



CURRENT UPDATE ON OIL & GAS VALUATION FOR ESTATE & GIFT TAX PURPOSES

FULL VERSION

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Presented by:
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He was Chair of the NACVA Litigation Forensics Board and the Standards Committee for a number of years. He was also the past Chair of the Texas Society of Certified Public Accountants Litigation Member Services Section. He was also a member of the American Institute of Certified Public Accountants (AICPA) Litigation Support & Dispute Resolution Sub Committee, as well as the AICPA National Litigation Conference Committee and the AICPA Business Valuation Committee.

He has participated in the writing of both the NACVA and AICPA Business Valuation Standards.

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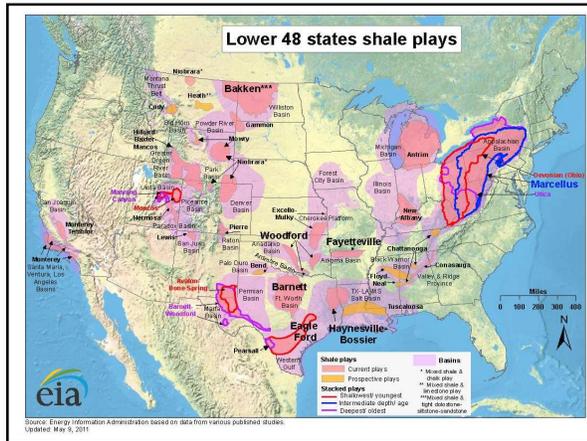
BIOGRAPHICAL INFORMATION (Cont.)
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The firm offers the following oil & gas services:

- Mineral and Royalty interest valuation.
- Second opinions on the fair market value of lease offers.
- Litigation - Services.
- Economic Damages.
- Property Tax Protests.
- Estate Planning.
- Computation of Cost Depletion for Tax Purposes.
- Due Diligence, Investment and Merger & Acquisition.
- Petroleum Forensic Document Research.
- Appraisal District Challenge
- Cost Basis Determination For Heirs





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Manual for Discounting Oil and Gas Income
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INDUSTRY REFRESHER
Sources: Valuing The Potential Of Land For Oil & Gas Development
By: David Ammons and James Sheppard

Introduction

Investment decisions in the oil and gas industry are made in a unique environment that is characterized by the following:

- The industry is very cash intensive. The expenditure of millions and sometimes billions of dollars is required for a single project, with no guarantees of success.
- There is frequently a long lead time between initial expenditure and resulting revenue and profitability.
- Decisions are often made in an environment of high levels of uncertainty and—consequently—risk. Common uncertainties include: do hydrocarbons exist beneath the target prospect? Will drilling lead to a blow-out? If we find oil or natural gas reserves will they be smaller than expected or decline faster than geologic conditions suggest? Will crude oil and/or natural gas prices remain strong or nose-dive? Will the applicable regulatory environment change?
- The competition for funds for alternative projects can be substantial.

Given this unique environment, it is critical for oil and gas companies to effectively, efficiently, and accurately evaluate projects before investing substantial sums. Companies employ somewhat different evaluation methods for projects located on land with existing hydrocarbon production than they do for projects located on land with no prior production or exploration. The relevant evaluation methods are discussed in detail in this paper.

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INDUSTRY REFRESHER

1. Categories of Reserves

In general, reserves can be broken down into the following categories: (1) Proved Reserves; (2) Probable Reserves; and (3) Possible Reserves. Moreover, reserves can be classified as either "Developed" or "Undeveloped." Risk is the main differentiating factor between the types of reserve categories and their associated values. Since the value of an asset is a function of its projected future cash flow, the lower the chance of occurrence (actual production), the less valuable the mineral interest.

A. Developed or Undeveloped Reserves

Developed reserves are expected to be recovered from existing wells based upon whether the wells are "producing" or not. Undeveloped reserves are expected to be recovered: (1) from new wells on undrilled acreage; (2) from the deepening of existing wells to a different reservoir; or (3) where a relatively large capital expenditure is required to modify an existing well or to install production or transportation facilities for primary or improved recovery projects.

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INDUSTRY REFRESHER

B. Proved, Probable, or Possible Reserves

Proved reserves are those reserves that geological and engineering data indicate with reasonable certainty are recoverable today, or in the near future, with current technology and under current economic conditions. According to the EIA, which provides statistics for the Department of Energy, the term "reasonable certainty" implies that there is a 90% probability that a company will recover at least the proved reserves estimated to be recoverable.

Probable and possible reserves are further removed from having been tested by the drill bit, and thus, are subject to increasing margins of error. Probable and possible reserves are often referred to as P50 and P10, with probable reserves using a longer-term price assumption and more advanced technology to estimate underground stores.

Probable reserves are "unproved," yet geological and engineering data suggests that they are more likely than not to be recoverable. For example, a "probable" reserve could be proved by normal step-out drilling and infill drilling where data is inadequate to classify them as proved.

Possible reserves are those "unproved" reserves that analysis of geological and engineering data suggests are less likely to be recoverable than probable reserves. For example, possible reserves would lack any adequate definitive data and be referred to as "exploratory."

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DETERMINATION OF FAIR MARKET VALUE OF MINERAL PROPERTIES

What is the Value of the Interest?

IRS Regulation §1.611-2 provides guidance in determining the fair market value of interests in oil, gas, and other natural deposits. The Regulation provides that the comparative value method should be used to determine the fair market value of an oil and gas interest, if at all possible. The use of other methods, such as the "discount cash flow method" should only be used when the comparative method cannot be used.

Comparative Value Method

The "comparative value method" values the interests of similar properties that have been transferred or sold recently. According to Regulation §1.611-2, the due weight and consideration will be given to factors such as:

- cost
- actual sales and transfer of similar properties and improvements
- bona fide offers
- market value of stock or shares
- royalties and rentals
- valuation for local or State taxation
- accounting records of litigation in which the property and improvements may have been inventoried or appraised in probate or similar proceedings
- disinterested appraisals by approved methods

DETERMINATION OF FAIR MARKET VALUE OF MINERAL PROPERTIES

Often, this type of data is not available. In this case, other methods, such as the present value method, may be used.

Discounted Cash Flow

This method may be used when the value cannot be determined upon the basis of cost or comparative values, or any other method. Factors considered when using the method are: the future price of produced goods and the estimated total future production from the property; the average quality or grade of the mineral reserves; a present value discount and the risks associated with the property (costs of shutting down, dry holes, decrease in production, etc.).

Some have used other, simpler valuation methods, such as a multiple of production over a specified time period. This is not a thorough indicator of fair market value of an interest and may not withstand IRS scrutiny.

IRS Regulations



26 CFR 1.611-2 - Rules applicable to mines, oil and gas wells, and other natural deposits.

§ 1.611-2 Rules applicable to mines, oil and gas wells, and other natural deposits.

(a) Computation of cost depletion of mines, oil and gas wells, and other natural deposits.



10110001 26 CFR 1.191-2. Area available to lease, oil and gas wells, and other mineral deposits. (2) See 1.191-1(a) for information relating to the basis upon which cost depletion is to be allowed in respect of any mineral property in the basis provided for in section 1912 and the regulations thereunder. After the amount of such basis applicable to the mineral property has been determined for the taxable year, the cost depletion for that year shall be computed by dividing such amount by the number of units of mineral remaining as of the taxable year (see subparagraph (3) of this paragraph), and by multiplying the depletion unit so determined by the number of units of mineral sold within the taxable year (see subparagraph (2) of this paragraph). In the selection of a unit of mineral for depletion, preference shall be given to the principal or customary unit or units paid for in the products sold, such as tons of ore, barrels of oil, or thousands of cubic feet of natural gas.

(2) As used in this paragraph, the phrase **number of units sold within the taxable year**:

(i) In the case of a taxpayer reporting income on the cost-of-sales and disbursements method, includes units for which property was received within the taxable year although produced or sold prior to the taxable year, and excludes units sold but not paid for in the taxable year; and

(ii) In the case of a taxpayer reporting income on the accrual method, shall be determined from the taxpayer's records kept in physical quantities and is a measure consistent with his method of inventory accounting under section 471 or 472.

The phrase does not include units with respect to which depletion deductions were allowed or allowable prior to the taxable year.

(3) The number of units of mineral remaining as of the taxable year is the number of units of mineral remaining at the end of the year to be recovered from the property (producing units recovered but not sold) plus the number of units sold within the taxable year as defined in this section.

(4) In the case of a natural gas well where the annual production is not metered and is not capable of being estimated with reasonable accuracy, the taxpayer may compute the cost depletion allowance in respect of such property for the taxable year by multiplying the adjusted basis of the property by a fraction, the numerator of which is equal to the decline in rock pressure during the taxable year and the denominator of which is equal to the expected total decline in rock pressure from the beginning of the taxable year to the economic limit of production. Taxpayers computing depletion by this method must keep accurate records of periodical pressure determinations.

(5) If an aggregation of two or more separate mineral properties is made during a taxable year under section 1714, cost depletion for each such property shall be computed separately for that portion of the taxable year ending immediately before the effective date of the aggregation. Cost depletion with respect to the aggregated property shall be computed for that portion of the taxable year beginning on such effective date. The allowance for cost depletion for the taxable year shall be the sum of such cost depletion computations. For purposes of this paragraph, each such portion of the taxable year shall be considered as a taxable year. Similar rules shall be applied where a separate mineral property is properly removed from an existing aggregation during a taxable year. See section 1714 and the regulations thereunder for rules relating to the effective date of an aggregation of mineral interests and for rules relating to the adjusted basis of an aggregation.

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10110002 26 CFR 1.191-3. Area available to lease, oil and gas wells, and other mineral deposits. (2) See 1.191-1(a) for information relating to the determination of the depletion among the several categories of economic interests in the mineral deposit or deposits to be made as provided in paragraph (c) of § 1.811-1.

(b) Depletion accounts of mineral property.

(1) Every taxpayer claiming and making a deduction for depletion of mineral property shall keep a separate account in which shall be accurately recorded the cost or other basis provided by section 1012, of each property together with subsequent allowable credit additions to such account and all the other adjustments required by section 1016.

(2) Mineral property accounts shall however be credited annually with the property of the depletion computed in accordance with section 611 or 613 and the regulations thereunder, or the amount of the depletion computed in such section or regulations, whichever is more accurate. No further deductions for cost depletion shall be allowed when the sum of the credits for depletion equals the cost or other basis of the property, plus allowable depletion deductions. However, depletion deductions may be allowable when computed upon a percentage of gross income from the property. See section 613 and the regulations thereunder. In no event shall percentage depletion in excess of cost or other basis of the property be credited to the improvements account or the depletion reserve account.

(c) Determination of mineral contents of deposits.

(1) If it is necessary to estimate or determine with respect to any mineral deposit as of any specific date the total recoverable units there, pounds, ounces, barrels, thousands of cubic feet, or other measure of mineral products reasonably known, or on good evidence believed to have existed in place as of that date, the estimate or determination must be made according to the method current in the industry and in the light of the most accurate and reliable information obtainable. In the selection of a unit of estimate, preference shall be given to the principal unit or units paid for in the product marketed. The estimate of the recoverable units of the mineral products in the deposit for the purposes of valuation and depletion shall include as to both quantity and grade:

(i) The area and strata which might be blocked out, developed, or assumed, in the usual or conventional meaning of these terms with respect to the type of the deposits; and

(ii) Probable prospective areas or strata in the developing deposit, that is, one or more strata that are believed to exist on the basis of good evidence although not actually known to exist on the basis of existing development. Such probable or prospective area or strata may be estimated:

(A) As to quantity, only in case they are indications of known deposits or are new bodies or masses whose existence is indicated by geological surveys or other evidence to a high degree of probability; and

(B) As to grade, only in accordance with the best indications available as to richness.

(2) If the number of recoverable units of mineral in the deposit has been previously estimated for the prior year or years, and if there has been no known change in the facts upon which the prior estimate was based, the number of recoverable units of mineral in the deposit as of the taxable year will be the number remaining from the prior estimate. However, for any taxable year for which it is ascertained either by the taxpayer or the

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10110003 26 CFR 1.191-4. Area available to lease, oil and gas wells, and other mineral deposits. (2) See 1.191-1(a) for information relating to the determination of the depletion among the several categories of economic interests in the mineral deposit or deposits to be made as provided in paragraph (c) of § 1.811-1.

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(2) Mineral property accounts shall however be credited annually with the property of the depletion computed in accordance with section 611 or 613 and the regulations thereunder, or the amount of the depletion computed in such section or regulations, whichever is more accurate. No further deductions for cost depletion shall be allowed when the sum of the credits for depletion equals the cost or other basis of the property, plus allowable depletion deductions. However, depletion deductions may be allowable when computed upon a percentage of gross income from the property. See section 613 and the regulations thereunder. In no event shall percentage depletion in excess of cost or other basis of the property be credited to the improvements account or the depletion reserve account.

(c) Determination of fair market value of mineral properties, and improvements, if any.

(1) If the fair market value of the mineral property and improvements at a specified date is to be determined for the purpose of ascertaining the basis, such value must be determined, subject to approval or review by the district director, by the owner of such property and improvements in the light of the conditions and circumstances known at that date, regardless of later discoveries or developments or subsequent improvements in methods of extraction and treatment of the mineral product. The district director will give due weight and consideration to any and all factors and evidence bearing on the market value, such as spot, actual sales and tenders of similar properties and improvements, bona fide offers, market value of stock or shares, royalties and rentals, valuation for local or State taxation, partnership arrangements, records of litigation in which the value of the property and improvements was in question, the amount at which the property and improvements have been inventoried or appraised in probate or similar proceedings, and discounted appraisals by approved methods.

(2) If the fair market value must be ascertained as of a certain date, analytical appraisal methods of valuation, such as the present value method will not be used.

(3) If the value of a mineral property and improvements, if any, can be determined upon the basis of spot or comparative sales and replacement value of equipment, or

(4) If the fair market value can reasonably be determined by any other method.

(d) Determination of the fair market value of mineral property by the present value method.

(1) To determine the fair market value of a mineral property and improvements by the present value method, the essential factors must be determined for each mineral deposit. The essential factors in determining the fair market value of mineral deposits are:

(i) The total quantity of mineral in terms of the principal or customary unit (or units) paid for in the product marketed;

(ii) The quantity of mineral expected to be recovered during each operating period;

(iii) The average quality or grade of the mineral reserves;

(iv) The allocation of the total expected profit to the several processes or operations necessary for the preparation of the mineral for market;

(v) The probable operating life of the deposit in years;

(vi) The development cost.

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What's New From The IRS Regarding Valuation

This was issued in response to valuation of non cash property for donation purposes.

Definition of Appraisal - Adequate Disclosure Regs

"Appraisal" (as defined by the Internal Revenue Service in Notice 2006-96), means a written valuation report, signed and dated by a qualified appraiser in accordance with generally accepted appraisal standards and containing the following information:

- Includes certain information, such as a property description, Fair Market Value of an ownership interest, appraiser identification information, date of valuation and valuation methods employed; and
- Relates to an appraisal made not earlier than 60 days before the date of contribution of the appraised property; and
- Does not involve a contingent appraisal fee; and
- Meets the other relevant requirements of Regulations Section 1.170A-13(c)(3); and
- Notice 2006-96, 2006-46 I.R.B. 902.

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Definition of Appraiser

"Appraiser" (as defined by the Internal Revenue Service in Notice 2006-96), means a person or firm qualified to perform business "Appraisals" of partnerships and ownership interests in partnerships and has been certified with an appraisal designation from a recognized professional appraisal organization (such as the National Association of Certified Valuers and Analysts (NACVA), the Appraisal Institute, ASFMRA, NAIFA, ASA, etc.), or has met certain minimum education and experience requirements; and

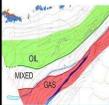
- Regularly prepares appraisals for which the individual is paid; and
- Demonstrates verifiable education and experience in valuing the type of property being appraised; and
- Has not been prohibited from practicing before the IRS under Section 330(c) of Title 31 of the United States Code at any time during the three-year period ending on the date of the appraisal; and
- Is not an excluded individual (someone who is the donor or recipient of the property).

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Adequate Disclosure Items Related to the Valuation Report

- The date of the appraisal.
- The date of the transfer.
- The purpose of the appraisal.
- A description of the property.
- A description of the appraisal process employed, including the valuation method(s) utilized.
- A description of any hypothetical conditions considered.
- The information considered in determining the value, including all financial information in sufficient detail to allow the reader to replicate the appraisal analysis and valuation.
- The appraisal procedures followed, and the reason that support the analysis, opinions, and conclusions.
- The valuation method utilized, the rationale for the procedure used in determining the fair market value of the asset transferred.
- The specific basis for the valuation, such as specific comparable sales or transactions, sales of similar interests, asset-based approaches, merger-acquisition transactions, etc.
- Descriptions of any restrictions or other limiting conditions present.
- Certifications and representations of the Analyst.

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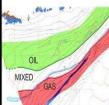



4.48.4.2.3 (07-01-2006)
Analyzing

1. In developing a valuation conclusion, valuers should analyze the relevant information necessary to accomplish the assignment including:

- The nature of the business and the history of the enterprise from its inception
- The economic outlook in general and the condition and outlook of the specific industry in particular
- The book value of the stock or interest and the financial condition of the business
- The earning capacity of the company
- The dividend-paying capacity
- Existence or non existence of goodwill or other intangible value
- Sales of the stock or interest and the size of the block of stock to be valued
- The market price of stocks or interests of corporations or entities engaged in the same or a similar line of business having their stocks or interests actively traded in a free and open market, either on an exchange or over-the-counter
- Other relevant information

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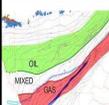



IRS Oversight of Valuation Services

With the enactment of Sec. 6695A, in 2006 the IRS was given new responsibilities to ensure the quality of appraisals and appraisers who provided information in support of a taxpayer's federal tax filings.

The original purpose of Sec. 6695A was to stop perceived abuse in real estate easement appraisals for charitable deductions. It was later explicitly extended to include business appraisals for estate and gift tax purposes.

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IRS Appraisal Review Process

The Sec. 6695A appraisal review process was developed after open forum discussions in 2010 with representatives from appraisal organizations, including representatives of the AICPA.

Under the Sec. 6695A review process, all estate and gift valuations are sent to one of two central locations where estate and gift tax attorneys and IRS engineer specialists perform an initial national classification process. Both tax returns with and without attached appraisals may be referred to estate and gift tax attorney groups at local IRS offices for further classification. After classification of the case at the local level, an estate and gift tax attorney may open the return for an examination. After the return and any valuation on the return have been analyzed, the IRS may impose a Sec. 6695A penalty.

An appraisal examination can also be initiated by an IRS revenue agent. While the revenue agent's primary focus will be the taxpayer and a potential tax deficiency, rather than the appraiser, the revenue agent may decide to initiate a Sec. 6695A process. At this point, the process also should involve an IRS engineer.

If the IRS engineer believes that the "correct value" of the interest being appraised differs from the appraised value and that the appraiser has not complied with his or her organization's standards, the review process may proceed and may ultimately lead to appraisal penalties under Sec. 6695A and a possible referral to the OPR, which is charged with ensuring that practitioners adhere to professional standards and follow the law.

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There are three common methods for converting a reserve report to FMV:

1. Perhaps the most accurate, but admittedly anecdotal, approach is to interview or survey investment bankers or property brokers in the oil and gas acquisition and divestiture (A&D) market regarding discount rates in effect at the valuation date. Discount rates are dependent on reserve category, location product type (oil versus gas) and size of transaction. For example, an A&D firm might show statistics indicating that oil weighted Permian Basin PDP properties were transacting at PV-7 near the valuation date.
2. Another approach involves using data contained in an annual survey (the SPEE survey) conducted by the Society of Petroleum Evaluation Engineers. The SPEE survey polls about 100 experienced PEs and other experts who work in the context of A&D transactions. The section of the survey most commonly cited deals with risk adjustment factors (RAFs) used for acquisitions. The RAF isn't a discount rate in the traditional sense, as used in the first method, but rather a "haircut" factor. While this methodology is simple, and the valuation conclusion is clear (and presumably defensible), it can be overused as a onsize-fits-all solution. For example, I interviewed an active property buyer in the Gulf of Mexico recently and found that use of the SPEE RAFs, without any further adjustment, would have significantly overvalued the offshore properties.

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There are three common methods for converting a reserve report to FMV:

3. Another source for the build up of the discount rate is the cost of capital for publicly traded guideline companies. The reserve base of the guideline public companies should be sufficiently comparable to the subject properties, particularly the ratios of PDP and PUD reserves to total reserves. This approach requires a number of adjustments to reflect the public companies' general and administrative cost structure, growth profile and marketability, which aren't characteristics of the subject static oil and gas reserve base.

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The Methods of Determining Fair Market Value.

There are four basic methods of determining FMV of an oil and gas property: (1) comparative sales; (2) rule of thumb; (3) income forecast, and (4) replacement cost. The SPEE 2001 Survey inquired, for the first time, as to the respondents' preferred method for determining value of oil and gas properties. In the response, the Discounted Cash Flow method (which is a subset of the income forecast as described by Garb) was the overwhelming favorite, at 86%. Comparable sales was preferred by 1%, and no other got more than 5% preference.

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Rules of Thumb

The various rule of thumb methods have merit but do not consider the length of time during which revenue will flow from the investment.

The four most familiar rule of thumb methods are: (1) price paid per barrel equivalent of reserves; (2) price paid per equivalent barrel per day of producing rate; (3) profit to investment ratio; and (4) current income rate for a specific period of time. These methods do not require sophisticated reserve studies and are easy to calculate. However, they do not measure the maximum negative cash position that the purchaser will experience. Also, these tests do not consider market uncertainties, nor time (and thus favor long lived properties).

Other Thoughts

- Minerals not producing... therefore minerals have no value?
- 2-3x annualized cash flow (not 4x or 5x)
 - Typically, used for producing properties and often used for IRS purposes.
 - Mineral packages that are producing, diversified and have shallow decline rates (favorable reserve replacement ratios) or upside potential can sell at 10x historical cash flow, or a future of 3 - 6.5 or 1.5 to 3.0 times the lease bonus.
- Cost approach is never applicable
- Non-producing minerals (this rule of thumb presumably applies to both leased and unleased minerals) valued at the going lease bonus rate x 2 to 3 of adjacent properties as of valuation date.



Comparative Value Method

The "comparative value method" values the interests of similar properties that have been transferred or recently sold. According to Regulation §1.611-2, due weight and consideration will be given to factors such as:

Cost
 Actual sales and transfer of similar properties and improvements
 Bona fide offers
 Market value of stock or shares
 Royalties and rentals
 Valuation for local or State taxation
 Accounting records of litigation in which the property improvements may have been inventoried or appraised in probate or similar proceedings
 Disinterested appraisals by approved methods

Relationship Between Lease Bonus and Mineral Rights Value

The Lease Bonus method for conventional oil & gas mineral rights has been observed in the market and in literature since the 1990's and possibly earlier. In its simplest form it provides an estimate of the Fair Market Value of a landowner's oil & gas mineral estate under the assumption that the *Highest & Best Use* is for the leasing and exploration for oil & gas. The Lease Bonus method is therefore applicable during the early stages of an oil & gas play.

The method is reliable when lease terms such as front-end bonus, annual rentals or paid-up bonus, primary term and royalty rate are reasonably uniform in an area. When applied to conventional oil and gas plays with a distinct petroleum system (separate source rock, reservoir rock, etc.), the fair market value of unleased oil & gas rights is reliably estimated by multiplying the current lease bonus amount in dollars per net mineral acre by a factor of from 2 1/2 to 3.



Lease Bonus Method for Unconventional Oil & Gas Rights

The unconventional oil & gas mineral rights include those that are being produced from horizontally drilled wells in shale formations. A change in the relationship between the bonus (now a larger paid-up-bonus) and the fair market value of the oil & gas mineral rights has been noted in the market. The multiplier is now 2 times the bonus amount to estimate the fair market value of the minerals of early-stage acreage.

In short, the oil companies need the acreage and will pay. Likewise, the landowners also want more money up front. A landowner knows that just leasing his land to an oil company does not guarantee drilling and royalty income from production, not to mention the numerous development activities, which must precede royalty payment. The landowner will therefore insist on more money up front instead of waiting for the uncertain royalty.

The combination of market factors leads to larger bonus payments for the unconventional oil & gas leases. And with larger bonus payments it follows that the multiplier with which to estimate the fair market value of the actual oil & gas mineral interest at these early stages will be smaller. Examples have been observed from the market where the leasing oil company has offered a landowner to choose between one bonus amount for a lease and the double amount for outright sale of his mineral rights. Thus, the fair market value for the latter would equal 2 times the offered bonus.

It is noted that the fair market value of the mineral rights is arrived at by a much higher multiple of the offered lease bonus than observed for early exploration leases. An offer for Niobrara shale acreage in Colorado gave a choice to the landowner between \$500 per net acre as a lease bonus for a 3/16th royalty lease versus \$1,900 for outright purchase of the mineral estate. That is a multiplier of 3.8. In this case the local area had already seen Niobrara testing and development and the operator had commenced construction of a horizontal drilling and multiple-well production pad.

In conclusion, the lease bonus approach is reliable for both conventional and for unconventional oil & gas mineral rights as long as the acreage use is in the early exploration stages. At later stages and among producing properties any unleased acreage may be worth 3 to 4 times the bonus offered. A more reliable method may be to run a discounted cash flow model, calculate a Net Present Value for the royalty stream and risk it by a probability factor for coming about at the predicted quantity and commodity price in the near future.

SUBSEQUENT EVENTS

Federal tax valuation matters are based on the fair market value standard of value. The definition of fair market value has generally been interpreted to be based only on information that was known or knowable as of the valuation date.

A subsequent event is defined as an event that occurs after the valuation date. A majority of U.S. Tax Court cases dealing with subsequent events have concluded that it is inappropriate to use hindsight as direct evidence of value as of the valuation date. However, the Tax Court has also found that certain subsequent events that occur within a reasonable time after the valuation date may be appropriate to consider in the determination of fair market value.

1. **Subsequent events that were reasonably foreseeable by a hypothetical buyer or seller as of the valuation date.** For example, in the *Trust Services* decision,⁵ the 9th Circuit Court stated that subsequent events are not considered to fix fair market value, except to the extent that they were reasonably foreseeable at the date of valuation.
2. **Subsequent events that prove the reasonableness of expectations of a hypothetical buyer or seller as of the valuation date.** For example, in the *O'Reilly* decision, the Tax Court relied on dividends actually paid after the valuation date to corroborate an expert's projected dividends.

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SUBSEQUENT EVENTS Cont.

3. **The subsequent sale of the subject ownership interest.** For example, in the *Scanlan* decision, the Tax Court stated, "The best indicator of the value of unlisted stock often is arm's-length sales of that stock at or around the time of valuation" despite the fact that the stock redemption occurred more than 2 years from the valuation date. In addition, in the *Hillebrandt* decision, the Tax Court held that a sale of property after the date of death may be considered evidence of the property's value at the date of death so long as it occurs within a reasonable time after death and intervening events have not changed the value of the property.
4. **The subsequent sale of comparable ownership interests.** For example, in the *Thompson* decision, the Tax Court stated "if comparable sales occur after the death of decedent, there is no sound reason to ignore them."

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SUBSEQUENT EVENTS Cont.

In addition, the Tax Court has opined that when a subsequent sale is relied on in the estimation of the fair market value, it is necessary to adjust the subsequent sale price for events between the valuation date and the subsequent sale date that affect the subsequent sale price.

For example, in the *Noble* decision, the Tax Court stated:

When a subsequent event is used to set the fair market value of property as of an earlier date . . . adjustments should be made to the sale price to account for happenings between the two dates which would affect the later sale price; these happenings include (1) inflation, (2) changes in the relevant industry and the expectations for that industry, (3) changes in business component results, (4) changes in technology, macroeconomics, or tax law, and (5) the occurrence or nonoccurrence of any event which a hypothetical reasonable buyer or a hypothetical reasonable seller would conclude would affect the selling price of the property subject to valuation (e.g., the death of a key employee).

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In order to overcome this limitation, when properties are exchanged, two separate transactions are structured. One transaction for the 1031 exchange of the property and the second (separate) transaction for the acquisition of royalty interest, which would be recognized as a sale, as reported to a substate.

- Partnerships. Barring a few exceptions, interests in an entity such as a partnership do not qualify as like-kind property.
- Dealers. Dealers generally do not qualify for 1031 exchange treatment due to the fact that dealers are considered to hold the property as inventory, and not for investment purposes. There are certain exceptions to this rule.

Finally, certain types of property are specifically excluded from Section 1031 treatment. Section 1031 does not apply to exchanges of:

- Inventory or stock in trade
- Stocks, bonds, or notes
- Other securities or debt
- Partnership interests
- Certificates of trust

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WHY DO WE NOT SEE THE FOLLOWING IN OIL & GAS VALUATION REPORTS WHICH ARE COMMON TO BUSINESS VALUATIONS?

Discount for the Valuation of Undivided and Non-Participating Mineral Interests

The degree to which a fractional interest should be discounted relative to an otherwise identical fee simple interest is considered. With respect to fractional discounting, the approach used by most appraisers, ten factors that affect the discount are noted, and ranges of discounts for each factor are suggested to guide appraisers in choosing an appropriate overall discount.

A fractional interest in a real estate partnership is not a fee simple interest in real estate, but is perhaps rather a security interest in a closely held business enterprise. Several factors can lessen the value of a fractional interest relative to a comparable fee simple interest.

When determining the fair market value of a fractional interest, most appraisers use the following three-step approach.

- Determine the fair market value of the underlying asset.
- Calculate the fractional interest's pro rata share.
- Apply a fractional interest discount" to the pro rata share.

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Valuation Discounts for Fractional Real Estate Ownership Interests

A real estate fractional ownership interest, also called a tenancy in common interest, exists when two or more co-tenants each own a separate fractional share of undivided real property.

Although each co-tenant has an equal right to possess and enjoy the real estate, he or she cannot:

- Exclude the other co-tenants or
- Designate any portion of the real estate as his or her own.

By their very nature, real estate fractional ownership interests typically suffer from the following valuation influences:

- A lack of marketability
- A lack of ownership control

Generally Accepted Valuation Approaches and Methods

There are two valuation approaches and methods that valuation analysts commonly use to value a real estate fractional ownership interest:

- The market approach and the sale transaction analysis valuation method and
- The income approach and the partition analysis valuation method.

The Income Approach was not used as the area is not producing.

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OIL GAS PRICE PROJECTIONS

Annual Energy Outlook 2017
with projections to 2050



January 3, 2017
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Month	Options	Change	Last	Change	Settle	Open	High	Low	Volume	Settle
APR 2017		62.27	67.7	55.14	52.79	52.50	52.50	220,280	41.14	58.14
MAY 2017		62.81	67.9	53.84	52.30	52.40	52.84	12,620	42.86	58.84
JUN 2017		63.31	67.9	54.22	52.81	52.81	53.25	44,294	44.22	59.25
JUL 2017		63.84	67.88	54.32	54.10	54.10	54.32	10,860	44.32	59.32
AUG 2017		64.37	67.88	54.32	54.20	54.20	54.32	3,890	44.32	59.32
SEP 2017		64.89	67.82	54.32	54.20	54.20	54.32	6,828	44.32	59.32
OCT 2017		64.18	67.84	54.70	54.32	54.32	54.34	1,428	44.72	59.32
NOV 2017		64.21	67.88	54.70	54.32	54.32	54.32	1,120	44.70	59.32
DEC 2017		64.18	67.82	54.70	54.32	54.32	54.32	12,748	44.70	59.32

Legend Options Price Chart About This Report

http://www.cme.com/quotes/futures/energy/crudeoil/light-sweet-crude.html 3/8/2017

Glenn Rojas
Tennessee Comptroller of Public Accounts

2017 Property Value Study

Discount Rate Range
for Oil and Gas Properties

September 2017

CALCULATING THE BASIS OF GIFTED PROPERTY

The rules as to basis in the case of a gift do not allow for a stepped-up calculation and they depend upon whether the basis is being calculated for purposes of gain or loss. For determining gain, the basis is the same as it would have been in the hands of the donor and is called a "carryover" basis. If an individual acquired the shares of stock for \$500 chooses to give them to the recipient as a gift and does not hold them until his death, the recipient takes the same \$500 basis as the donor. Therefore, if the recipient sells the shares when they reach \$1 million in value, the tax liability would be based on the gain of \$999,500. **The choice between transferring an appreciating asset by gift and holding it until death can be crucial for purposes of the recipient's income tax liability for a later sale.**

Where an asset transferred by gift depreciates to a value below the donor's original cost, the recipient's basis is the fair market value of the asset at the time of the gift. Thus, in the above example, if the shares that had cost the donor \$500 were worth \$250 at the time of the gift and had depreciated in value to \$150 at the time of the recipient's subsequent sale, the recipient's basis for measuring his loss would be \$250, and his loss would be \$100. If, however, the stock had been worth \$600 at the time of the gift but had declined to \$300 by the time of the recipient's subsequent sale, the basis for loss would be the donor's basis of \$500 (because that figure is lower than the \$600 at the value date of the gift), and the recipient's loss would be \$500 less \$300. - See more at:

<http://corporate.findlaw.com/finance/tax-basis-of-inherited-and-gifted-property.html#tshash.welDuuyn.dpuf>

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COMPUTATION OF BASIS FOR INHERITED MINERAL INTERESTS

Often time heirs receive little information on inherited mineral interests. In addition, it is common for there to be no probate or valuations done.

However, it is possible for the heirs to still obtain a valuation in order to offset the sales price.

Comparable wells are often used as a proxy for value. Cash flow for a comparable well is not defined but should have the following characteristics:

- Location
- Ownership percentage
- Initial Production (Oil, Gas, GOR, Water and Estimated Ultimate Recovery)
- Decline Rate(s) for all products
- Oil Gravity
- Gas and Natural Gas Liquids Content
- Oil, Gas, and Natural Gas Liquids Price
- Future Capital Investment
- Production Taxes
- Number of Wells, Depth, Formation
- Well type

Internal Revenue rules specify that the value for the mineral interest is determined in light of the conditions and circumstances known as of the valuation date regardless of later discoveries or improvements in methods or extractions, and/or treatment of the mineral product.

Also, basis cannot be different from what is contained in an estate return filed after July 31, 2016 pursuant to IRS Notice 2015-57.

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FAMILY LIMITED PARTNERSHIP COST DEPLETION

An individual owns a mineral interest in certain property and receives a 3M lease bonus in year 1. He forms an FLP in year 2 transferring the mineral interests and gifts - 12.25% limited partnership interests to trusts for his children. The valuation determined the total gifts were \$188,000 for gift tax purposes. In year two, drilling is complete and the Partnership begins to receive oil royalties. At this time, it is expected that the Partnership will receive \$2,063,096 in future oil royalties as its share of 296,800 barrels of oil to be produced over a 15-year period.

The following is an illustration of the mechanics of cost depletion on the lease bonus, depletion (cost or percentage) on the yearly payments and basis and gift mechanics.

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VALUATION ISSUES IN LITIGATION (Cont.)

4. The Expert Witness Must be Qualified by Experience and Training to Render an Opinion as to Fair Market Value of Oil and Gas Assets.

It is the plaintiff's burden to demonstrate that the witness is an expert on "fair market value." A good reservoir engineer with a great deal of experience in "modeling," may lack experience in determining the price at which the properties would change hands in an open market transaction. In order for the opinion to be admissible, there must be some evidence that the witness can correlate his "risked discounted cash flows" to market prices during the relevant time period.

The valuation question faced by the trial court is: 1. What reserves would a purchaser perceive may be found on the debtors' properties, and what oil and gas production would a purchaser expect to achieve over time? 2. What prices and other economic factors would a potential purchaser apply to that production, in order to turn it into cash flow? 3. At what price would such properties change hands between a buyer and seller, each with relevant knowledge, and neither under a compulsion to buy or sell? A reservoir engineer may be an expert on the first (classification of reserves and engineering), but not be an expert on the last two.

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VALUATION ISSUES IN LITIGATION (Cont.)

5. The Expert's Opinion on FMV Should be Internally Consistent.

Whatever standards the proffered expert chooses to follow should be followed rigorously so as to produce an opinion that is internally consistent. This is true as to definitions of classes of reserves and use of discount rates and risk factors. An expert who fails to follow his own definitions creates an opinion that is unreliable because it is inconsistent with the methodologies stated in his own report. The opinion of an expert who fails to follow his own guidelines is inherently unreliable.

6. The FMV Opinion Must be Based Only on Data that is Available to Buyers and Sellers in the Market Place.

The definition of fair market value is that of an open market transaction between a theoretical buyer, and a theoretical seller, both without a compulsion to buy or sell, and both with knowledge of the property. It is impossible for such an opinion to be based upon secret data that is not generally available to the public or the marketplace at large. Thus, an expert seeking to reach a FMV conclusion should not utilize, e.g., proprietary 3-D seismic to redraw the geologic maps if that data is not reasonably available to buyers and sellers in the market place. It may be impossible for a theoretical buyer and seller to have access to this type information in an open market transaction. An opinion based upon data not generally available to potential purchasers is flawed and thus impermissibly tainted.

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VALUATION ISSUES IN LITIGATION (Cont.)

7. The Expert Must Tender a Report that Satisfies the Requirements of Rule 26(a)(2)(B), FED. R. CIV.P.

A. Rule 26(a)(2)(B) Requires a Written Report Containing the Basis for the Expert's Opinion.

Part and parcel of the pretrial process, including the court's gatekeeper role under Daubert, (discussed in detail above), is the obligation of the proponent of expert testimony to provide an expert witness report that complies with Rule 26(a)(2)(B), FED. R. Civ. P. That rule provides, in pertinent part:

B. Except as otherwise stipulated ... this disclosure [of identity of experts] shall, with respect to a witness who is retained or specially employed to provide expert testimony in the case, be accompanied by a written report prepared and signed by the witness. The report shall contain a complete statement of all opinions to be expressed and the basis and reasons therefor; the data or other information considered by the witness in forming the opinions; any exhibits to be used as a summary of or support for the opinions;

1) The Expert Report Must Include an Explanation of the Basis for the Opinion of Value.

The basis for an expert's fair market value opinion must be contained in the written report as required by Rule 26(a)(2)(B). This is also true in bankruptcy court because Rules 26 and 37 apply through BANKR. R. 7026 and 7037, and both apply in contested matters. Rule 26(a)(2)(B) requires that the expert provide a written report, signed by him, containing his opinion and the bases for it. A failure to provide the required report means the witness may not testify.

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APPRAISAL DISTRICT VALUES FOR PROPERTY TAX

Sec. 23.01. APPRAISALS GENERALLY.
SOURCE: TEXAS PROPERTY TAX CODE

- (b) The market value of property shall be determined by the application of generally accepted appraisal methods and techniques. If the appraisal district determines the appraised value of a property using mass appraisal standards, the mass appraisal standards must comply with the Uniform Standards of Professional Appraisal Practice. The same or similar appraisal methods and techniques shall be used in appraising the same or similar kinds of property. However, each property shall be appraised based upon the individual characteristics that affect the property's market value, and all available evidence that is specific to the value of the property shall be taken into account in determining the property's market value.

Selected Excerpts Regarding Oil & Gas Appraisal Procedure

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4. Why is my property being appraised?

For ad valorem tax purposes in Texas, all property is taxable unless specifically exempted by law. Per Texas Constitution Article VIII, Section 1(a), all property must be taxed equally and uniformly. Any exemptions must be authorized [Texas Constitution Article VIII, Section 1(b)].

5. Is my mineral interest taxable if my well or lease didn't exist before January 1 of this tax year?

Texas Property Tax Code does not say that a mineral interest is taxable only if there is income being generated by the interest.

Practically speaking, however, the value of the interest may be zero (in the eyes of the appraisal district) if no income is being generated and no income could be reasonably if a well associated with that lease has not been completed before January 1.

6. Why is January 1 so important?

In Texas, all property is locally appraised "as of" January 1 of each tax year for property tax purposes, per Texas Property Tax Code, Section 23.01(a).

The value of a property at any point in time is an estimate of the price for which it would sell on January 1 under an "arm's length" agreement between a willing buyer and willing seller, with each party under no compulsion to buy or sell, the property having been exposed to the free market for a reasonable time, and with each party knowing all the uses and purposes of the property. This is known as "fair market value" and is statutorily defined in the Property Tax Code, Section 1.04(7).

15. Can I find out how much production this well or lease is making (barrels of oil, mcf of gas)?

There is no charge for access to these records. If you require production records from earlier than January 1993, or if you require historical permitting records filed for a well that are not available online, you will need to contact the Commission's Central Records department at (512) 463-6862. For a small charge you may obtain copies of any records maintained in the Central records department.

To obtain production information on-line, you will need the RRC Identification Number for the well, a five digit number for oil wells or a six digit number for gas wells. This identification number is required to be posted at the entrance to the property where the well is located. It is also required to be clearly stated on the payment stubs that royalty owners receive from either the operator or the pipeline gatherer/purchaser. This identification information may not be the same identification number used on any payment stub or other documentation received by a royalty interest owner.

To access production information for a specific lease, start at the home page, go to the "Data - Online Research Queries" page (see links at side or bottom of home page) and launch the "Production Data Query System (PDQ) (Statewide)" application under the Oil & Gas menu. Once the application is launched, choose the "Specific Lease Query" option. The direct link to this specific lease query is:

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Property Tax Code

Sec. 23.175. Oil or Gas Interest.

(a) [2 Versions: Effective Until January 1, 2016] If a real property interest in oil or gas in place is appraised by a method that takes into account the future income from the sale of oil or gas to be produced from the interest, the method must use the average price of the oil or gas from the interest for the preceding calendar year multiplied by a price adjustment factor as the price at which the oil or gas produced from the interest is projected to be sold in the current year of the appraisal. The average price for the preceding calendar year is calculated by dividing the sum of the monthly average prices for which oil and gas from the interest was selling during each month of the preceding calendar year by 12. If there was no production of oil or gas from the interest during any month of the preceding calendar year, the average price for which similar oil and gas from comparable interests was selling during that month is to be used. The chief appraiser shall calculate the price adjustment factor by dividing the price of imported low-sulfur light crude oil in nominal dollars or the spot price of natural gas at the Henry Hub in nominal dollars, as applicable, as projected for the current calendar year by the United States Energy Information Administration in the most recently published Early Release Overview of the Annual Energy Outlook by the price of imported low-sulfur light crude oil in nominal dollars or the spot price of natural gas at the Henry Hub in nominal dollars, as applicable, for the preceding calendar year as stated in the same report. The price for the interest used in the second through the sixth calendar year of the appraisal may not reflect an annual escalation or de-escalation rate that exceeds the average annual percentage change from 1982 to the most recent year for which the information is available in the producer price index for domestically produced petroleum or for natural gas, as applicable, as published by the Bureau of Labor Statistics of the United States Department of Labor. The price for the interest used in the sixth calendar year of the appraisal must be used in each subsequent year of the appraisal.

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Partnership Audit Rules

Bye bye TEFRA! The Bipartisan Budget Act of 2015 §1101, Pub. L. No. 114-74, signed by the President on 11/2/15, made sweeping changes to the partnership audit rules. The TEFRA rules (in §§ 6221-6231) and Electing Large Partnership rules (in §§ 6240-6242, 6245-6248, 6251-6252, and 6255) have been repealed and replaced in new §§ 6221-6223, 6225-6227, 6231-6235 and 6241, with an entity-level audit process that allows the IRS to assess and collect the taxes against the partnership unless the partnership properly elects out. The new rules will simplify the current complex procedures on determining who is authorized to settle on behalf of the partnership and also avoid the IRS's need to send various notices to all of the partners. Under the new provisions the IRS may reduce the potential tax rate assessed against the partnership to take into account factors such as tax-exempt partners and potential favorable capital gains tax rates. The new rules should significantly simplify partnership audits. As a result, the audit rate of partnerships might increase. Although partnerships with 100 or fewer partners can elect out of the new rules, §6221(b), such election is not available if there is another partnership as a partner. Implementation of the new rules is deferred; the new rules apply to partnership taxable years beginning after 12/31/17. Partnership agreements should be amended to take into account these changes.

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Who can be the Partnership Representative?

- In order to be the partnership representative, the person must have (1) a substantial presence in the United States; and (2) the capacity to act.
 - › Unlike TEFRA, the partnership representative does not have to be a partner.
- A person has a substantial presence in the United States if the person:
 - › can meet in person with the IRS at a reasonable time and place;
 - › has a U.S. street address and telephone number; and
 - › has a U.S. taxpayer identification number.
- If the partnership representative is an entity, the partnership must identify an individual that can act on the entity's behalf that satisfies the eligibility requirements.
- **Note:** Actions taken by an ineligible partnership representative are valid and designation remains in effect until terminated (by resignation, revocation or IRS determination).

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From now on, unless your partnership is eligible to elect out, and does elect out, the IRS will only deal with the PR, and the partners have no rights to separately appeal a tax assessment. The PR also has the power to take other binding actions with the IRS that you cannot appeal. These include:

- Waiving the Statute of Limitations or other defenses;
- Communicating with the IRS and agreeing to settle the total tax liability of all the partners;
- Once the total tax assessment is agreed, the PR is able to elect to either:
 - allocate that total amount among the partners, so the IRS can collect a specific amount from each partner or
 - pay the tax on each partner's behalf at the partnership level.

Moreover, the new rules eliminate the concept of notice partners who are entitled to hear directly from the IRS. So, an audit could commence and run its course, and unless the PR keeps the partners informed, they might never know about it until they get a bill that is no longer appealable.

Some partnerships will be able to elect out of this new centralized audit regime. To be eligible, the partnership must have 100 or fewer partners, all of whom are individuals or C corporations. The new rules are mandatory for everyone else. And the election must be made by the entity. The partners themselves have no ability to elect out. If your partnership can elect out, you and your partners should seriously consider doing so. If you can't—or if you're unsure—here are some important questions the investors and the managing partners should answer in the form of amendments to the partnership agreement.

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SUMMARY

In summary, the fair market value of an oil and gas interest is a function of its anticipated capacity to produce cash flow. For producing properties too small to justify a detailed engineering study and for non-producing properties, detailed information must be developed in order to select an appropriate multiple of production or bonus income to estimate fair market value. The appropriate multiple will, in almost every case, be significantly lower than a multiple of earnings appropriate to securities or surface interests in real estate.



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