

First Quarter 2016 Earnings Presentation

NASDAQ: GNBC April 28, 2016

Today's Speakers



- Manny Mehos Chairman and Chief Executive Officer
- Geoff Greenwade President and Bank Chief Executive Officer
- Donald Perschbacher Executive Vice President & Corporate Chief Credit
 Officer
- John Durie Executive Vice President and Chief Financial Officer

Safe Harbor



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In addition to factors previously disclosed in Green Bancorp's reports filed with the SEC and those identified elsewhere in this communication, the following factors among others, could cause actual results to differ materially from forward-looking statements: difficulties and delays in integrating the Green Bancorp and Patriot Bancshares, Inc. businesses or fully realizing cost savings and other benefits; business disruption following the proposed transaction; changes in asset quality and credit risk; the inability to sustain revenue and earnings growth; changes in interest rates and capital markets; inflation; customer borrowing, repayment, investment and deposit practices; customer disintermediation; the introduction, withdrawal, success and timing of business initiatives; competitive conditions; the inability to realize cost savings or revenues or to implement integration plans and other consequences associated with mergers, acquisitions and divestitures; economic conditions; and the impact, extent and timing of technological changes, capital management activities, and other actions of the Federal Reserve Board and legislative and regulatory actions and reforms.

Annualized, pro forma, projected and estimated numbers are used for illustrative purpose only, are not forecasts and may not reflect actual results.



First Quarter Highlights

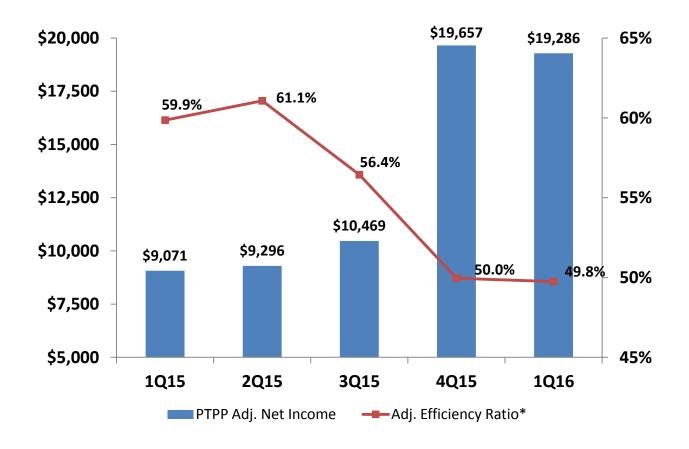


- Earnings per diluted share of \$0.05, compared to \$0.07 in the fourth quarter of 2015, after recording \$16.0 million in provision for loan losses
- Net income of \$1.8 million, compared to \$2.6 million in the fourth quarter of 2015
- Pre-tax, pre-provision adjusted net income of \$19.2 million, compared to \$19.7 million in the fourth quarter of 2015 and \$9.1 million in the first quarter of 2015
- Loan growth of \$38 million or 1.2% to \$3.2 billion, compared with December 31, 2015

Pre-Tax Pre-Provision Adjusted Net Income



Core profitability remains robust, despite overhang from energy portfolio



(*) excludes one-time acquisition expenses



Managed Asset Reduction Strategy 'MARS'



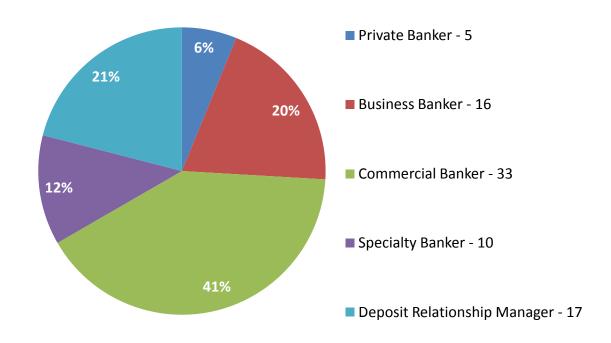
- Objective is to remove the barrier to execution of the Company's strategic plan by addressing energy exposure
- Strategy is being implemented by a team of eight dedicated and experienced workout professionals reporting to the Corporate Chief Credit Officer
- The MARS portfolio includes all \$277 million in energy loans as well as other classified assets
- Strategies include:
 - Restructuring debt terms and/or pricing, possible commitment reductions
 - Negotiated repayment with debtors
 - One-off and portfolio note sales
 - Potential foreclosure and liquidation of collateral
 - Auctions
 - Other proven asset management and disposition techniques

Existing Banker Capacity



 Our current group of bankers have the capacity to support up to \$4 billion of both loans and deposits:

Banking Staff as of March 31, 2016

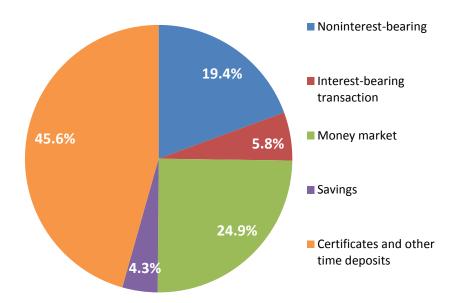


Deposit Update



Total Deposit Composition

As of March 31, 2016



Highlights

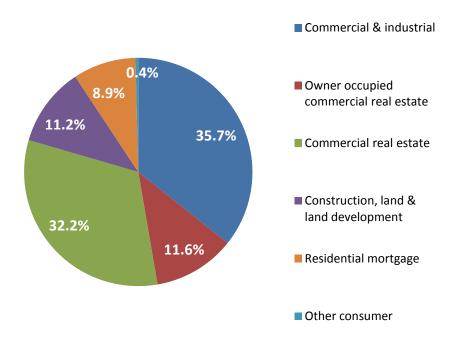
- Total deposits were \$3.1 billion as of March 31, 2016
- Noninterest-bearing deposits were 19.4% of deposits at March 31, 2016
- Cost of deposits including noninterestbearing was 0.52%, up 6 bps from the fourth quarter

Loan Update



Total Loan Composition

As of March 31, 2016



Highlights

- Net loan growth of \$38 million during the first quarter
- Loan yield for the first quarter of 2016 was 4.81%
 - Loan yield, excluding fees, for the first quarter was 4.29%, compared to 4.22% in the fourth quarter of 2015
 - Fees and discounts at payoff contributed approximately 7 basis points to the first quarter loan yield
 - Accretion of fees and discounts (net) contributed approximately 45 basis points to the first quarter loan yield

Energy Portfolio Update



- Energy-related exposure declined to 8.8% of total loans as of March 31, 2016
 - Reserve-based lending represents approximately 3.5% of total loan portfolio
 - Oilfield services lending represents approximately 5.3% of total loan portfolio
 - Allocated reserve of \$18.3 million represents 7% of energy-related portfolio
- The mix of reserved-based borrower production is 79% oil and 21% natural gas, 71% of oil production is hedged through 2016
- 80% of energy-related exposure is direct, 20% is SNC
 - Green Bank maintains ongoing relationships with all borrowers
- Charge-offs and grade migration in the energy-related portfolio were the major drivers of increased provisions for the quarter

Credit Quality



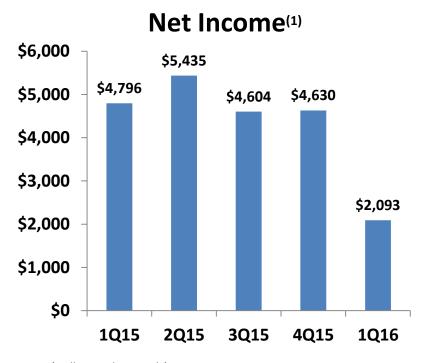
- NPA's totaled \$77.5 million or 2.01% of period end assets at March 31, 2016 compared to \$57.2 million or 1.51% of period end total assets at December 31, 2015
- The net increase in NPA's is evenly split between energy-related loans and Patriot assets
- Allowance for loan losses was 1.25% of total loans at March 31, 2016, an increase of 20 basis points from 1.05% at December 31, 2015
- Provision expense of \$16.0 million in the first quarter 2016 reflects the addition of specific reserves and an increase in general reserves driven by loan growth, increases in classified loans, changes in economic factors and an increase in the Company's general reserve factor related to historical losses

First Quarter 2016 Financial Highlights



	2016 Q1	2015 Q4
Net Income ⁽¹⁾	2,093	4,630
EPS ⁽¹⁾	\$0.06	\$0.13
ROAA ⁽¹⁾	0.22%	0.49%
Loans ⁽²⁾	\$3,168,183	\$3,130,669
Deposits	\$3,057,019	\$3,100,748

^{*}Dollars in thousands, except per share data



(Dollars in thousands)

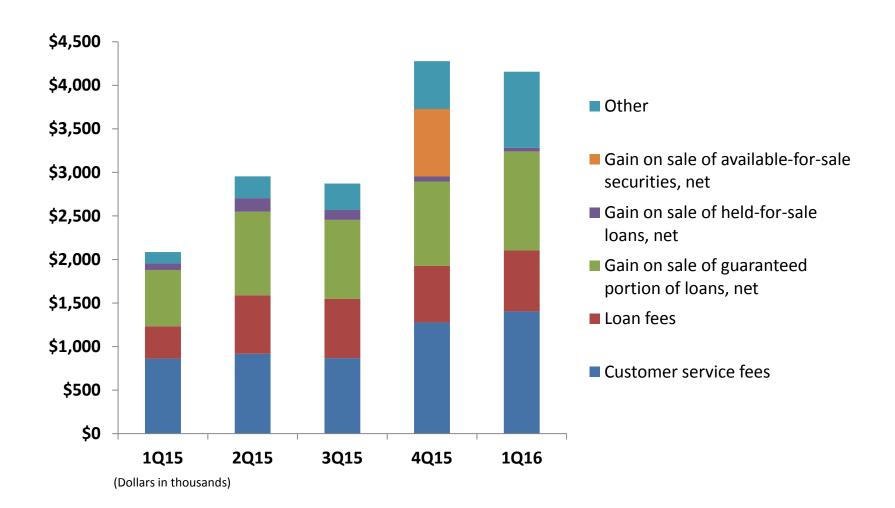
⁽²⁾ Excluding loans held for sale



⁽¹⁾ Excluding one-time acquisition expenses

Noninterest Income

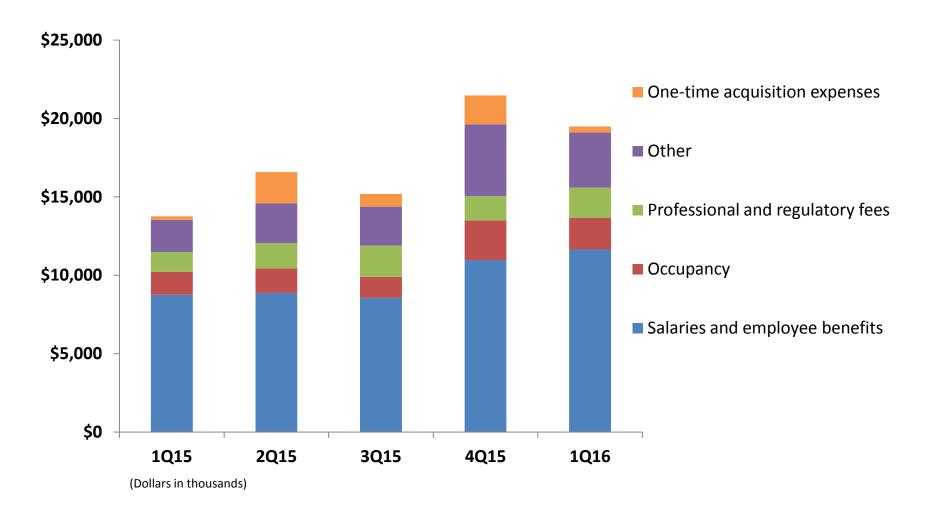






Noninterest Expense

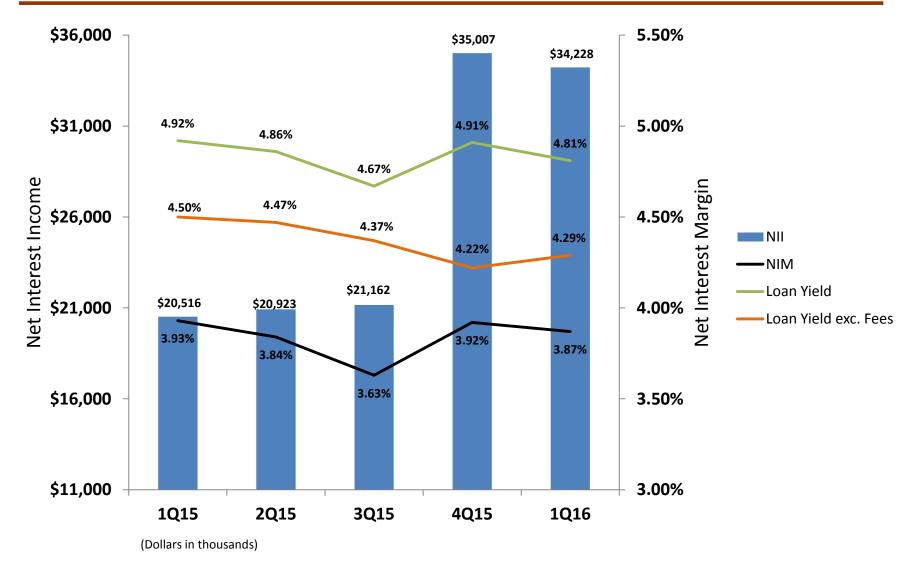






Net Interest Income and Net Interest Margin



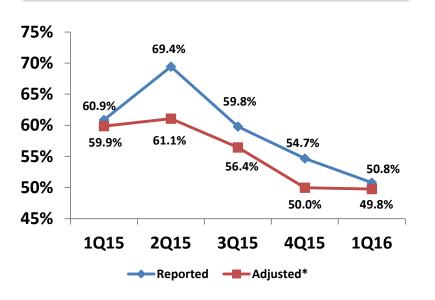




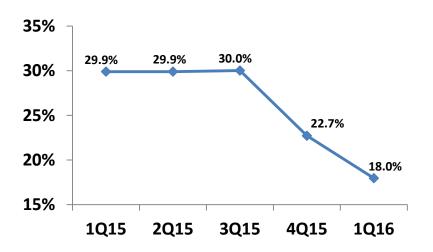
Performance Metrics



Efficiency Ratio



Remaining Banker Capacity



(*) excludes one-time acquisition expenses





Question & Answer Session