Jackson Masonry Loan Relationship: A Case in Commercial Bank Lending

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Abstract

This case describes a series of loan renewals and credit requests of a manufacturing firm and a community bank. The case is designed to be used in 3 parts, with new issues presented in each which demonstrate how a loan relationship can change over time. Part 1 can be used as a standalone introductory lending case, or it can be easily incorporated into part 2 for a slightly more advanced stand alone case. Alternatively, the cases can be assigned in order to provide students a progression in dealing with a single client. Students learn how to present and analyze financial statements, the complexities of pro forma statements, and how credit risk changes over time.

Keywords: bank lending, financial statement analysis, credit risk

Part 1: Annual Loan Review

Current Date: early January 2010

Jackson Masonry Incorporated is a producer of masonry products, and the company supplies building materials including brick, pavers, and stone throughout a multi-county area of east Texas. Its plant is located in Smithton, Texas. The company is well respected in the community and is a major supplier of jobs for the area.

Pineywoods National Bank (PNB) is a successful community bank also located in Smithton, with two other branches in neighboring counties. The bank has total assets of just over \$300 million and focuses on serving all the banking needs of its customers. Its products include both personal and business loans, a wide range of deposit accounts, and trust and investment services.

Jackson Masonry has been a customer of PNB for over 50 years, and uses PNB exclusively for all deposit accounts as well as a \$200,000 unsecured line of credit. They have never been more than 30 days late with a payment. The loan officer for the account is Joseph Berry, who has been in the banking profession for 25 years and has been with PNB for the past 15 years. He is the lead commercial lender at the Smithton branch and is well respected both in the bank and throughout the community.

Jackson Masonry was founded by William Jackson in 1962. It is incorporated and privately owned by William (now 72) and his three children, Billy, Andrew, and Michelle. William is the president and CEO and owns 40% of the company's shares. Each sibling owns 20% and also

works in the company. Billy is the Chief Operating Officer, Andrew is Vice President of Sales, and Michelle (who has an engineering degree) is the Vice President of Manufacturing. The other officer of the company is Mark Johnson, a CPA who is the Controller.

William started the company as a manufacturer of decorative clay pots used in gardening. The company expanded into brick production in the 1970's, and that has been the driving force of company growth since then. The company now employs about 160 production workers, and a management and sales team of around 20, including the Jackson family. Producing the bricks is difficult work, and there is a high turnover rate for new employees. However, once an employee stays past the first year, the average tenure is nearly 15 years. William believes the longevity of so many of the workers is one of the keys to producing high quality product, and offers employees a generous benefit package. William also notes that the company has not had to lay off a worker at any point since the company began operations.

It is now time for the annual review of the company's line of credit. A loan of \$200,000 is a significant credit to PNB, so the loan is presented to the full loan committee for review. Over the past year, the line has reached a high of \$150,000 and a low of \$65,000. Interest is due quarterly and is always paid on time. The loan is used to fund purchases of inventory and other short-term credit needs. It was initiated when the company first began brick production, and has grown from a \$50,000 line to its current limit of \$200,000.

Jackson Masonry's financial statements for financial years 2005 to 2007 are listed in the Appendix.

Assignment

Construct balance sheets and income statements for 2007 to 2009. Use raw numbers (given), common size, and year over year growth.

Construct cash flow statements for 2008 and 2009.

Perform a ratio analysis of the company for 2007 to 2009. Include comments concerning the trends/comparisons for the ratios and financial statements.

Questions to Discuss

- 1. What are the strengths and weaknesses of this credit renewal?
- 2. What economics factors may impact sales and profits of Jackson Masonry?
- 3. What are the main concerns (if any) that Mr. Berry may have at this point?
- 4. What other issues should be addressed; what questions do you have for Jackson Masonry?
- 5. Based on the analysis, should BNB renew the line of credit? Justify your position.

Part 2: Loan Request

Current date: late January 2010

This case describes a loan request from Jackson Masonry and builds upon case 1, with the assumption that the line of credit was renewed.

During a recent visit to Jackson Masonry, Joseph Berry met with both William and Billy Jackson. They explained a few changes that will be implemented over the next year. First, William is retiring as CEO and will no longer be involved in the day to day management of the firm, although he will retain his position as Chairman of the Board. Billy will assume the role of CEO while Andrew and Michelle will retain their current positions. Each family member agrees that this new structure is the best alternative.

Also during the meeting, William and Billy expressed how significant the impact of energy cost is in the production of brick. In order to improve the efficiency of its operations, Jackson Masonry is planning to convert its three coal-fired kilns to natural gas kilns, which are less expensive to operate. The new equipment and conversion will cost \$1.2 million. The company has requested a \$1.2 million loan from BNB and has offered to secure the loan with all fixed assets.

Jackson Masonry has formulated operating projections for 2010. Management projects sales of \$2.5 million which they consider conservative considering the long term trend of sales growth. They believe COGS will fall to \$850,000 with the more efficient kilns. The kilns are expected last over 30 years, but they will be depreciated on a 10 year straight line basis with 0 salvage value.

For the projected income statement, rental expense will remain at \$12,000. Expenses other than COGS and rent are expected to be the same *percentage of sales* for 2010 as they were in 2009, but adjustments are needed for additional interest expense and depreciation. The income tax rate is 30%, and dividends will remain at \$40,000. On the balance sheet, fixed assets will increase by \$1.2 million for the new kilns, no change in other long term assets, all current assets other than cash will increase by 5% over 2009, and accounts payable and the operating line of credit will also increase by 10%. The first payment on the loan would be due in January of 2011.

The company would like the loan set up on a 20 year amortization. If approved, the loan rate would be set at 2% over prime (prime is currently 3.25%) fixed for one year at a time. The loan would be reviewed annually. This would be one of the largest single loans that PNB has made.

Assignment

Using the balance sheet, income statement and cash flow statement from part 1, add the projections to each statement for 2010.

Perform a ratio analysis for the 2010 projections.

Questions to address:

- 1. What are the strengths and weaknesses of this credit request?
- 2. What are the main concerns (if any) that Mr. Berry may have at this point? What is your confidence level with the projections?
- 3. What other issues should be addressed; what questions do you have for Jackson Masonry?
- 4. Based on the analysis, should PNB grant the loan? Justify your position.

Part 3: Line of Credit Increase

Current date: January 2011

Early in 2010, Jackson Masonry began the conversion of its coal-fired kilns to natural gas kilns in order to increase efficiency. To finance these conversions, the company borrowed \$1.2 million from PNB in 2008. The loan is on a 20 year payment plan with an interest rate set a 2% over prime (prime is currently 3.25%) and the rate is reset each year during their annual loan review. Joseph Berry is the loan officer on the account and recently met with company management in order to prepare their annual loan review. During this meeting, the company presented financial statements for 2010.

Billy Jackson is now the company CEO, having taking over from his father last year. He discussed with Mr. Berry the fact that the improved efficiency from the natural gas kilns was not fully recognized in 2010 since the equipment was phased in throughout the year and the process took longer than estimated. He also talked about how brick sales are very sensitive to activity in the building industry, especially new housing starts. Construction was down considerably 2010, and sales decreased as a result. The industry often follows a pattern of boom and bust, with sales and earnings responding to changes in the demand for building products. While the firm is scaling down production, inventory did increase substantially in 2010 (primarily finished bricks in the yard ready to sale). In order to finance the resulting increase in working capital, Jackson Masonry has requested a temporary increase to finance its inventory until their receivables are collected. In the past, Jackson Masonry has been granted similar loans (although in smaller amounts) and has always repaid when the economic circumstances improved.

Mr. Berry discussed projections for 2011 with company management. Management believes that sales will rebound to 2009 levels, while COGS will fall to \$900,000. Expenses other than COGS are expected to be very similar to 2009, while depreciation and interest expense should be about the same as 2010. The income tax rate is 30%, and dividends will remain at \$40,000. On the balance sheet, no fixed asset purchases are planned, and there are no expected changes in other long term assets. Management will attempt to restore all current asset amounts (other than cash) to 2007 levels. The accounts payable estimate for 2011 is \$150,000, and the company plans to reduce the operating line of credit to \$100,000 by year end. They will not replace any production workers who leave, but they remain committed to their long standing policy of not laying off any employees.

Assignment:

Using prior year financial statements already completed, construct updated financials with 2010 actual data and 2011 projections.

Perform a ratio analysis of the company for 2010 actual and 2011 projections. Include comments concerning the trends/comparisons for the ratios, balance sheet, and income statement.

Questions to address:

- 1. What are the strengths and weaknesses of this credit request?
- 2. What are the main concerns (if any) that Mr. Berry may have at this point? How would he convey these to Jackson Masonry?
- 3. What other issues should be addressed; what questions do you have for Jackson Masonry? What would happen if the line of credit increase is not granted?
- 4. Is cash flow a concern for this company?
- 5. Based on the analysis, should FBET grant the loan? Justify your position.

Appendix: Financial Statements

Statements 2009 for Cases 1 and 2

Jackson Masonry

Income Statement

Period Ending	12/31/2007	12/31/2008	12/31/2009
Sales	2,450,000	2,560,000	2,480,000
Cost of Goods Sold	1,183,600	1,259,000	1,028,000
Gross Profit	1,266,400	1,301,000	1,452,000
Operating Expenses			
Officers Compensation	550,000	590,000	630,000
Rent Expense	12,000	12,000	12,000
Bad Debt Expense	6,000	8,000	10,000
Depreciation	185,700	195,400	212,000
Sales and Admin Exp	269,000	278,000	296,000
Operating Income (EBIT)	243,700	217,600	292,000
Interest Expense	15,000	17,500	26,000
Interest Income	2,300	2,800	3,200
Income Before Tax	231,000	202,900	269,200
Income Tax	69,300	60,870	80,760
Net Income	161,700	142,030	188,440
Dividends	40,000	40,000	40,000

Jackson Masonry

Balance Sheet

Period Ending	12/31/2007	12/31/2008	12/31/2009
Current Assets			
Cash and Equivalents	325,000	359,230	238,330
Short Term Investments	326,100	396,100	384,200
Net Receivables	257,200	296,500	412,800
Inventory	578,300	596,800	816,840
Other Current Assets	65,800	56,600	70,000
Total Current Assets	1,552,400	1,705,230	1,922,170
Gross Fixed Assets	7,807,300	7,962,500	8,163,400
Less: Depreciation	3,527,000	3,722,400	3,934,400
Net Property Plant and Equipment	4,280,300	4,240,100	4,229,000
Other Long Term Assets	55,000	77,400	85,000
Total Long Term Assets	4,335,300	4,317,500	4,314,000
Total Assets	5,887,700	6,022,730	6,236,170
Current Liabilities			
Accounts Payable	55,000	62,000	78,000
Current Due of Long Term Debt	0	0	0
Operating Line of Credit	72,000	98,000	147,000
Total Current Liabilities	127,000	160,000	225,000
Long Term Debt	0	0	0
Total Liabilities	127,000	160,000	225,000
Common Stock	100,000	100,000	100,000
Retained Earnings	5,660,700	5,762,730	5,911,170
Total Stockholder Equity	5,760,700	5,862,730	6,011,170
Total Liabilities and Stockholders Equity	5,887,700	6,022,730	6,236,170

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Jackson Masonry

Ratio Analysis

Liquidity		industry average
Current	CA	1.5
	CL	
Quick	cash + securities + AR	1
	CL	
Working Cap	CA - CL	na
Leverage		
Debt to Assets	Total Debt	0.5
	Total Assets	
CL to Equity	CL	0.25
Coverage	Equity	
Debt Service Coverage	income + depr	0.33
Dest Service Coverage	Current mat of LT debt	
TIE	income + interest	6
	interest exp	
Activitiy		
Days AR ratio	AR	50
	Avg sales per day	
Days Inventory	Inv	125
	Avg COGS per day	
Days Payable	AP	40
	Avg purchases per day	
Profitability		
return on sales	net profit before tax	0.25
	sales	
return on assets	net profit before tax	0.1
	assets	
return on equity	net profit before tax	0.15
	equity	

Statements 2010 for Case 3

Jackson Masonry

Income Statement

Period Ending	12/31/2007	12/31/2008	12/31/2009	2010 actual
Sales	2,450,000	2,560,000	2,480,000	2,059,856
Cost of Goods Sold	1,183,600	1,259,000	1,028,000	938,500
Gross Profit	1,266,400	1,301,000	1,452,000	1,121,356
Operating Expenses				
Officers Compensation	550,000	590,000	630,000	630,000
Rent Expense	12,000	12,000	12,000	12,000
Bad Debt Expense	6,000	8,000	10,000	14,500
Depreciation	185,700	195,400	212,000	333,710
Sales and Admin Exp	269,000	278,000	296,000	302,185
Operating Income (EBIT)	243,700	217,600	292,000	-171,039
Interest Expense	15,000	17,500	26,000	133,508
Interest Income	2,300	2,800	3,200	3,354
Income Before Tax	231,000	202,900	269,200	-301,193
Income Tax	69,300	60,870	80,760	0
Net Income	161,700	142,030	188,440	-301,193
Dividends	40,000	40,000	40,000	40,000

Jackson Masonry

Balance Sheet				
Period Ending	12/31/2007	12/31/2008	12/31/2009	2010 actual
Current Assets				
Cash and Equivalents	325,000	359,230	238,330	46,016
Short Term Investments	326,100	396,100	384,200	52,140
Net Receivables	257,200	296,500	412,800	502,841
Inventory	578,300	596,800	816,840	1,145,620
Other Current Assets	65,800	56,600	70,000	73,500
Total Current Assets	1,552,400	1,705,230	1,922,170	1,820,117
Gross Fixed Assets	7,807,300	7,962,500	8,163,400	9,513,200
Less: Depreciation	3,527,000	3,722,400	3,934,400	4,268,110
Net Property Plant and Equipment	4,280,300	4,240,100	4,229,000	5,245,090
Other Long Term Assets	55,000	77,400	85,000	86,540
Total Long Term Assets	4,335,300	4,317,500	4,314,000	5,331,630
Total Assets	5,887,700	6,022,730	6,236,170	7,151,747
Current Liabilities				
Accounts Payable	55,000	62,000	78,000	94,210
Current Due of Long Term Debt	0	0	0	35,343
Operating Line of Credit	72,000	98,000	147,000	187,560
Total Current Liabilities	127,000	160,000	225,000	317,113
Long Term Debt	0	0	0	1,164,657
Total Liabilities	127,000	160,000	225,000	1,481,770
Common Stock	100,000	100,000	100,000	100,000
Retained Earnings	5,660,700	5,762,730	5,911,170	5,569,977
Total Stockholder Equity	5,760,700	5,862,730	6,011,170	5,669,977
Total Liabilities and Stockholders				
Equity	5,887,700	6,022,730	6,236,170	7,151,747