have minimal credit exposure on loans guaranteed by the agencies. This amount includes residential mortgage loans previously sold into GNMA mortgage pools that the Company may repurchase when certain defined delinquency criteria are met. Because of this repurchase right, the Company is deemed to have regained effective control over these loans and must include them on the Consolidated Balance Sheet. Permanent residential mortgage

loans guaranteed by U.S. government agencies were largely unchanged compared to December 31, 2015.

Home equity loans totaled $724 million at March 31, 2016, a decrease of $11 million compared to December 31, 2015. Our home equity loan portfolio is primarily composed of first-lien, fully amortizing home equity loans. Home equity loans generally require a minimum FICO score of 700 and a maximum DTI of 40 percent. The maximum loan amount available for our home equity loan products is generally $400 thousand. Revolving loans have a 5 year revolving period followed by a 15 year term of amortizing repayment. Interest-only home equity loans may not be extended for any additional revolving time. All other home equity loans may be extended at management's discretion for an additional 5 year revolving term subject to an update of certain credit information. A summary of our home equity loan portfolio at March 31, 2016 by lien position and amortizing status follows in Table 13.

Table 13 -- Home Equity Loans
(In thousands)

	Revolving	Amortizing	Total
First lien	$ 41,825	$ 446,400	$ 488,225
Junior lien	86,374	148,955	235,329
Total home equity	$ 128,199	$ 595,355	$ 723,554

The distribution of residential mortgage and personal loans at March 31, 2016 is as follows in Table 14. Residential mortgage loans are distributed by collateral location. Personal loans are generally distributed by borrower location.

Table 14 -- Residential Mortgage and Personal Loans by Collateral Location
(In thousands)

	Oklahoma	Texas	New Mexico	Arkansas	Colorado	Arizona	Kansas/Missouri	Other	Total
Residential mortgage:									
Permanent mortgage	$ 196,443	$ 390,512	$ 39,881	$ 13,707	$ 141,932	$ 94,172	$ 48,132	$ 23,626	$ 948,405
Permanent mortgages guaranteed by U.S. government agencies	63,244	23,478	63,319	6,357	8,106	1,533	11,730	19,583	197,350
Home equity	423,210	132,233	112,997	5,425	32,162	9,259	7,821	447	723,554
Total residential mortgage	$ 682,897	$ 546,223	$ 216,197	$ 25,489	$ 182,200	$ 104,964	$ 67,683	$ 43,656	$ 1,869,309
Personal	$ 201,978	$ 208,878	$ 10,813	$ 918	$ 25,712	$ 18,031	$ 25,044	$ 2,951	$ 494,325

The Company secondarily evaluates loan portfolio performance based on the primary geographical market managing the loan. Loans attributed to a geographical market may not represent the location of the borrower or the collateral. All permanent mortgage loans serviced by our mortgage banking unit and held for investment by the Bank are centrally managed by the Bank of Oklahoma.

Table 15 -- Loans Managed by Primary Geographical Market
(In thousands)

	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Bank of Oklahoma:					
Commercial	$3,656,034	$3,782,687	$3,514,391	$3,529,406	$3,276,553
Commercial real estate	747,689	739,829	677,372	614,995	612,639
Residential mortgage	1,411,409	1,409,114	1,405,235	1,413,690	1,442,340
Personal	204,158	255,387	185,463	190,909	205,496
Total Bank of Oklahoma	6,019,290	6,187,017	5,782,461	5,749,000	5,537,028
Bank of Texas:					
Commercial	3,936,809	3,908,425	3,752,193	3,738,742	3,709,467
Commercial real estate	1,211,978	1,204,202	1,257,741	1,158,056	1,130,973
Residential mortgage	217,539	219,126	222,395	228,683	237,985
Personal	210,456	203,496	194,051	156,260	149,827
Total Bank of Texas	5,576,782	5,535,249	5,426,380	5,281,741	5,228,252
Bank of Albuquerque:					
Commercial	402,082	375,839	368,027	392,362	388,005
Commercial real estate	323,059	313,422	312,953	291,953	296,696
Residential mortgage	117,655	120,507	121,232	123,376	127,326
Personal	10,823	11,557	10,477	11,939	12,095
Total Bank of Albuquerque	853,619	821,325	812,689	819,630	824,122
Bank of Arkansas:					
Commercial	79,808	92,359	76,044	99,086	91,485
Commercial real estate	66,674	69,320	82,225	85,997	87,034
Residential mortgage	7,212	8,169	8,063	6,999	6,807
Personal	918	819	4,921	5,189	5,114
Total Bank of Arkansas	154,612	170,667	171,253	197,271	190,440
Colorado State Bank & Trust:					
Commercial	1,030,348	987,076	1,029,694	1,019,454	1,008,316
Commercial real estate	219,078	223,946	229,835	229,721	209,272
Residential mortgage	52,961	53,782	50,138	54,135	55,925
Personal	24,497	23,384	30,683	30,373	27,792
Total Colorado State Bank & Trust	1,326,884	1,288,188	1,340,350	1,333,683	1,301,305
Bank of Arizona:					
Commercial	656,527	606,733	608,235	572,477	519,767
Commercial real estate	605,383	507,523	482,918	472,061	432,269
Residential mortgage	40,338	44,047	41,722	37,493	36,161
Personal	18,372	31,060	17,609	12,875	12,394

Total Bank of Arizona	1,320,620	1,189,363	1,150,484	1,094,906	1,000,591
Bank of Kansas City:					
Commercial	526,817	499,412	448,838	424,194	397,570
Commercial real estate	196,646	200,791	192,023	180,714	166,581
Residential mortgage	22,195	22,148	20,210	20,352	20,455
Personal	25,101	26,994	22,753	22,645	17,792
Total Bank of Kansas City	770,759	749,345	683,824	647,905	602,398
Total BOK Financial loans	$16,022,566	$15,941,154	$15,367,441	$15,124,136	$14,684,136

Loan Commitments

We enter into certain off-balance sheet arrangements in the normal course of business. These arrangements included unfunded loan commitments which totaled $8.6 billion and standby letters of credit which totaled $510 million at March 31, 2016. Loan commitments may be unconditional obligations to provide financing or conditional obligations that depend on the borrower's financial condition, collateral value or other factors. Standby letters of credit are unconditional commitments to guarantee the performance of our customer to a third party. Since some of these commitments are expected to expire before being drawn upon, the total commitment amounts do not necessarily represent future cash requirements. Approximately $1.6 million of the outstanding standby letters of credit were issued on behalf of customers whose loans are nonperforming at March 31, 2016.

Table 16 – Off-Balance Sheet Credit Commitments
(In thousands)

	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Loan commitments	$8,567,017	$8,455,037	$8,325,540	$8,064,841	$8,116,482
Standby letters of credit	509,902	507,988	479,638	444,947	394,282
Mortgage loans sold with recourse	152,843	155,489	161,897	168,581	174,386

As more fully described in Note 6 to the Consolidated Financial Statements, we have off-balance sheet commitments related to certain residential mortgage loans originated under community development loan programs that were sold to a U.S. government agency with full recourse. These mortgage loans were underwritten to standards approved by the agencies, including full documentation and originated under programs available only for owner-occupied properties. The Company no longer sells residential mortgage loans with recourse. We are obligated to repurchase these loans for the life of these loans in the event of foreclosure for the unpaid principal and interest at the time of foreclosure. Substantially all of these loans are to borrowers in our primary markets including $99 million to borrowers in Oklahoma, $16 million to borrowers in Arkansas and $12 million to borrowers in New Mexico.

We also have an off-balance sheet obligation to repurchase residential mortgage loans sold to government sponsored entities through our mortgage banking activities due to standard representations and warranties made under contractual agreements as described further in Note 6 to the Consolidated Financial Statements. For the period from 2010 through the first quarter of 2016 combined, approximately 21 percent of repurchase requests have currently resulted in actual repurchases or indemnification by the Company. The accrual for credit losses related to potential loan repurchases under representations and warranties totaled $3.0 million at March 31, 2016 and $3.4 million at December 31, 2015.

Customer Derivative Programs

We offer programs that permit our customers to hedge various risks, including fluctuations in energy, cattle and other agricultural product prices, interest rates and foreign exchange rates. Each of these programs work essentially the same way. Derivative contracts are executed between the customers and the Company. Offsetting contracts are executed between the Company and selected counterparties to minimize market risk due to changes in commodity prices, interest rates or foreign exchange rates. The counterparty contracts are identical to the customer contracts, except for a fixed pricing spread or a fee paid to us as compensation for administrative costs, credit risk and profit.

The customer derivative programs create credit risk for potential amounts due to the Company from our customers and from the counterparties. Customer credit risk is monitored through existing credit policies and procedures. The effects of changes in commodity prices, interest rates or foreign exchange rates are evaluated across a range of possible options to determine the maximum exposure we are willing to have individually to any customer. Customers may also be required to provide cash margin or other collateral in conjunction with our credit agreements to further

limit our credit risk.

Counterparty credit risk is evaluated through existing policies and procedures. This evaluation considers the total relationship between BOK Financial and each of the counterparties. Individual limits are established by management, approved by Credit Administration and reviewed by the Asset/Liability Committee. Margin collateral is required if the exposure between the Company and any counterparty exceeds established limits. Based on declines in the counterparties' credit ratings, these limits may be reduced and additional margin collateral may be required.

A deterioration of the credit standing of one or more of the customers or counterparties to these contracts may result in BOK Financial recognizing a loss as the fair value of the affected contracts may no longer move in tandem with the offsetting

contracts. This occurs if the credit standing of the customer or counterparty deteriorated such that either the fair value of underlying collateral no longer supported the contract or the customer or the counterparty's ability to provide margin collateral was impaired. Credit losses on customer derivatives reduce brokerage and trading revenue in the Consolidated Statement of Earnings.

Derivative contracts are carried at fair value. At March 31, 2016, the net fair values of derivative contracts, before consideration of cash margin, reported as assets under these programs totaled $800 million compared to $611 million at December 31, 2015. At March 31, 2016, the fair value of our derivative contracts included $639 million for foreign exchange contracts, $67 million related to to-be-announced residential mortgage-backed securities, $48 million for interest rate swaps and $41 million for energy contracts. The aggregate net fair value of derivative contracts, before consideration of cash margin, held under these programs reported as liabilities totaled $796 million at March 31, 2016 and $606 million at December 31, 2015.

At March 31, 2016, total derivative assets were reduced by $17 million of cash collateral received from counterparties and total derivative liabilities were reduced by $91 million of cash collateral paid to counterparties related to instruments executed with the same counterparty under a master netting agreement.

A table showing the notional and fair value of derivative assets and liabilities on both a gross and net basis is presented in Note 3 to the Consolidated Financial Statements.

The fair value of derivative contracts reported as assets under these programs, net of cash margin held by the Company, by category of debtor at March 31, 2016 follows in Table 17.

Table 17 -- Fair Value of Derivative Contracts

(In thousands)	
Customers	$425,342
Banks and other financial institutions	330,824
Exchanges and clearing organizations	27,039
Fair value of customer risk management program asset derivative contracts, net	$783,205

At March 31, 2016, our largest derivative exposure was to an exchange for energy derivative contracts which totaled $20 million. At March 31, 2016, our aggregate gross exposure to internationally active domestic financial institutions was approximately $57 million comprised of $40 million of cash and securities positions and $17 million of gross derivative positions. We have no direct exposure to European sovereign debt and our aggregate gross exposure to European financial institutions totaled $14 million at March 31, 2016.

Our customer derivative program also introduces liquidity and capital risk. We are required to provide cash margin to certain counterparties when the net negative fair value of the contracts exceeds established limits. Also, changes in commodity prices affect the amount of regulatory capital we are required to hold as support for the fair value of our derivative assets. These risks are modeled as part of the management of these programs. Based on current prices, a decrease in market prices equivalent to $21.67 per barrel of oil would decrease the fair value of derivative assets by $477 thousand. An increase in prices equivalent to $60.40 per barrel of oil would increase the fair value of derivative assets by $52 million as current prices move towards the fixed prices embedded in our existing contracts. Liquidity requirements of this program are also affected by our credit rating. A decrease in our credit rating to below investment grade would increase our obligation to post cash margin on existing contracts by approximately $18 million. The fair value of our to-be-announced residential mortgage-backed securities and interest rate swap derivative contracts is affected by changes in interest rates. Based on our assessment as of March 31, 2016, changes in interest rates would not materially impact regulatory capital or liquidity needed to support this portion of our customer derivative program.

Summary of Loan Loss Experience

We maintain an allowance for loan losses and an accrual for off-balance sheet credit risk. At March 31, 2016, the combined allowance for loan losses and off-balance sheet credit losses totaled $240 million or 1.50 percent of outstanding loans and 108 percent of nonaccruing loans, excluding loans guaranteed by U.S. government agencies. The allowance for loan losses was $233 million and the accrual for off-balance sheet credit losses was $6.6 million. At December 31, 2015, the combined allowance for credit losses was $227 million or 1.43 percent of outstanding loans and 181 percent of nonaccruing loans, excluding loans guaranteed by U.S. government agencies. The allowance for loan losses was $226 million and the accrual for off-balance sheet credit losses was $1.7 million. The portion of the combined allowance for credit losses attributed to the energy portfolio totaled 3.19 percent of outstanding energy loans at March 31, 2016, an increase from 2.89 percent of outstanding energy loans at December 31, 2015.

The provision for credit losses is the amount necessary to maintain the allowance for loan losses and an accrual for off-balance sheet credit risk at an amount determined by management to be appropriate based on its evaluation. The provision includes the combined charge to expense for both the allowance for loan losses and the accrual for off-balance sheet credit risk. All losses incurred from lending activities will ultimately be reflected in charge-offs against the allowance for loan losses following funds advanced against outstanding commitments. After evaluating all credit factors, we recorded a $35.0 million provision for credit losses during the first quarter of 2016, primarily due to continued credit migration in the energy portfolio. Low energy prices persisted during the first quarter and no meaningful recovery is expected in the near term. A $22.5 million provision for credit losses was recorded in the fourth quarter of 2015 and no provision for credit losses was necessary in the first quarter of 2015.

Table 18 -- Summary of Loan Loss Experience
(In thousands)

	Three Months Ended				
	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Allowance for loan losses:					
Beginning balance	$225,524	$204,116	$201,087	$197,686	$189,056
Loans charged off:					
Commercial	(22,126)	(2,182)	(3,497)	(881)	(174)
Commercial real estate	—	(900)	—	(16)	(28)
Residential mortgage	(474)	(421)	(446)	(714)	(624)
Personal	(1,391)	(1,348)	(1,331)	(1,266)	(1,343)
Total	(23,991)	(4,851)	(5,274)	(2,877)	(2,169)
Recoveries of loans previously charged off:					
Commercial	488	928	759	685	357
Commercial real estate	85	120	1,865	275	8,819
Residential mortgage	163	137	205	481	437
Personal	783	685	692	765	910
Total	1,519	1,870	3,521	2,206	10,523
Net loans recovered (charged off)	(22,472)	(2,981)	(1,753)	(671)	8,354
Provision for loan losses	30,104	24,389	4,782	4,072	276
Ending balance	$233,156	$225,524	$204,116	$201,087	$197,686
Accrual for off-balance sheet credit losses:					
Beginning balance	$1,711	$3,600	$882	$954	$1,230
Provision for off-balance sheet credit losses	4,896	(1,889)	2,718	(72)	(276)
Ending balance	$6,607	$1,711	$3,600	$882	$954
Total combined provision for credit losses	$35,000	$22,500	$7,500	$4,000	$—
Allowance for loan losses to loans outstanding at period-end	1.46 %	1.41 %	1.33 %	1.33 %	1.35 %
Net charge-offs (annualized) to average loans	0.56 %	0.08 %	0.05 %	0.02 %	(0.23)%
Total provision for credit losses (annualized) to average loans	0.88 %	0.58 %	0.20 %	0.11 %	— %
Recoveries to gross charge-offs	6.33 %	38.55 %	66.76 %	76.68 %	485.15 %
Accrual for off-balance sheet credit losses to off-balance sheet credit commitments	0.07 %	0.02 %	0.04 %	0.01 %	0.01 %
Combined allowance for credit losses to loans outstanding at period-end	1.50 %	1.43 %	1.35 %	1.34 %	1.35 %

Allowance for Loan Losses

The appropriateness of the allowance for loan losses is assessed by management based on an ongoing quarterly evaluation of the probable estimated losses inherent in the portfolio. The allowance consists of specific allowances attributed to certain impaired loans, general allowances based on estimated loss rates by loan class and non-specific allowances based on general economic conditions, concentration in loans with large balances and other relevant factors.

Loans are considered to be impaired when it is probable that we will not collect all amounts due according to the contractual terms of the loan agreement. This includes all nonaccruing loans, all loans modified in troubled debt restructurings and all government guaranteed loans repurchased from GNMA pools. A specific allowance is required when the outstanding principal balance of the loan is not supported by either the discounted cash flows expected to be

received from the borrower or the fair value of collateral for collateral dependent loans. At March 31, 2016, impaired loans totaled $420 million, including $35 million with specific allowances of $2.7 million and $385 million with no specific allowances. At December 31, 2015, impaired loans totaled $322 million, including $44 million of impaired loans with specific allowances of $16 million and $278 million with no specific allowances.

Following the most recent 2016 shared national credit review and release of the updated Office of the Comptroller of the Currency ("OCC") Oil and Gas Lending Handbook, we have made adjustments to how loans are risk rated. Previously, the ability to repay senior secured revolving loans was heavily weighted in determining risk ratings. New guidelines heavily weight ability to repay total borrower debt, regardless of collateral position. This change in grading methodology has increased loans especially mentioned, potential problem loans and nonaccrual loans at March 31, 2016. The results of the shared national credit review have been fully included in our first quarter risk ratings. As we continue to evaluate credits, or, as a result of the current targeted energy review being conducted by our banking regulators, additional rating changes could continue through the first half of 2016. Because substantially all of our energy portfolio is supported by senior lien positions that, in general, have substantially lower loss exposure, the historical relationship between loan classification and loss exposure may be more difficult to correlate.

General allowances for unimpaired loans are based on an estimated loss rate by loan class. Estimated loss rates for risk-graded loans are either increased or decreased based on changes in risk grading for each loan class. Estimated loss rates for both risk-graded and non-risk graded loans may be further adjusted for inherent risk identified for the given loan class which have not yet been captured in the loss rate.

The aggregate amount of general allowances for all unimpaired loans totaled $205 million at March 31, 2016, an increase of $26 million over December 31, 2015, primarily due to a $23 million increase in the general allowance attributed to the commercial loan segment related to exposure to low energy prices.

Nonspecific allowances are maintained for risks beyond factors specific to a particular portfolio segment or loan class. These factors include trends in the economy in our primary lending areas, concentrations in loans with large balances and other relevant factors. Nonspecific allowances totaled $25 million at March 31, 2016, compared to $30 million at December 31, 2015. The nonspecific allowance includes consideration of the indirect impact of falling energy prices on the broader economies within our geographical footprint that are highly dependent on the energy industry. The decrease in nonspecific allowances was due to lower risk of losses from an increase in interest rates and international exposure.

An allocation of the allowance for loan losses by portfolio segment is included in Note 4 to the Consolidated Financial Statements.

Our loan monitoring process also identified loans that possess more than the normal amount of risk due to deterioration in the financial condition of the borrower or the value of the collateral. Because the borrowers are still performing in accordance with the original terms of the loan agreements, and no loss of principal or interest is anticipated, these loans were not included in nonperforming assets. Known information does, however, cause management concern as to the borrowers' ability to comply with current repayment terms. These potential problem loans totaled $460 million at March 31, 2016, primarily composed of $403 million of energy loans, $20 million of wholesale/retail sector loans, $12 million of manufacturing sector loans, $7.8 million of healthcare sector loans, $6.9 million of service sector loans and $6.5 million of loans secured by multifamily residential properties. Potential problem loans totaled $155 million at December 31, 2015 including $130 million of potential problem energy loans.

Performing loan totals include loans that management considers to be "other loans especially mentioned" based on regulatory guidelines. Other loans especially mentioned are in compliance with the original terms of the agreement but may have a weakness that deserves management's close attention. Energy loans classified as other loans especially mentioned totaled $269 million or 9 percent of outstanding energy loans at March 31, 2016 and $326 million or 11 percent of outstanding energy loans at December 31, 2015.

We updated our energy loan portfolio stress test at quarter end to estimate how the energy portfolio may respond in a prolonged low-price environment. Stress test assumptions include a starting price of $1.65 per million BTUs for

natural gas and $34.00 per barrel of oil, gradually escalating over five years to a maximum of $2.50 and $40.00, respectively. In this scenario, the energy portfolio exhibits greater stress than we have experienced to date and losses would be expected to exceed our 15 year historical loss rate on energy loans of 8 basis points. The results of the stress test are factored into our expectation that the loan loss provision could range from $60 to $80 million for 2016, which includes a significant increase in the loan loss provision for energy-related loans. Based on currently available information, we expect the majority of the provision for 2016 will be recognized in the first half of the year. The provision could be modestly higher than this range if the borrowing base redetermination, the oil and gas market, and other factors prove more negative over the next several months.

Net Loans Charged Off

Loans are charged off against the allowance for loan losses when the loan balance or a portion of the loan balance is no longer covered by the paying capacity of the borrower based on an evaluation of available cash resources and collateral value. Internally risk graded loans are evaluated quarterly and charge-offs are taken in the quarter in which the loss is identified. Non-risk graded loans are generally charged off when payments are between 60 days and 180 days past due, depending on loan class. In addition, non-risk graded loans are generally charged-down to collateral value within 60 days of being notified of a borrower's bankruptcy filing, regardless of payment status.

BOK Financial had net loans charged off of $22.5 million in the first quarter of 2016, compared to net loans charged off of $3.0 million in the fourth quarter of 2015 and net recoveries of $8.4 million in the first quarter of 2015. The ratio of net loans charged off (recovered) to average loans on an annualized basis was 0.56 percent for the first quarter of 2016, compared with 0.08 percent for the fourth quarter of 2015 and (0.23) percent for the first quarter of 2015.

Net commercial loans charged off totaled $21.6 million in the first quarter of 2016, compared to net loans charged off of $1.3 million in the fourth quarter of 2015. First quarter of 2016 charge-offs resulted primarily from energy loans, including $15 million from a single credit identified in the previous quarter. Net commercial real estate loan recoveries were $85 thousand in the first quarter, compared to net charge-offs of $780 thousand in the fourth quarter. Residential mortgage net charge-offs were $311 thousand and personal loan net charge-offs were $608 thousand for the first quarter. Personal loan net charge-offs include deposit account overdraft losses.

Nonperforming Assets

Table 19 -- Nonperforming Assets
(In thousands)

	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Nonaccruing loans:					
Commercial	$174,652	$76,424	$33,798	$24,233	$13,880
Commercial real estate	9,270	9,001	10,956	20,139	19,902
Residential mortgage	57,577	61,240	44,099	45,969	46,487
Personal	331	463	494	550	464
Total nonaccruing loans	241,830	147,128	89,347	90,891	80,733
Accruing renegotiated loans guaranteed by U.S. government agencies	77,597	74,049	81,598	82,368	80,287
Real estate and other repossessed assets	29,896	30,731	33,116	35,499	45,551
Total nonperforming assets	$349,323	$251,908	$204,061	$208,758	$206,571
Total nonperforming assets excluding those guaranteed by U.S. government agencies	$252,176	$155,959	$118,578	$122,673	$123,028
Nonaccruing loans by loan portfolio segment and class:					
Commercial:					
Energy	$159,553	$61,189	$17,880	$6,841	$1,875
Services	9,512	10,290	10,692	10,944	4,744
Wholesale / retail	3,685	2,919	3,058	4,166	4,401
Manufacturing	312	331	352	379	417
Healthcare	1,023	1,072	1,218	1,278	1,558
Other commercial and industrial	567	623	598	625	885
Total commercial	174,652	76,424	33,798	24,233	13,880
Commercial real estate:					
Residential construction and land development	4,789	4,409	4,748	9,367	9,598
Retail	1,302	1,319	1,648	3,826	3,857
Office	629	651	684	2,360	2,410
Multifamily	250	274	185	195	—
Industrial	76	76	76	76	76
Other commercial real estate	2,224	2,272	3,615	4,315	3,961
Total commercial real estate	9,270	9,001	10,956	20,139	19,902
Residential mortgage:					
Permanent mortgage	27,497	28,984	30,660	32,187	33,365
Permanent mortgage guaranteed by U.S. government agencies	19,550	21,900	3,885	3,717	3,256
Home equity	10,530	10,356	9,554	10,065	9,866
Total residential mortgage	57,577	61,240	44,099	45,969	46,487
Personal	331	463	494	550	464
Total nonaccruing loans	$241,830	$147,128	$89,347	$90,891	$80,733

	March 31, 2016		Dec. 31, 2015		Sept. 30, 2015		June 30, 2015		March 31, 2015	
Nonaccruing loans as % of outstanding balance for class:										
Commercial:										
Energy	5.27	%	1.98	%	0.63	%	0.24	%	0.06	%
Services	0.35	%	0.37	%	0.40	%	0.41	%	0.18	%
Wholesale / retail	0.25	%	0.21	%	0.21	%	0.27	%	0.31	%
Manufacturing	0.05	%	0.06	%	0.06	%	0.07	%	0.07	%
Healthcare	0.05	%	0.06	%	0.07	%	0.08	%	0.10	%
Other commercial and industrial	0.12	%	0.12	%	0.12	%	0.14	%	0.21	%
Total commercial	1.70	%	0.75	%	0.34	%	0.25	%	0.15	%
Commercial real estate:										
Residential construction and land development	2.79	%	2.75	%	3.09	%	6.30	%	6.90	%
Retail	0.16	%	0.17	%	0.21	%	0.56	%	0.59	%
Office	0.09	%	0.10	%	0.11	%	0.42	%	0.47	%
Multifamily	0.03	%	0.04	%	0.02	%	0.03	%	—	%
Industrial	0.01	%	0.01	%	0.01	%	0.02	%	0.02	%
Other commercial real estate	0.56	%	0.65	%	0.99	%	0.99	%	1.00	%
Total commercial real estate	0.28	%	0.28	%	0.34	%	0.66	%	0.68	%
Residential mortgage:										
Permanent mortgage	2.90	%	3.07	%	3.27	%	3.40	%	3.46	%
Permanent mortgage guaranteed by U.S. government agencies	9.91	%	11.12	%	2.02	%	1.95	%	1.63	%
Home equity	1.46	%	1.41	%	1.29	%	1.35	%	1.29	%
Total residential mortgage	3.08	%	3.26	%	2.36	%	2.44	%	2.41	%
Personal	0.07	%	0.08	%	0.11	%	0.13	%	0.11	%
Total nonaccruing loans	1.51	%	0.92	%	0.58	%	0.60	%	0.55	%
Ratios:										
Allowance for loan losses to nonaccruing loans[1]	104.89	%	180.09	%	238.84	%	230.67	%	255.15	%
Accruing loans 90 days or more past due[1]	$ 8,019		$ 1,207		$ 101		$ 99		$ 523	

[1] Excludes residential mortgages guaranteed by agencies of the U.S. Government.

Nonperforming assets totaled $349 million or 2.18 percent of outstanding loans and repossessed assets at March 31, 2016. Nonaccruing loans totaled $242 million, accruing renegotiated residential mortgage loans totaled $78 million and real estate and other repossessed assets totaled $30 million. All accruing renegotiated residential mortgage loans and $20 million of nonaccruing loans are guaranteed by U.S. government agencies. Excluding assets guaranteed by U.S. government agencies, nonperforming assets increased $96 million during the first quarter. The Company generally retains nonperforming assets to maximize potential recovery which may cause future nonperforming assets to decrease more slowly.

Loans are generally classified as nonaccruing when it becomes probable that we will not collect the full contractual principal and interest. As more fully discussed in Note 4 to the Consolidated Financial Statements, we may modify loans in troubled debt restructurings. Modifications may include extension of payment terms and rate concessions. We generally do not forgive principal or accrued but unpaid interest. All loans modified in troubled debt restructurings, except for residential mortgage loans guaranteed by U.S. government agencies, are classified as nonaccruing. We may also renew matured nonaccruing loans. All nonaccruing loans, including those renewed or modified in troubled debt restructurings, are charged off when the loan balance is no longer covered by the paying capacity of the borrower based on a quarterly evaluation of available cash resources and collateral value. All nonaccruing loans generally remain on nonaccrual status until full collection of principal and interest in accordance with the original terms, including principal previously charged off, is probable. We generally do not voluntarily modify personal loans to troubled borrowers. Personal loans modified at the direction of bankruptcy court orders are identified as troubled debt restructurings and classified as nonaccruing.

At March 31, 2016, renegotiated loans consist solely of accruing residential mortgage loans guaranteed by U.S. government agencies that have been modified in troubled debt restructurings. See Note 4 to the Consolidated Financial Statements for additional discussion of troubled debt restructurings. Generally, we modify residential mortgage loans primarily by reducing interest rates and extending the number of payments in accordance with U.S. government agency guidelines. Generally, no unpaid principal or interest is forgiven. Interest continues to accrue based on the modified terms of the loan. Modified loans guaranteed by U.S. government agencies under residential mortgage loan programs may be sold once they become eligible according to U.S. government agency guidelines.

A rollforward of nonperforming assets for the three months ended March 31, 2016 follows in Table 20.

Table 20 -- Rollforward of Nonperforming Assets
(In thousands)

	Three Months Ended March 31, 2016			
	Nonaccruing Loans	Renegotiated Loans	Real Estate and Other Repossessed Assets	Total Nonperforming Assets
Balance, Dec. 31, 2015	$147,128	$ 74,049	$ 30,731	$ 251,908
Additions	179,162	13,097	—	192,259
Payments	(54,886)	(504)	—	(55,390)
Charge-offs	(23,991)	—	—	(23,991)
Net gains and write-downs	—	—	71	71
Foreclosure of nonperforming loans	(2,211)	—	2,211	—
Foreclosure of loans guaranteed by U.S. government agencies	(3,327)	(2,301)	—	(5,628)
Proceeds from sales	—	(6,904)	(3,117)	(10,021)
Return to accrual status	(45)	—	—	(45)
Other, net	—	160	—	160
Balance, March 31, 2016	$241,830	$ 77,597	$ 29,896	$ 349,323

We foreclose on loans guaranteed by U.S. government agencies in accordance with agency guidelines. Generally these loans are not eligible for modification programs or have failed to comply with modified loan terms. Principal is guaranteed by agencies of the U.S. government, subject to limitations and credit risk is minimal. These properties will be conveyed to the agencies once applicable criteria have been met.

Commercial

Nonaccruing commercial loans totaled $175 million or 1.70 percent of total commercial loans at March 31, 2016 and $76 million or 0.75 percent of commercial loans at December 31, 2015. There were $155 million in newly identified nonaccruing commercial loans during the quarter, offset by $34 million in payments and $22 million of charge-offs.

Nonaccruing commercial loans at March 31, 2016 were primarily composed of $160 million or 5.27 percent of total energy loans, and $9.5 million or 0.35 percent of total services sector loans.

Commercial Real Estate

Nonaccruing commercial real estate loans totaled $9.3 million or 0.28 percent of outstanding commercial real estate loans at March 31, 2016, compared to $9.0 million or 0.28 percent of outstanding commercial real estate loans at December 31, 2015. Newly identified nonaccruing commercial real estate loans of $1.3 million were offset by $1.1 million of cash payments received. There were no charge-offs or foreclosures of nonaccruing commercial real estate loans during the first quarter.

Nonaccruing commercial real estate loans were primarily composed of $4.8 million or 2.79 percent of residential construction and land development loans.

Residential Mortgage and Personal

Nonaccruing residential mortgage loans totaled $58 million or 3.08 percent of outstanding residential mortgage loans at March 31, 2016, compared to $61 million or 3.26 percent of outstanding residential mortgage loans at December 31, 2015. Newly identified nonaccruing residential mortgage loans totaled $22 million, offset by $19 million of payments, $5.3 million of foreclosures and $474 thousand of loans charged off during the quarter.

Nonaccruing residential mortgage loans primarily consist of non-guaranteed permanent residential mortgage loans which totaled $27 million or 2.90 percent of outstanding non-guaranteed permanent residential mortgage loans at March 31, 2016. Nonaccruing home equity loans totaled $11 million or 1.46 percent of total home equity loans.

Payments of accruing residential mortgage loans and personal loans may be delinquent. The composition of residential mortgage loans and personal loans past due but still accruing is included in the following Table 21. Substantially all non-guaranteed residential loans past due 90 days or more are nonaccruing. Residential mortgage loans 30 to 89 days past due decreased $2.2 million in the first quarter to $4.1 million at March 31, 2016. Personal loans past due 30 to 89 days also decreased $422 thousand compared to December 31, 2015.

Table 21 -- Residential Mortgage and Personal Loans Past Due
(In thousands)

	March 31, 2016		December 31, 2015	
	90 Days or More	30 to 89 Days	90 Days or More	30 to 89 Days
Residential mortgage:				
Permanent mortgage[1]	$—	$1,943	$ —	$ 3,290
Home equity	—	2,200	20	3,095
Total residential mortgage	$—	$4,143	20	$ 6,385
Personal	$1	$271	$ 8	$ 693

[1] Excludes past due residential mortgage loans guaranteed by agencies of the U.S. government.

Real Estate and Other Repossessed Assets

Real estate and other repossessed assets are assets acquired in partial or total forgiveness of loans. The assets are carried at the lower of cost as determined by fair value at the date of foreclosure or current fair value, less estimated selling costs.

Real estate and other repossessed assets totaled $30 million at March 31, 2016, a decrease of $835 thousand compared to December 31, 2015. The distribution of real estate and other repossessed assets attributed by geographical market is included in Table 22 following.

Table 22 -- Real Estate and Other Repossessed Assets by Collateral Location
(In thousands)

	Oklahoma	Texas	Colorado	Arkansas	New Mexico	Arizona	Kansas/ Missouri	Other	Total
1-4 family residential properties	$ 5,186	$2,190	$ —	$ 801	$1,990	$3,999	$ 972	$69	$15,207
Developed commercial real estate properties	64	882	3,456	—	756	221	3,024	1,734	10,137
Undeveloped land	265	1,521	—	—	—	432	—	—	2,218
Residential land development properties	54	—	381	—	—	1,570	2	—	2,007
Other	—	2	—	—	—	324	—	1	327
Total real estate and other repossessed assets	$ 5,569	$4,595	$ 3,837	$ 801	$2,746	$6,546	$ 3,998	$1,804	$29,896

Undeveloped land is primarily zoned for commercial development. Developed commercial real estate properties are primarily completed with no additional construction necessary for sale.

Liquidity and Capital

Subsidiary Bank

Deposits and borrowed funds are the primary sources of liquidity for the subsidiary bank. Based on the average balances for the first quarter of 2016, approximately 65 percent of our funding was provided by deposit accounts, 20 percent from borrowed funds, and 11 percent from equity. Our funding sources, which primarily include deposits and borrowings from the Federal Home Loan Banks and other banks, provide adequate liquidity to meet our operating needs.

Deposit accounts represent our largest funding source. We compete for retail and commercial deposits by offering a broad range of products and services and focusing on customer convenience. Retail deposit growth is supported through our Perfect Banking sales and customer service program, free checking, online bill paying services, mobile banking services, an extensive network of branch locations and ATMs and a 24-hour Express Bank call center. Commercial deposit growth is supported by offering treasury management and lockbox services. We also acquire brokered deposits when the cost of funds is advantageous to other funding sources.

Table 23 - Average Deposits by Line of Business
(In thousands)

	Three Months Ended				
	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Commercial Banking	$8,457,750	$8,549,240	$8,627,281	$8,928,997	$8,995,036
Consumer Banking	6,575,893	6,652,104	6,675,990	6,724,188	6,621,377
Wealth Management	4,696,013	4,583,474	4,490,082	4,522,197	4,701,302
Subtotal	19,729,656	19,784,818	19,793,353	20,175,382	20,317,715
Funds Management and other	896,965	920,632	899,795	918,577	931,324
Total	$20,626,621	$20,705,450	$20,693,148	$21,093,959	$21,249,039

Average deposits for the first quarter of 2016 totaled $20.6 billion and represented approximately 65 percent of total liabilities and capital, compared with $20.7 billion and 67 percent of total liabilities and capital for the fourth quarter of 2015. Average deposits decreased $79 million from the fourth quarter of 2015. Average demand deposits decreased $207 million and average time deposit balances decreased $116 million, partially offset by a $229 million increase in average interest-bearing transaction accounts.

Average Commercial Banking deposit balances decreased $91 million compared to the fourth quarter of 2015, primarily due to $105 million decrease in energy customer balances and a $38 million decrease in small business customer deposit balances. These decreases were partially offset by a $41 million increase in healthcare customer balances. Commercial customers continue to retain large cash reserves primarily due to low yields available on other high quality investment alternatives and to minimize deposit service charges through the earnings credit. The earnings credit is a non-cash method that enables commercial customers to offset deposit service charges based on account balances. If economic activity were to improve significantly or if short-term interest rates were to increase, deposits may decline as customers deploy funds into projects or shift demand deposits into money market instruments.

Average Consumer Banking deposit balances decreased $76 million. Time deposits decreased $81 million and demand deposit balances decreased $17 million. Interest-bearing transaction deposits were largely unchanged compared to the prior quarter. Average Wealth Management deposits increased $113 million over the fourth quarter of 2015 primarily due to a $125 million increase in interest-bearing transaction account balances and a $22 million increase in demand deposits, partially offset by a $34 million decrease in time deposit balances.

Brokered deposits, included in time deposits, averaged $362 million for the first quarter of 2016, a decrease of $40 million compared to the fourth quarter of 2015. Average interest-bearing transaction accounts for the first quarter included $553 million of brokered deposits, a decrease of $4.9 million compared to the fourth quarter of 2015. Changes in average brokered deposits largely affect Funds Management and Other.

The distribution of our period end deposit account balances among principal markets follows in Table 24.

Table 24 -- Period End Deposits by Principal Market Area
(In thousands)

	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Bank of Oklahoma:					
Demand	$3,813,128	$4,133,520	$3,834,145	$4,068,088	$3,982,534
Interest-bearing:					
Transaction	5,706,067	5,971,819	5,783,258	6,018,381	6,199,468
Savings	246,122	226,733	225,580	225,694	227,855
Time	1,198,022	1,202,274	1,253,137	1,380,566	1,372,250
Total interest-bearing	7,150,211	7,400,826	7,261,975	7,624,641	7,799,573
Total Bank of Oklahoma	10,963,339	11,534,346	11,096,120	11,692,729	11,782,107
Bank of Texas:					
Demand	2,571,883	2,627,764	2,689,493	2,565,234	2,511,032
Interest-bearing:					
Transaction	2,106,905	2,132,099	1,996,223	2,020,817	2,062,063
Savings	83,263	77,902	74,674	74,373	76,128
Time	530,657	549,740	554,106	536,844	547,371
Total interest-bearing	2,720,825	2,759,741	2,625,003	2,632,034	2,685,562
Total Bank of Texas	5,292,708	5,387,505	5,314,496	5,197,268	5,196,594
Bank of Albuquerque:					
Demand	557,200	487,286	520,785	508,224	537,466
Interest-bearing:					
Transaction	560,684	563,723	529,862	537,156	535,791
Savings	47,187	43,672	41,380	41,802	42,088
Time	259,630	267,821	281,426	285,890	290,706
Total interest-bearing	867,501	875,216	852,668	864,848	868,585
Total Bank of Albuquerque	1,424,701	1,362,502	1,373,453	1,373,072	1,406,051
Bank of Arkansas:					
Demand	31,318	27,252	25,397	19,731	31,002
Interest-bearing:					
Transaction	265,803	202,857	290,728	284,349	253,691
Savings	1,929	1,747	1,573	1,712	1,677
Time	21,035	24,983	26,203	28,220	28,277
Total interest-bearing	288,767	229,587	318,504	314,281	283,645
Total Bank of Arkansas	320,085	256,839	343,901	334,012	314,647
Colorado State Bank & Trust:					
Demand	413,506	497,318	430,675	403,491	412,532
Interest-bearing:					
Transaction	610,077	616,697	655,206	601,741	604,665
Savings	33,108	31,927	31,398	31,285	31,524
Time	271,475	296,224	320,279	322,432	340,006
Total interest-bearing	914,660	944,848	1,006,883	955,458	976,195

Total Colorado State Bank & Trust	1,328,166	1,442,166	1,437,558	1,358,949	1,388,727

	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Bank of Arizona:					
Demand	341,828	326,324	306,425	352,024	271,091
Interest-bearing:					
Transaction	313,825	358,556	293,319	298,073	295,480
Savings	3,277	2,893	4,121	2,726	2,900
Time	29,053	29,498	26,750	28,165	28,086
Total interest-bearing	346,155	390,947	324,190	328,964	326,466
Total Bank of Arizona	687,983	717,271	630,615	680,988	597,557
Bank of Kansas City:					
Demand	221,812	197,424	234,847	239,609	263,920
Interest-bearing:					
Transaction	146,405	153,203	150,253	139,260	157,044
Savings	1,619	1,378	1,570	1,580	1,618
Time	31,502	35,524	36,630	42,262	45,082
Total interest-bearing	179,526	190,105	188,453	183,102	203,744
Total Bank of Kansas City	401,338	387,529	423,300	422,711	467,664
Total BOK Financial deposits	$20,418,320	$21,088,158	$20,619,443	$21,059,729	$21,153,347

In addition to deposits, subsidiary bank liquidity is provided primarily by federal funds purchased, securities repurchase agreements and Federal Home Loan Bank borrowings. Federal funds purchased consist primarily of unsecured, overnight funds acquired from other financial institutions. Funds are primarily purchased from bankers' banks and Federal Home Loan banks from across the country. There were no wholesale federal funds purchased outstanding at March 31, 2016. Securities repurchase agreements generally mature within 90 days and are secured by certain available for sale securities. Federal Home Loan Bank borrowings are generally short term and are secured by a blanket pledge of eligible collateral (generally unencumbered U.S. Treasury and agency mortgage-backed securities, 1-4 family residential mortgage loans, multifamily and other qualifying commercial real estate loans). Amounts borrowed from the Federal Home Loan Bank of Topeka averaged $5.5 billion during the quarter, compared to $4.9 billion in the fourth quarter of 2015.

At March 31, 2016, the estimated unused credit available to the subsidiary bank from collateralized sources was approximately $4.4 billion.

A summary of other borrowings by the subsidiary bank follows in Table 25.

Table 25 -- Borrowed Funds
(In thousands)

		Three Months Ended March 31, 2016				Three Months Ended December 31, 2015		
	March 31, 2016	Average Balance During the Quarter	Rate	Maximum Outstanding At Any Month End During the Quarter	December 31, 2015	Average Balance During the Quarter	Rate	Maximum Outstanding At Any Month End During the Quarter
Funds purchased	$62,755	$112,211	0.27%	$ 567,103	$ 491,192	$73,220	0.11%	$ 491,192
Repurchase agreements	630,101	662,640	0.05%	649,579	722,444	623,921	0.04%	722,444
Other borrowings:								
Federal Home Loan Bank advances	5,600,000	5,547,803	0.53%	5,600,000	4,800,000	4,921,739	0.34%	5,000,000
GNMA repurchase liability	15,491	17,594	4.91%	19,520	19,478	16,668	4.81%	19,478
Other	18,371	18,520	2.45%	18,747	18,402	18,768	2.29%	18,906
Total other borrowings	5,633,862	5,583,917	0.56%		4,837,880	4,957,175	0.38%	
Subordinated debentures	226,385	226,368	1.26%	226,385	226,350	226,332	1.13%	226,350
Total Borrowed Funds	$6,553,103	$6,585,136	0.53%		$ 6,277,866	$5,880,648	0.34%	

In 2007, the Company issued $250 million of subordinated debt due May 15, 2017 to fund the Worth National Bank and First United Bank acquisitions and fund continued asset growth. Interest on this debt was based on a fixed rate of 5.75 percent through May 14, 2012 which then converted to a floating rate of three-month LIBOR plus 0.69 percent. At March 31, 2016, $227 million of this subordinated debt remains outstanding.

The Bank also has a liability related to the repurchase of certain delinquent residential mortgage loans previously sold in GNMA mortgage pools. Interest is payable monthly at rates contractually due to investors.

Parent Company

At March 31, 2016, cash and interest-bearing cash and cash equivalents held by the Parent Company totaled $267 million. The primary sources of liquidity for BOK Financial are cash on hand and dividends from the subsidiary bank. Dividends from the subsidiary bank are limited by various banking regulations to net profits, as defined, for the year plus retained profits for the two preceding years. Dividends are further restricted by minimum capital requirements. At March 31, 2016, based upon the most restrictive limitations as well as management's internal capital policy, the subsidiary bank could declare up to $126 million of dividends without regulatory approval. Dividend constraints may be alleviated through increases in retained earnings, capital issuances or changes in risk weighted assets. Future losses or increases in required regulatory capital at the subsidiary bank could affect its ability to pay dividends to the parent company.

Our equity capital at March 31, 2016 was $3.4 billion, an increase of $89 million over December 31, 2015. Net income less cash dividends paid increased equity $14 million during the first quarter of 2016. Accumulated other comprehensive income increased $72 million primarily related to the change in unrealized gains on available for sale securities due to changes in interest rates. Capital is managed to maximize long-term value to the shareholders. Factors considered in managing capital include projections of future earnings, asset growth and acquisition strategies, and regulatory and debt covenant requirements. Capital management may include subordinated debt issuance, share repurchase and stock and cash dividends.

On October 27, 2015, the board of directors authorized the Company to purchase up to five million common shares, subject to market conditions, securities law and other regulatory compliance limitations. As of March 31, 2016, a cumulative total of 1,874,074 shares have been repurchased under this authorization. No shares were repurchased in the first quarter of 2016.

BOK Financial and the subsidiary bank are subject to various capital requirements administered by federal agencies. Failure to meet minimum capital requirements can result in certain mandatory and possibly additional discretionary actions by regulators that could have a material impact on operations. These capital requirements include quantitative measures of assets, liabilities and off-balance sheet items. The capital standards are also subject to qualitative judgments by the regulators.

Effective January 1, 2015 for BOK Financial, regulatory capital rules establish a 7 percent threshold for the common equity Tier 1 ratio consisting of a minimum level plus capital conservation buffer. The Company has elected to exclude unrealized gains and losses from available for sale securities from its calculation of Tier 1 capital, consistent with the treatment under previous capital rules.

The minimum Tier 1 risk based capital requirements and the total risk based requirements are 6 percent and 8 percent, respectively, plus a capital conservation buffer of 2.5 percent totaling 8.5 percent and 10.5 percent, respectively. The leverage ratio requirement under the rule is 4 percent. A bank which falls below these levels, including the capital conservation buffer, would be subject to regulatory restrictions on capital distributions (including but not limited to dividends and share repurchases) and executive bonus payments.

The capital ratios for BOK Financial on a consolidated basis are presented in Table 26.

Table 26 -- Capital Ratios

	Minimum Capital Requirement[1]	Capital Conservation Buffer[2]	Minimum Capital Requirement Including Capital Conservation Buffer	March 31, 2016	Dec. 31, 2015	March 31, 2015
Risk-based capital:						
Common equity Tier 1	4.50 %	2.50 %	7.00 %	12.00 %	12.13 %	13.07 %
Tier 1 capital	6.00 %	2.50 %	8.50 %	12.00 %	12.13 %	13.07 %
Total capital	8.00 %	2.50 %	10.50 %	13.21 %	13.30 %	14.39 %
Tier 1 Leverage	4.00 %	N/A	4.00 %	9.12 %	9.25 %	9.74 %
Average total equity to average assets				10.55 %	10.81 %	11.18 %
Tangible common equity ratio				9.34 %	9.02 %	9.86 %

[1] Effective January 1, 2015

[2] Effective January 1, 2016

Capital resources of financial institutions are also regularly measured by the tangible common shareholders' equity ratio. Tangible common shareholders' equity is shareholders' equity as defined by generally accepted accounting principles in the United States of America ("GAAP") less intangible assets and equity which does not benefit common shareholders. Equity that does not benefit common shareholders includes preferred equity. This non-GAAP measure is a valuable indicator of a financial institution's capital strength since it eliminates intangible assets from shareholders' equity and retains the effect of unrealized losses on securities and other components of accumulated other comprehensive income in shareholders' equity.

Table 27 provides a reconciliation of the non-GAAP measures with financial measures defined by GAAP.

Table 27 -- Non-GAAP Measure
(Dollars in thousands)

	March 31, 2016	Dec. 31, 2015	Sept. 30, 2015	June 30, 2015	March 31, 2015
Tangible common equity ratio:					
Total shareholders' equity	$3,321,555	$3,230,556	$3,377,226	$3,375,632	$3,357,161
	428,733	429,370	430,460	431,515	411,066

Less: Goodwill and intangible assets, net					
Tangible common equity	2,892,822	2,801,186	2,946,766	2,944,117	2,946,095
Total assets	31,413,945	31,476,128	30,566,905	30,725,563	30,299,978
Less: Goodwill and intangible assets, net	428,733	429,370	430,460	431,515	411,066
Tangible assets	$30,985,212	$31,046,758	$30,136,445	$30,294,048	$29,888,912
Tangible common equity ratio	9.34 %	9.02 %	9.78 %	9.72 %	9.86 %

Off-Balance Sheet Arrangements

See Note 7 to the Consolidated Financial Statements for a discussion of the Company’s significant off-balance sheet commitments.

Market Risk

Market risk is a broad term for the risk of economic loss due to adverse changes in the fair value of a financial instrument. These changes may be the result of various factors, including interest rates, foreign exchange rates, commodity prices or equity prices. Financial instruments that are subject to market risk can be classified either as held for trading or held for purposes other than trading. Market risk excludes changes in fair value due to the credit of the individual issuers of financial instruments.

BOK Financial is subject to market risk primarily through the effect of changes in interest rates on both its assets held for purposes other than trading and trading assets. The effects of other changes, such as foreign exchange rates, commodity prices or equity prices do not pose significant market risk to BOK Financial. BOK Financial has no material investments in assets that are affected by changes in foreign exchange rates or equity prices. Energy and agricultural product derivative contracts, which are affected by changes in commodity prices, are matched against offsetting contracts as previously discussed.

The Asset/Liability Committee is responsible for managing market risk in accordance with policy guidelines established by the Board of Directors. The Committee monitors projected variation in net interest revenue, net income and economic value of equity due to specified changes in interest rates. The internal policy limit for net interest revenue variation is a maximum decline of 5 percent to an up or down 200 basis point change over twelve months. These guidelines also set maximum levels for short-term borrowings, short-term assets, public funds and brokered deposits and establish minimum levels for unpledged assets, among other things. Compliance with these internal guidelines is reviewed monthly. The Asset/Liabilty Committee is also responsible for monitoring market risk limits for mortgage banking production and mortgage servicing assets inclusive of economic hedge benefits. Each of these desks must limit projected exposure from a 50 basis point change in interest rates.

Interest Rate Risk – Other than Trading

As previously noted in the Net Interest Revenue section of this report, management has implemented strategies to manage the Company’s balance sheet to have relatively limited exposure to changes in interest rates over a twelve-month period. The effectiveness of these strategies in managing the overall interest rate risk is evaluated through the use of an asset/liability model. BOK Financial performs a sensitivity analysis to identify more dynamic interest rate risk exposures, including embedded option positions on net interest revenue, net income and economic value of equity. A simulation model is used to estimate the effect of changes in interest rates on the Company's performance across multiple interest rate scenarios. While the current internal policy limit for net interest revenue variation is a maximum decline of 5 percent due to a 200 basis point change over twelve months, the results of a 200 basis point decrease in interest rates in the current low-rate environment are not meaningful. We report the effect of a 50 basis point decrease in the interim.

The Company’s primary interest rate exposures include the Federal Funds rate, which affects short-term borrowings, and the prime lending rate and LIBOR, which are the basis for much of the variable rate loan pricing. Additionally, residential mortgage rates directly affect the prepayment speeds for residential mortgage-backed securities and mortgage servicing rights. Derivative financial instruments and other financial instruments used for purposes other than trading are included in this simulation. In addition, the impact on the level and composition of DDA and other core deposit balances resulting from a significant increase in short-term market interest rates and the overall interest rate environment is likely to be material. The simulation incorporates assumptions regarding the effects of such changes based on a combination of historical analysis and expected behavior. The impact of planned growth and new business activities is factored into the simulation model. The effects of changes in interest rates on the value of mortgage servicing rights are excluded from Table 28 due to the extreme volatility over such a large rate range and our active risk management approach for that asset. The effects of interest rate changes on the value of mortgage

servicing rights are presented in Note 6 to the Consolidated Financial Statements.

The simulations used to manage market risk are based on numerous assumptions regarding the effects of changes in interest rates on the timing and extent of re-pricing characteristics, future cash flows and customer behavior. These assumptions are inherently uncertain and, as a result, the model cannot precisely estimate net interest revenue, net income or economic value of equity or precisely predict the impact of higher or lower interest rates on net interest revenue, net income or economic value of equity. Actual results will differ from simulated results due to timing, magnitude and frequency of interest rate changes, market conditions and management strategies, among other factors.

Table 28 -- Interest Rate Sensitivity
(Dollars in thousands)

	200 bp Increase March 31,		50 bp Decrease March 31,	
	2016	2015	2016	2015
Anticipated impact over the next twelve months on net interest revenue	$(2,153)	$(5,364)	$(24,184)	$(20,193)
	(0.28)%	(0.72)%	(3.14)%	(2.73)%

Trading Activities

BOK Financial enters into trading activities both as an intermediary for customers and for its own account. As an intermediary, BOK Financial will take positions in securities, generally residential mortgage-backed securities, government agency securities and municipal bonds. These securities are purchased for resale to customers, which include individuals, corporations, foundations and financial institutions. On a limited basis, BOK Financial may also take trading positions in U.S. Treasury securities, residential mortgage-backed securities and municipal bonds to enhance returns on its securities portfolios. Both of these activities involve interest rate risk. BOK Financial has an insignificant exposure to foreign exchange risk and does not take positions in commodity derivatives.

A variety of methods are used to manage the interest rate risk of trading activities. These methods include daily marking of all positions to market value, independent verification of inventory pricing, and position limits for each trading activity. Economic hedges in either the futures, over the counter derivatives or cash markets may be used to reduce the risk associated with some trading programs.

Management uses a Value at Risk ("VaR") methodology to measure market risk due to changes in interest rates inherent in its trading activities. VaR is calculated based upon historical simulations over the past five years using a variance/covariance matrix of interest rate changes, a 10 business day holding period and a 99 percent confidence interval. It represents an amount of market loss that is likely to be exceeded in only one out of every 100 two-week periods. Trading positions are managed within guidelines approved by the Board of Directors. These guidelines limit the VaR to $7.3 million. There were no instances of VaR being exceeded during the three months ended March 31, 2016 and 2015. At March 31, 2016, there were no trading positions for the purposes of enhancing returns on the Company's securities portfolio.

The average, high and low VaR amounts for the three months ended March 31, 2016 and March 31, 2015 are as follows in Table 29.

Table 29 -- Value at Risk (VaR)
(In thousands)

	Three Months Ended March 31,	
	2016	2015
Average	$1,814	$1,475
High	4,130	2,053
Low	774	782

Controls and Procedures

As required by Rule 13a-15(b), BOK Financial’s management, including the Chief Executive Officer and Chief Financial Officer, conducted an evaluation as of the end of the period covered by their report, of the effectiveness of

the Company's disclosure controls and procedures as defined in Exchange Act Rule 13a-15(e). Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that the disclosure controls and procedures were effective as of the end of the period covered by this report. As required by Rule 13a-15(d), BOK Financial's management, including the Chief Executive Officer and Chief Financial Officer, also conducted an evaluation of the Company's internal controls over financial reporting to determine whether any changes occurred during the quarter covered by this report that have materially affected, or are reasonably likely to materially affect, the Company's internal controls over financial reporting. Based on that evaluation, there has been no such change during the quarter covered by this report.

Forward-Looking Statements

This report contains forward-looking statements that are based on management's beliefs, assumptions, current expectations, estimates, and projections about BOK Financial, the financial services industry and the economy in general. Words such as "anticipates," "believes," "estimates," "expects," "forecasts," "plans," "projects," variations of such wo and similar expressions are intended to identify such forward-looking statements. Management judgments relating to and discussion of the provision and allowance for loan losses involve judgments as to expected events and are inherently forward-looking statements. Assessments that BOK Financial's acquisitions and other growth endeavors will be profitable are necessary statements of belief as to the outcome of future events, based in part on information provided by others that BOK Financial has not independently verified. These statements are not guarantees of future performance and involve certain risks, uncertainties and assumptions that are difficult to predict with regard to timing, extent, likelihood and degree of occurrence. Therefore, actual results and outcomes may materially differ from what is expressed, implied, or forecasted in such forward-looking statements. Internal and external factors that might cause such a difference include, but are not limited to: (1) the ability to fully realize expected cost savings from mergers within the expected time frames, (2) the ability of other companies on which BOK Financial relies to provide goods and services in a timely and accurate manner, (3) changes in interest rates and interest rate relationships, (4) demand for products and services, (5) the degree of competition by traditional and nontraditional competitors, (6) changes in banking regulations, tax laws, prices, levies, and assessments, (7) the impact of technological advances and (8) trends in customer behavior as well as their ability to repay loans. BOK Financial and its affiliates undertake no obligation to update, amend, or clarify forward-looking statements, whether as a result of new information, future events or otherwise.

Consolidated Statements of Earnings (Unaudited)

(In thousands, except share and per share data)	Three Months Ended March 31,	
Interest revenue	2016	2015
Loans	$139,112	$126,696
Residential mortgage loans held for sale	2,700	2,949
Trading securities	524	507
Taxable securities	3,175	3,326
Tax-exempt securities	1,212	1,344
Total investment securities	4,387	4,670
Taxable securities	44,932	43,105
Tax-exempt securities	535	620
Total available for sale securities	45,467	43,725
Fair value option securities	2,589	2,003
Restricted equity securities	4,311	2,597
Interest-bearing cash and cash equivalents	2,706	1,422
Total interest revenue	201,796	184,569
Interest expense		
Deposits	10,542	12,105
Borrowed funds	7,972	2,573
Subordinated debentures	710	2,165
Total interest expense	19,224	16,843
Net interest revenue	182,572	167,726
Provision for credit losses	35,000	—
Net interest revenue after provision for credit losses	147,572	167,726
Other operating revenue		
Brokerage and trading revenue	32,341	31,707
Transaction card revenue	32,354	31,010
Fiduciary and asset management revenue	32,056	31,469
Deposit service charges and fees	22,542	21,684
Mortgage banking revenue	34,430	39,320
Other revenue	11,904	10,801
Total fees and commissions	165,627	165,991
Other gains, net	1,560	755
Gain on derivatives, net	7,138	911
Gain on fair value option securities, net	9,443	2,647
Change in fair value of mortgage servicing rights	(27,988)	(8,522)
Gain on available for sale securities, net	3,964	4,327
Total other-than-temporary impairment losses	—	(781)
Portion of loss recognized in other comprehensive income	—	689
Net impairment losses recognized in earnings	—	(92)
Total other operating revenue	159,744	166,017
Other operating expense		
Personnel	135,843	128,548
Business promotion	5,696	5,748
Professional fees and services	11,759	10,059
Net occupancy and equipment	18,766	19,044
Insurance	7,265	4,980

Data processing and communications	32,017	29,772
Printing, postage and supplies	3,907	3,461
Net losses and operating expenses of repossessed assets	1,070	613
Amortization of intangible assets	1,159	1,090
Mortgage banking costs	12,379	10,167
Other expense	15,039	6,783
Total other operating expense	244,900	220,265
Net income before taxes	62,416	113,478
Federal and state income taxes	21,428	38,384
Net income	40,988	75,094
Net income (loss) attributable to non-controlling interests	(1,576)	251
Net income attributable to BOK Financial Corporation shareholders	$42,564	$74,843
Earnings per share:		
Basic	$0.64	$1.08
Diluted	$0.64	$1.08
Average shares used in computation:		
Basic	65,296,541	68,254,780
Diluted	65,331,428	68,344,886
Dividends declared per share	$0.43	$0.42

See accompanying notes to consolidated financial statements.

Consolidated Statements of Comprehensive Income (Unaudited)
(In thousands, except share and per share data)

	Three Months Ended March 31,	
	2016	2015
Net income	$40,988	$75,094
Other comprehensive income before income taxes:		
Net change in unrealized gain (loss)	121,091	59,387
Reclassification adjustments included in earnings:		
Interest revenue, Investments securities, Taxable securities	(69)	(179)
Interest expense, Subordinated debentures	—	65
Net impairment losses recognized in earnings	—	92
Gain on available for sale securities, net	(3,964)	(4,327)
Other comprehensive income before income taxes	117,058	55,038
Federal and state income taxes	45,536	21,408
Other comprehensive income, net of income taxes	71,522	33,630
Comprehensive income	112,510	108,724
Comprehensive income (loss) attributable to non-controlling interests	(1,576)	251
Comprehensive income attributable to BOK Financial Corp. shareholders	$114,086	$108,473

See accompanying notes to consolidated financial statements.

Consolidated Balance Sheets
(In thousands, except share data)

	Mar. 31, 2016 (Unaudited)	Dec. 31, 2015 (Footnote 1)	Mar. 31, 2015 (Unaudited)
Assets			
Cash and due from banks	$481,510	$573,699	$490,683
Interest-bearing cash and cash equivalents	1,831,162	2,069,900	2,119,987
Trading securities	279,539	122,404	118,044
Investment securities (fair value: March 31, 2016 – $609,743; December 31, 2015 – $629,159 ; March 31, 2015 – $657,971)	576,047	597,836	634,587
Available for sale securities	8,886,036	9,042,733	9,158,175
Fair value option securities	418,887	444,217	434,077
Restricted equity securities	314,590	273,684	212,685
Residential mortgage loans held for sale	332,040	308,439	513,196
Loans	16,022,566	15,941,154	14,684,136
Allowance for loan losses	(233,156)	(225,524)	(197,686)
Loans, net of allowance	15,789,410	15,715,630	14,486,450
Premises and equipment, net	311,161	306,490	279,075
Receivables	167,209	163,480	183,447
Goodwill	383,789	385,461	377,780
Intangible assets, net	44,944	43,909	33,286
Mortgage servicing rights	196,055	218,605	175,051
Real estate and other repossessed assets, net of allowance (March 31, 2016 – $11,913; December 31, 2015 – $12,622; March 31, 2015 – $18,886)	29,896	30,731	45,551
Derivative contracts, net	790,146	586,270	462,386
Cash surrender value of bank-owned life insurance	305,510	303,335	296,192
Receivable on unsettled securities sales	5,640	40,193	9,598
Other assets	270,374	249,112	269,728
Total assets	$31,413,945	$31,476,128	$30,299,978
Liabilities and Equity			
Liabilities:			
Noninterest-bearing demand deposits	$7,950,675	$8,296,888	$8,009,577
Interest-bearing deposits:			
Transaction	9,709,766	9,998,954	10,108,202
Savings	416,505	386,252	383,790
Time	2,341,374	2,406,064	2,651,778
Total deposits	20,418,320	21,088,158	21,153,347
Funds purchased	62,755	491,192	66,320
Repurchase agreements	630,101	722,444	897,663
Other borrowings	5,633,862	4,837,879	3,727,050
Subordinated debentures	226,385	226,350	348,030
Accrued interest, taxes and expense	148,711	119,584	147,184
Derivative contracts, net	705,578	581,701	419,351
Due on unsettled securities purchases	19,508	16,897	25,935
Other liabilities	212,460	124,284	124,846
Total liabilities	28,057,680	28,208,489	26,909,726
Shareholders' equity:			

Common stock ($.00006 par value; 2,500,000,000 shares authorized; shares issued and outstanding: March 31, 2016 – 74,800,772; December 31, 2015 – 74,530,364; March 31, 2015 – 74,351,392)	4	4	4
Capital surplus	987,046	982,009	959,650
Retained earnings	2,718,301	2,704,121	2,576,953
Treasury stock (shares at cost: March 31, 2016 – 8,645,669 ; December 31, 2015 – 8,636,332; March 31, 2015 – 5,429,078)	(476,905)	(477,165)	(269,749)
Accumulated other comprehensive income	93,109	21,587	90,303
Total shareholders' equity	3,321,555	3,230,556	3,357,161
Non-controlling interests	34,710	37,083	33,091
Total equity	3,356,265	3,267,639	3,390,252
Total liabilities and equity	$31,413,945	$31,476,128	$30,299,978

See accompanying notes to consolidated financial statements.

Consolidated Statements of Changes in Equity (Unaudited)
(In thousands)

	Common Stock		Capital Surplus	Retained Earnings	Treasury Stock		Accumulated Other Comprehensive Income	Total Shareholders' Equity	Non-Controlling Interests	Total Equity
	Shares	Amount			Shares	Amount				
Balance, Dec. 31, 2014	74,004	$4	$954,644	$2,530,837	4,890	$(239,979)	$56,673	$3,302,179	$34,027	$3,336,206
Net income	—	—	—	74,843	—	—	—	74,843	251	75,094
Other comprehensive income	—	—	—	—	—	—	33,630	33,630	—	33,630
Repurchase of common stock	—	—	—	—	502	(29,484)	—	(29,484)	—	(29,484)
Issuance of shares for equity compensation	347	—	2,926	—	37	(286)	—	2,640	—	2,640
Tax effect from equity compensation, net	—	—	215	—	—	—	—	215	—	215
Share-based compensation	—	—	1,865	—	—	—	—	1,865	—	1,865
Cash dividends on common stock	—	—	—	(28,727)	—	—	—	(28,727)	—	(28,727)
Capital calls and distributions, net	—	—	—	—	—	—	—	—	(1,187)	(1,187)
Balance, March 31, 2015	74,351	$4	$959,650	$2,576,953	5,429	$(269,749)	$90,303	$3,357,161	$33,091	$3,390,252
Balance, Dec. 31, 2015	74,530	$4	$982,009	$2,704,121	8,636	$(477,165)	$21,587	$3,230,556	$37,083	$3,267,639
Net income	—	—	—	42,564	—	—	—	42,564	(1,576)	40,988
Other comprehensive income	—	—	—	—	—	—	71,522	71,522	—	71,522
Repurchase of common stock	—	—	—	—	—	—	—	—	—	—
Issuance of shares for equity compensation	271	—	1,191	—	10	260	—	1,451	—	1,451
	—	—	1,816	—	—	—	—	1,816	—	1,816

Tax effect from equity compensation, net										
Share-based compensation	—	—	2,030	—	—	—	—	2,030	—	2,030
Cash dividends on common stock	—	—	—	(28,384)	—	—	—	(28,384)	—	(28,384)
Capital calls and distributions, net	—	—	—	—	—	—	—	—	(797)	(797)
Balance, March 31, 2016	74,801	$4	$987,046	$2,718,301	8,646	$(476,905)	$93,109	$3,321,555	$34,710	$3,356,265

See accompanying notes to consolidated financial statements.

Consolidated Statements of Cash Flows (Unaudited)
(in thousands)

	Three Months Ended March 31,	
	2016	2015
Cash Flows From Operating Activities:		
Net income	$40,988	$75,094
Adjustments to reconcile net income to net cash provided by (used in) operating activities:		
Provision for credit losses	35,000	—
Change in fair value of mortgage servicing rights	27,988	8,522
Unrealized losses (gains) from derivative contracts	(13,788)	641
Tax effect from equity compensation, net	(1,816)	(215)
Change in bank-owned life insurance	(2,170)	(2,198)
Share-based compensation	2,030	1,865
Depreciation and amortization	18,907	16,800
Net amortization of securities discounts and premiums	11,213	14,511
Net realized gains on financial instruments and other net gains	(4,035)	(5,956)
Net gain on mortgage loans held for sale	(10,779)	(20,702)
Mortgage loans originated for sale	(1,244,015)	(1,565,016)
Proceeds from sale of mortgage loans held for sale	1,239,391	1,382,042
Capitalized mortgage servicing rights	(13,582)	(19,150)
Change in trading and fair value option securities	(132,436)	(52,479)
Change in receivables	(3,264)	(16,008)
Change in other assets	3,145	(6,293)
Change in accrued interest, taxes and expense	(13,132)	5,521
Change in other liabilities	65,593	8,173
Net cash provided by (used in) operating activities	5,238	(174,848)
Cash Flows From Investing Activities:		
Proceeds from maturities or redemptions of investment securities	32,308	19,378
Proceeds from maturities or redemptions of available for sale securities	335,565	513,939
Purchases of investment securities	(12,189)	(3,363)
Purchases of available for sale securities	(536,078)	(980,768)
Proceeds from sales of available for sale securities	469,382	334,825
Change in amount receivable on unsettled securities transactions	34,553	64,661
Loans originated, net of principal collected	(92,648)	(458,118)
Net payments on derivative asset contracts	(155,263)	(83,354)
Acquisitions, net of cash acquired	(7,700)	—
Proceeds from disposition of assets	38,903	66,111
Purchases of assets	(75,893)	(108,579)
Net cash provided by (used in) investing activities	30,940	(635,268)
Cash Flows From Financing Activities:		
Net change in demand deposits, transaction deposits and savings accounts	(605,148)	(30,574)
Net change in time deposits	(64,690)	43,062
Net change in other borrowed funds	246,609	1,283,330
Net proceeds on derivative liability contracts	154,506	70,377
Net change in derivative margin accounts	(75,876)	(101,290)
Change in amount due on unsettled security transactions	2,611	(264,605)
Issuance of common and treasury stock, net	1,451	2,640
Tax effect from equity compensation, net	1,816	215

Repurchase of common stock	—	(29,484