How to Value an Oil & Gas Royalty Interest
A royalty interest in the oil and gas industry is “an interest in an oil and natural gas lease that gives the owner of the interest the right to receive a portion of the production from the leased acreage (or of the proceeds of the sale thereof), but generally does not require the owner to pay any portion of the costs of drilling or operating the wells on the leased acreage.”¹ Often called net revenue interests (NRI), royalty interests do not bear the costs of production and only participate in the potential upside of a resource. The value of a royalty interest, however, is often difficult to observe because it is typically closely held. In addition, once discovered and drilled, the natural resources are physically depleted, resulting in a declining asset as opposed to a growing one. Lastly, there are a myriad of factors (mostly out of a royalty holder’s control) impacting the economics of a royalty interest.

The ownership of every asset or business interest changes hands eventually. It is inevitable. People do not live forever, so investment and familial assets must be passed on in one way or another. Whether someone sells assets outright, a court of law orders it, or they pass down their assets, all transfers of wealth must invariably address the question of value.

Well informed buyers and sellers are critical to an efficient market for royalty interests because there is a specialized and relatively complex body of knowledge to consider in the transfer of these types of assets. A lack of knowledge regarding the worth of a royalty interest could be very costly. This can manifest itself in a number of ways. A shrewd buyer may offer a bid far below the interest’s fair market value; opportunities for successful liquidity may be missed; or estate planning could be incorrectly implemented based on misunderstandings about value. Understanding how royalty interests are properly appraised will ensure that you maximize the value of your royalty, whenever and however you decide to transfer it. The purpose of this whitepaper is to provide an informative overview regarding the valuation of mineral royalty interests within the oil and gas industry.

**When Do You Need to Know What Your Royalty is Worth?**

A royalty owner with the potential to enter any kind of transaction or agreement based on their interest’s value needs to know what it is worth. This includes selling and/or using your royalty interest as collateral for a loan. Additional examples of when you need to know what your royalty is worth are outlined below.

**Liquidating**

In the most obvious case, someone who is planning to sell their royalty interest needs to know what it is worth. There are a variety of reasons to cash out your interest for a lump-sum payment, whether an inflow of cash would help you make ends meet or finance a large purchase; you no longer want to deal with the administrative paperwork or accounting cost of reconciling monthly revenue payments; or you

would prefer to diversify your portfolio or move your investments to a less volatile industry. There is a market for royalty interests, making them somewhat liquid. Most of the time, the difficulty is not finding a buyer, but determining whether the buyer’s offer is appropriate.

Given that many royalty owners have little connection with the oil and gas industry aside from the monthly payments they receive, buyers may bid substantially below a royalty’s fair market value hoping to earn a profit at the expense of an uninformed seller. As such, it is critical that royalty owners looking to liquidate their interest understand its value to ensure that they can negotiate more effectively.

Estate Planning

If you decide to pass down your royalty rights, understanding the value of your interest will be crucial in organizing your estate. Having a legitimate value for your royalty interests will ensure that estate planning is correctly implemented. A credible value will also help you understand what kind of taxes you, or your heirs, will be accountable for and allow you to be prepared when the tax payments come due.

Other Ownership Transfer Scenarios

For years, our professionals have spoken about the “things that happen to you” and the “things you make happen.” As mentioned before, royalty owners generally have little connection to the oil and gas industry and like most people, are consumed with the day-to-day activities of their lives. Many fail to acknowledge that life cycle events do happen to them and their families, and that these events will require that their family wealth, including their royalties, be valued.

Maybe you are not currently contemplating transitioning your royalty interest. You do not plan to sell your royalty interests in the next few years, you are not currently thinking about transferring the rights to your children, nor do you anticipate any of the other events listed in the Ownership Transfer Matrix. Then why do you care? An understanding of the value of all your familial assets, including your royalty interest, is critical in preparing yourself for any of these eventualities.

<table>
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<tr>
<th>THE OWNERSHIP TRANSFER MATRIX</th>
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<td>VOLUNTARY (THINGS YOU MAKE HAPPEN)</td>
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The Basic Concepts That Must Be Defined in Every Valuation

Before covering specific details related to the oil and gas industry and your royalty interest, it is important to understand basic concepts related to all valuation analyses. Our purpose in this section is to provide a general overview of a few fundamental and universal concepts that materially impact any valuation.

The Valuation Date

Every valuation has an “as of” date, which simply means that it is the date around which the analysis is focused. The date may be set by legal requirements related to a death or divorce, or be implicit, such as the closing date of a transaction.

The Purpose of the Valuation

The purpose of the valuation is important because it is linked to the transfer event (such as a sale, estate planning, fair value accounting, bankruptcy, etc.). A valuation prepared for one purpose is not necessarily useful for another.

The Standard of Value

The standard of value is an important legal concept that must be addressed in every valuation assignment. “Fair market value,” most commonly used in tax matters, is the most familiar standard of value. Other important standards of value are “investment value” (purchase and sale transactions), “statutory fair value” (corporate reorganizations), and “intrinsic value” (public securities analysis). Using the proper standard of value is crucial in obtaining an accurate determination of value. The standard of value will influence the selection of valuation methods as well as the level of value.

The Levels (Premise) of Value

Valuation theory suggests that there are various “levels” of value applicable to a business or business ownership interest. The levels of value can be described as:

- **Controlling interest basis** (levels) refers to the value of the enterprise as a whole. The controlling interest level of value is considered to include two components, the **financial control level** and the **strategic control level**.

- **Marketable minority interest basis** (level) refers to the value of a minority interest, lacking control, but enjoying the benefit of liquidity as if it were freely tradable in an active market. The marketable minority level of value is also on an enterprise level of value, meaning that it is developed based on 100% of the expected cash flows of the enterprise.

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• **Nonmarketable minority interest basis** (level) refers to the value of a minority interest, lacking both control and market liquidity.

The relationship between these three levels of value is depicted in the following chart.

Although royalty interest owners do not own an interest in a business, we can consider their interest to be somewhat similar to that of a marketable or nonmarketable minority ownership interest in a business. A minority owner is often relegated to bearing witness to a process over which they have limited control or discretion. In effect, they often play the role of silent partners. They usually do not control the drilling activity of the operator or their royalty interest, and they certainly cannot dictate the strategic direction or management choices of the operator.

Further, royalty interests are not marketable to the same degree as a share in a publicly traded company. Unlike an ownership in a publicly traded company, a royalty interests does not enjoy instantaneous liquidity on a regulated exchange. The unique uncertainties related to the timing and favorability of converting a royalty interest to cash must be considered when determining the value of a royalty interest.
Important Industry Factors

It comes as a surprise to many royalty interest owners that there is not a standardized value for their interest. The value of a royalty interest is derived from expected future revenues generated by leasing and/or production, which are largely determined by oil and gas market prices and the current drilling environment. As such, the value of a royalty interest constantly changes based upon exogenous factors, including a myriad of economic and political variables that affect individual producers and consumers comprising the complex global oil and gas markets.

Consequently, a review of the oil and gas industry is important in establishing a credible value for any royalty interest. In addition, it is critical to understand specifically what exact bundle of rights is being valued. There are a number of different types of mineral interests, each with differing sets of rights, privileges, and restrictions. The three most common types of mineral rights are working interests, royalty interests, and overriding royalty interests. The chart below outlines some typical characteristics of these types of interests that are important to keep in mind when reviewing the effect of industry conditions on a mineral interest.

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<tr>
<th></th>
<th>Control over Drilling Plan</th>
<th>Owns Net Mineral Acres</th>
<th>Owns a % of Oil &amp; Gas Revenue</th>
<th>Finite Term</th>
<th>LIABLE for Ongoing Costs</th>
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<tr>
<td>Working Interest</td>
<td>X</td>
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<td>Royalty Interest</td>
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<td>Overriding Royalty</td>
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A review of the oil and gas industry should consider a wide range of issues (far too many to list in full here), with primary considerations as outlined below.

• **Price Volatility.** The oil and gas industry is characterized by high price volatility. Oil and gas prices are determined by the market and are bound by the basic laws of supply and demand. The size and global nature of this market mean that these prices are influenced by countless economic – and sometimes political – factors affecting individual producers, consumers, and other entities that comprise the global market. The price of oil and gas is influenced by endless variables in the industry, making it volatile.
• **Technology.** Technology in the oil and gas industry changes rapidly and has the potential to materially impact the market. Adoption of innovative drilling techniques, such as horizontal drilling and hydraulic fracturing, has made oil and gas production quicker, easier, and relatively cheaper. By decreasing production costs, technology has allowed producers to increase their margins in times of high-pricing and to keep drilling sites open in low-price environments. Developments in technology have also allowed producers to reach oil and gas that was previously regarded as unattainable, particularly in various shale plays.

• **Regulation.** The oil and gas industry is heavily regulated by various entities, including the Environmental Protection Agency (EPA), the Federal Energy Regulatory Commissions (FERC), the Bureau of Land Management (BLM), and the Department of the Interior (DOI). Regulations on operations have a substantial impact on the oil and gas industry. Legislation aimed at decreasing producer pollution can be financially burdensome to comply with while regulations on drilling techniques can make the production process more costly. It is important to note that the regulatory environment is constantly changing and that it varies across regions and countries.

• **Variation by Oil and Gas Play.** Drilling economics vary by region. There are geological differences between oilfields and reserves that make it harder to drill in some places than others. Whereas some wells can be drilled using traditional, conventional techniques like vertical drilling, less permeable shale wells must be drilled using unconventional methods, like horizontal drilling or hydraulic fracturing. These unconventional methods tend to bear higher operating costs. Location also tends to influence drilling and transportation costs, ultimately making break-even prices and profits vary across and within regions. Accordingly, the value of any royalty interest is strongly influenced by its location, and it is important to consider geological differences when valuing any mineral interest.

**Treasury Regulations Section 1.611**

Treasury Regulation Section 1.611-1(d)(2) also provides guidance in determining the fair market value of oil and gas properties. It provides that “the fair market value of an [oil and gas] property is the amount which would induce a willing seller to sell and a willing buyer to purchase.” Additionally, Section 1.611-2(g) outlines some considerations that a valuation of mineral properties must include for tax oriented appraisals. A summary of these considerations is shown in the chart on the next page.

What does all this have to do with your asset? A lack of basic knowledge of these concepts can leave you short of the required vocabulary and understanding needed to comprehend the context with which the value of your royalty interest is developed.
## Summary of Treasury Regs 1.611-2(g)

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<th>Considerations for an Oil and Gas Valuation</th>
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<td>History of the property</td>
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<td>Date of initial acquisition and cost basis</td>
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<td>Cost of mineral improvements</td>
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<td>Valuation date</td>
<td>Allocation of value and/or cost to the mineral property and property improvements</td>
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<td>Depletion/depreciation expense details</td>
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<td>Break down of reserves by classification (PDP, PDNP, PUDs)</td>
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<td>Reserve characteristics</td>
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<td>Operating conditions</td>
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<td>Details regarding previous transactions</td>
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<tr>
<td>Interest characteristics</td>
<td>Type of interest (royalty, overriding royalty, working interest)</td>
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<td></td>
<td>Percent/fraction of interest owned</td>
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<tr>
<td>Well descriptions</td>
<td>Number of wells, date of completions, and/or abandonment</td>
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<td>Annual production per well per day</td>
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## Other Necessary Items

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<th>Description</th>
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<tr>
<td>Sales history</td>
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<tr>
<td>Historical oil and gas prices</td>
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<td>Future NYMEX pricing</td>
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</table>
Financial Considerations

One of the most important things to consider when valuing a royalty interest is the availability of minerals and the ability of the operating E&P company to bring the minerals to the surface. This depends on both the well economics and the operator’s financial condition.

Well Economics

Because a royalty interest is paid out as a percent of revenue and revenue depends on production volume, well economics has a substantial impact on value. Well economics refer to the production rates, decline curve and costs of a well, which can be captured by decline curves. Well production rates change over time as wells age and as technology changes. Each well has a unique decline curve, which illustrates the rate at which production is decreasing. It is important to remember that oil and gas is a depleting asset. Thus, each year after a well is drilled, production will decline. A variety of factors can affect the shape of a well’s decline curve; for example, decline curves are generally much steeper if the well is drilled using unconventional techniques, like horizontal drilling, or hydraulic fracturing. Additionally well spacing can affect productivity of a well. Traditionally, wells were thought to need 40-120 acre spacing for vertical wells, and it was thought that more wells implied more recovery. Oftentimes, however, when more wells are drilled, well spacing is decreased, and operators see a decrease in production rates. Horizontal wells generally need 640 to 1,280 acre spacing, and typically, more than one lateral well is drilled from each vertical well. It is important to keep in mind that there are a variety of factors that can affect well productivity and the rights of mineral owners are generally limited to a portion of the revenue and nothing else.

Further, horizontal drilling has complicated the way royalty revenue is distributed. It is relatively easy to determine who owns the rights to the minerals drilled by a vertical well because a well is drilled straight down from the surface. However, since horizontal wells cover significantly more acreage, one well may be drilled through multiple revenue owners’ acreage (it is much more difficult to determine who owns the mineral rights). The revenue sharing arrangement for these types of wells is known as “pooling”.

Financial & Strategic Condition of Operator

A financial analyst has certain diagnostic markers that tell much about the condition of a business. As previously mentioned, a royalty interest owner receives a payment as long as production occurs. However, if production stops, so do royalty payments. During the oil bust in mid-2014, many operators were forced to cease operations as low market prices made it uneconomical to continue operating their wells – this left many royalty owners without their monthly revenue checks. Thus, it is important to consider whether or not your operating company has the financial capability to meet short-term obligations to continue daily operations and operate efficiently to keep production costs low.

Working Capital

Analyzing your operator’s working capital (current assets minus current liabilities) gives insight into their current liquidity. If your operating company has high working capital as a percentage of sales, this
suggests that the company should be capable of continuing daily operations. If the inverse is true, and your company’s working capital is significantly lower than the industry median, your operating company could be at risk of suspending operations. As such, it is important to understand how your operator’s working capital fits in with the industry’s standard when determining the value of your royalty interest.

**Leverage**

It is also important to consider your operator’s current leverage. Leverage refers to the amount of debt used to finance operations. Leverage magnifies both returns and losses, consequently, increasing a company’s financial risk. During the mid-2014 commodity price downturn highly leveraged companies were hit particularly hard. Some had to take out debt to pay interest on already outstanding debt while others were forced into bankruptcy either to restructure or completely shut down. A debt to worth ratio is a good indicator of leverage, calculated by dividing total liabilities by tangible net worth. It is important to consider how leveraged your operator is when valuing your royalty interest, and to understand how their leverage compares to similar E&P companies.

**Interest Coverage Ratios**

Interest coverage ratios are another useful metric that indicates a company’s liquidity and leverage. The interest coverage ratio (EBIT/interest expense) indicates a company’s ability to pay its debt and continue operations.

**Capital Budgeting and Drilling Plans**

Because reserves are depleting assets, it is critical to understand how E&P companies are approaching their capital budgeting and drilling plans. In order to maintain current rates of production, operators must drill new wells or improve production of existing wells. Many operators have an inventory of drilled, uncompleted wells (DUCs), which are wells they began drilling but ran out of funding to complete. While DUCs are less costly to bring online than PUDs, both require substantial capital expenditures. When looking at your operator’s financials, it is important to understand their CAPEX plans in the near term, because this can impact the value of potential future well production.

**Break-even Analysis**

Another way to understand an operator’s financial well-being is through a break-even analysis. A break-even analysis can be used to compare how much it costs to produce one barrel of oil to the revenue generated per barrel. This can reveal whether a company is losing money throughout the production process and determine at what market price per unit your company would begin to earn (or lose) money.

It is helpful to understand your operator’s financials in relation to other E&P companies that focus in the same plays. If your operator’s financials deviate strongly from their peers it is important to consider the affect this may have on the value of your royalty interest.
Post Production Deductions

Although royalty owners do not bear costs of production, they still must pay taxes and some even pay their portion of gathering, transportation, and treating costs. Depending on the lease agreement some operators are allowed to deduct post production costs from the royalty owners’ portion of revenue. Post production deductions can significantly lower the value of a royalty interest. Thus it is important to analyze the details of a royalty owner’s lease agreement when determining value.

What Does the Valuation Process Entail?

Without offering a full dissertation on valuation, you need to understand that there are three commonly accepted approaches to determining value: asset-based, market, and income. Approaches refer to the basis upon which value is measured.

In the realm of business valuation, each approach incorporates procedures that may enhance awareness about specific economic attributes that may be relevant to determining the final value. Ultimately, the concluded valuation will reflect consideration of one or more of these approaches (and perhaps several underlying methods) as being most indicative of value for the subject interest under consideration. However, due to fundamental structural differences between businesses and assets, when valuing royalty interests the available valuation methodologies tend to be utilized differently.3

The Asset-Based Approach

The asset-based approach can be applied in different ways, but the general idea is that the enterprise value of a business is given by subtracting the market value of liabilities from the market value of assets. While the asset-based approach can be useful when valuing companies operating within the oil and gas industry, this approach is not typically employed to determine the value of a royalty interest. Oftentimes, a royalty owner purchased land which included the mineral rights and an allocation of surface versus mineral rights was not performed. Additionally, considerable time may have passed between the time the surface and mineral rights were purchased and the valuation date. Adding to the ambiguity of the cost basis of the asset, royalty interests are often family assets that are handed down for generations. For this reason, the asset-approach is rarely used to determine the market value of royalty interests unless the mineral rights were purchased recently.

The Market Approach

The market approach utilizes transaction pricing from guideline transaction data or valuation multiples from a group of publicly held companies to determine the value of a privately held enterprise or asset.

3 Treasury Regulations 1.611-2(d) asserts that the income approach will not be used if the value of a mineral property can be determined using the cost-approach (under the asset approach) or the market approach. However, those circumstances are rare and not consistent with industry norms. The income approach is most often employed to estimate the fair market value of mineral properties.
To develop an indication of royalty interest value using the market approach, you can utilize data from market transactions of mineral interests in similar plays. This data can be derived from direct transactions of royalty interests or from publicly traded royalty trusts and partnerships.

Direct comparable transactions of royalty interests are often the best indication of fair market value. However, the data with which to benchmark a subject royalty interest against is often unavailable. If it is available, a careful comparative analysis must be made. Royalty trusts and partnerships hold various royalty interests in wells operated by large exploration and production companies. Royalty trusts and partnerships tend to have very low, if any, operating expenses and can be an investment to provide exposure to oil and gas prices. Acquisition data from these trusts can be utilized to calculate valuation multiples on the subject royalty’s performance measure(s). This will often provide a meaningful indication of value as it takes into account industry factors (or at least the market participants’ perception of these factors) far more directly than the asset-based approach or income-based approach.

Traditional oil and gas earnings multiples such as EV/EBITDAX should not be used to calculate indication of values because royalty trusts do not have high operating cost and operational earnings margins are not a necessarily meaningful indication of performance for a royalty owner. Rather, a royalty trusts performance can be better understood by their distribution yield and potential for future revenue streams from new wells not yet drilled.

In many ways, this approach goes straight to the heart of value: mineral rights are worth what someone is willing to pay for them. However, the market-based approach is not a perfect method by any means, for businesses or for mineral rights. Royalty trust transaction data may not provide for a direct consideration of specific mineral right characteristics; it is imperative that the value conclusion be adjusted for differences in value level and in well economics, potential future drilling locations, among other factors. In any valuation, the more comparable the transactions are, the more meaningful the indication of value will be.

The Income Approach

The income approach can be applied in several different ways. Generally, such an approach is applied through the development of an ongoing earnings or cash flow figure and the application of a multiple to those earnings based on market returns. For royalty interests, however, we oftentimes perform a discounted cash flow analysis. This approach allows for the consideration of characteristics specific to the subject royalty interest, such as its well economics making it the most commonly used approach for royalty interest valuations.

To perform a royalty’s DCF analysis, production levels must be projected over the well’s useful life. Given that well production decreases at a decreasing rate, these projections can be calculated through deriving a decline rate from historical production. Revenue is a function of both production and price; as such, after developing a legitimate prediction of production volumes, analysts must predict future price
values. The stream of income (revenue less taxes and deductions) is then discounted back to present value using a discount rate that accounts for risk in the industry.

Because revenue cash flows are the main driver of mineral royalty values, the income approach is the most reasonable and supportable valuation approach when determining the value of a mineral royalty interest.

Synthesis of Valuation Approaches

A proper valuation of a mineral royalty interest will factor, to varying degrees, the indications of value developed utilizing the market-based and income-based approaches outlined above. A valuation, however, is much more than the calculations that result in the final answer. It is the underlying analysis of the mineral royalty and its unique characteristics that provide relevance and credibility to these calculations. This is why industry “rules-of-thumb” are dangerous to rely on in any meaningful transaction. Such “rules-of-thumb” fail to consider the specific characteristics of an interest and, as such, often fail to deliver insightful indications of value. A mineral royalty owner executing or planning a transition of ownership can enhance confidence in the decisions being made only through reliance on a complete and accurate valuation of the interest.

Conclusion

Mercer Capital has extensive experience valuing mineral royalty interests in the oil and gas industry. Despite attempts to homogenize value through the use of simplistic rules of thumb, our experience is that each valuation is truly unique given the purpose for the valuation and the circumstances of the interest. We hope this information, which admittedly only scratches the surface, helps you better shop for royalty valuation services and understand valuation mechanics.

We encourage you to extend your wealth planning dialogue to include valuation of any mineral interests, because sooner or later, a valuation is going to happen. Proactive planning and valuation services can alleviate the potential for a negative surprise that could complicate an already stressful time in your personal life.

For more information or to discuss a valuation or transaction issue in confidence, do not hesitate to contact us at 800.769.0967.
Mercer Capital provides business valuation and financial advisory services to royalty owners in the oil and gas industry.

Mercer Capital is a national business valuation and financial advisory firm. Offering a broad range of services, we have provided thousands of valuations, which are well-reasoned and thoroughly documented.

We understand the unique position of royalty owners as well as the broader energy industry. Whether in reaction to an event or for strategic planning purposes, Mercer Capital can help capture the value of your mineral rights.

**Services Provided**

- Valuation of oil and gas companies
- Transaction advisory for acquisitions and divestitures
- Valuations for purchase accounting and impairment testing
- Fairness and solvency opinions
- Litigation support for economic damages and valuation and shareholder disputes

Contact a Mercer Capital professional to discuss your needs in confidence.

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