

***HARTLEY COUNTY APPRAISAL DISTRICT***

**PLAN FOR PERIODIC REAPPRAISAL**

**For Years  
2015 and 2016**

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### **TAX CODE REQUIREMENT:**

Passage of Senate Bill 1652 amended Section 6.05 of the Texas Property Tax code by adding Subsection (i) to read as follows:

- (i) To ensure adherence with generally accepted appraisal practices, the board of directors of an appraisal district shall develop biennially a written plan for the periodic reappraisal of all property within the boundaries of the district according to the requirements of Section 25.18 and shall hold a public hearing to consider the proposed plan. Not later than the 10<sup>th</sup> day before the date of the hearing, the secretary of the board shall deliver to the presiding officer of the governing body of each taxing unit participating in the district a written notice of the date, time, and place of the hearing. Not later than September 15 of each even-numbered year, the board shall complete its hearings, make any amendments, and by resolution finally approve the plan. Copies of the approved plan shall be distributed to the presiding officer of the governing body of each taxing unit participating in the district and to the Comptroller within 60 days of the approval date.

### **Plan for Periodic Reappraisal Requirement:**

Senate Bill 1652 amends Section 25.18, Subsections (a) and (b) to read as follows:

- (a) Each appraisal office shall implement the Plan for Periodic Reappraisal of property approved by the board of directors under Section 6.05(i).
- (b) The plan shall provide for the following reappraisal activities for all real and personal property in the district at least once every three years:
  1. identifying properties to be appraised through physical inspection or by other reliable means of identification, including deeds or other legal documentation, aerial photographs, land-based photographs, surveys, maps, and property sketches;
  2. identifying and updating relevant characteristics of each property in the appraisal records;
  3. defining market areas in the district;
  4. identifying property characteristics that affect property value in each market area, including:
    - a. the location and market area of property;
    - b. physical attributes of property, such as size, age, and condition;
    - c. legal and economic attributes; and
    - d. easements, covenants, leases, reservations, contracts, declarations, special assessments, ordinances, or legal restrictions;
  5. developing an appraisal model that reflects the relationship among the property characteristics affecting value in each market area and determines the contribution of individual property characteristics;
  6. applying the conclusions reflected in the model to the characteristics of the properties being appraised; and the properties being appraised; and
  7. reviewing the appraisal results to determine value.

### **REVALUATION DECISION (REAPPRAISAL CYCLE):**

The Hartley CAD, by policy adopted by the Board of Directors and the Chief Appraiser, reappraises all property in the district on a three year cycle. The reappraisal year is a complete appraisal of all properties within each school district as set out and identified more specifically in our reappraisal plan. Tax year 2015 is a reappraisal year and tax year 2016 is a reappraisal year.

### **PERFORMANCE ANALYSIS:**

Performance Analysis – the equalized values from the previous tax year are analyzed with ratio studies of the current market to determine the appraisal accuracy and appraisal uniformity overall, and by market area, within property reporting categories. Ratio studies are conducted in compliance with the current Standard on Ratio Studies of the IAAO. Mean, median, and weighted ratios are calculated for properties in reporting categories to measure the level of appraisal accuracy. The median ratio is calculated in each reappraised category to indicate the level of appraisal accuracy by property reporting category. In 2015, the reappraisal year, this analysis is used to develop the starting point for establishing the level and accuracy of appraisal performance. Likewise, in 2016 the reappraisal year, this analysis is used to develop the starting point for establishing the level and accuracy of appraisal performance. In 2015 and 2016, any reporting category that may have been previously excluded from reappraisal, due to lack of data, will be readdressed. If sufficient market data has been discovered and verified, the category will be tested and analyzed to arrive at an indication of uniformity or equity of existing appraisals.

### **ANALYSIS OF AVAILABLE RESOURCES:**

Staffing and budget requirements for tax year 2015 are detailed in the 2015 budget, as adopted by the Board of Directors of the Hartley County Appraisal District, and attached to the written biennial plan by reference. This reappraisal plan is adjusted to reflect the available staffing in tax year 2014 and anticipated staffing for tax year 2015/16. Budget restraints can impact the cycle of real property re-inspection and personal property on-site review that can be accomplished in the 2015/16 time period.

Hartley County Appraisal District contracts with Pritchard and Abbott, Inc. for appraisal services of all properties in Hartley County. Personnel are provided to complete field work and field studies on real and personal properties along with some assistance from CAD staff. Pritchard and Abbott, Inc. also provide data analysis and information to complete the appraisal process and assist with taxpayer protests and informal reviews during the appraisal review period. Pritchard and Abbott, Inc. also appraise all personal, industrial, commercial, utilities, minerals and agricultural special appraisal properties.

Existing appraisal practices, which are continued from year to year, are identified with methods utilized to keep these practices current. In the reappraisal year, real property appraisal depreciation tables are tested against verified sales data to ensure they represent current market data. Personal property density schedules are tested and analyzed based on renditions and prior

year documentation. Due to lack of sales of personal property in the district, Marshall Swift valuation information is used along with the Comptroller's Guide to appraise personal property and for testing analysis purposes.

Information Systems (IS) support is detailed and system upgrades are scheduled. Existing maps and data requirements are continually updated and kept current.

### **PLANNING AND ORGANIZATION:**

A calendar of key events with critical completion dates is prepared for each area of work. This calendar identifies key events for appraisal, clerical, customer service, and information systems. A calendar is prepared for tax years 2015 and 2016. Production standards for field activities are calculated and incorporated in the planning and scheduling process.

The projected dates incorporated into the calendar may be adjusted within the overall plan due to unforeseen changes in staffing, budgetary constraints, weather, and/or reevaluation of the priorities of the projects within the plan.

Periodic and concurrent examination of production standards, goals, and progress in the plan may require adjustments to the on-going plan or to the plan for the succeeding year(s). The CAD and Chief Appraiser, together with the Pritchard and Abbott field staff will work closely to identify issues that may affect the successful completion of the on-going plan and work to resolve those issues.

## MASS APPRAISAL SYSTEM:

Computer Assisted Mass Appraisal (CAMA) system revisions are completed by the Information Systems Software Provider. System revisions and procedures are performed by the Provider. Hartley County Appraisal District contracts with the firm of Southwest Data Solutions, LLC for these services.

### Real Property Valuation

Revisions to cost models, income models, and market models are specified, updated, and tested each tax year. Pritchard & Abbott, Inc. values and appraises all real properties in Hartley County Appraisal District with the assistance and approval of the Chief Appraiser.

Cost schedules are tested with market data (sales) to insure that the appraisal district is in compliance with Texas Property Tax Code, Section 23.011. Replacement cost new tables as well as depreciation tables are tested for accuracy and uniformity using ratio study tools and compared with cost data from recognized industry leaders, such as Marshall & Swift. The following equation is the model used by the district:

$$MV = (RCNLD) MA + LV$$

In the formula above, the replacement cost new less depreciation (RCNLD) of the improvements are multiplied by the appropriate neighborhood market adjustment factor (MA) to arrive at a current improvement value. The current improvement value is added to the land value (LV) to arrive at an estimate of market value (MV). Market adjustments will be applied uniformly within neighborhoods to account for market preferences affecting value in each location throughout the district.

Defined market areas in Hartley County are: City of Dalhart, City of Channing, and Hartley (an unincorporated town) and all rural properties outside the city limits. All A and residential category properties are defined in the market areas of the City of Dalhart, City of Channing and Hartley. All C category properties are defined within each city, City of Dalhart, City of Channing and Hartley and are separate of each other. All D category property is considered for all land within rural Hartley County. Market areas are reviewed annually for presence of competing property characteristics.

Land schedules are updated using current market data (sales) and then tested with ratio study tools. Value schedules are developed and tested on a pilot basis with ratio study tools.

### Personal Property Valuation

Density schedules are tested using data received during the previous tax year from renditions and hearing documentation. Valuation procedures are reviewed modified as needed, and tested. The latest edition of the Marshall & Swift cost guides are utilized

heavily in the appraisal of personal property in the district. Pritchard & Abbott, Inc. values and appraises all personal property for Hartley County Appraisal District with the assistance and approval of the Chief Appraiser.

### Noticing Process

25.19 appraisal notice forms are provided by the IS Provider. The Provider reviews and edits for updates and changes required by legislative mandates. The district publishes, in the local newspaper, information about the notices and how to protest. The district makes available the latest copy of the Comptroller's pamphlet Property Taxpayer Remedies, as well as mailing a Notice of Protest and a Property Taxpayer Remedies pamphlet with each notice. A statement concerning owner's right to claim a homestead and a homestead form are included with accounts whose residential property address is the mailing address. The district prints and mails all notices in house.

### Hearing Process

Protest hearing scheduling for informal and formal Appraisal Review Board hearings is reviewed and updated as required. Standards of documentation are reviewed and amended as required. The appraisal district hearing documentation is reviewed and updated to reflect the current valuation process and requirements. Compliance with House Bill 201 is insured.

### DATA COLLECTION REQUIREMENTS:

Field and office procedures are reviewed and revised as required for data collection. Activities for each tax year include new businesses and personal property, new construction, demolition, remodeling, re-inspection of problematic market areas, re-inspection of the universe of properties on a specific cycle, and field or office verification of sales data and property characteristics.

### New Businesses/Personal Property

The appraisal staff at the CAD keeps abreast of any new businesses in the area and sends renditions for the year. Sales tax permits are checked as well as the local paper for any new businesses in the area. The CAD also uses Just Texas publication to verify and check any new commercial vehicles registered in Hartley County. Renditions are then sent to these owners. Pritchard and Abbott are then notified of the information.



### New Construction/Demolition

New construction field and office review procedures are identified and revised as required. Sources of building permits are confirmed. The Cities of Hartley and Channing do not issue permits. The City of Dalhart is a valuable source of information regarding new construction and demolition in the Dalhart area. The City of Dalhart has building permits and blue prints of new construction that can be obtained. As of September 1, 2008 State Law required inspections on various construction. This information might be available to the public through the Texas Residential Construction Commission. Additionally, the Dalhart Texan's articles are kept throughout the year for reference purposes.

### Remodeling

Properties with extensive improvement remodeling are identified and field inspections are scheduled to update property characteristic data. Mechanic's Liens and Deeds of Trust provide information concerning properties that are being remodeled or additions are being added. The City of Dalhart could have information on additions and remodels through a filed building permit. Channing and Hartley cities are part of the field inspection done by the appraisal district staff to discover any new remodeling or improvements.

### Re-inspection of Problematic Market Areas

Market areas are areas within the appraisal district where values are considered consistent or in relative harmony among individual properties, an area where physical, economic, governmental and social forces and other influences (i.e. demographic patterns, regional location factors, employment and income patterns, general trends in real property prices and rents, interest rate trends, availability of vacant land, and construction trends and costs) have similar influences in property values. The affect on values may be real and quantifiable, or may be perceived. In either case, the market area is the first basis for market analysis.

Real property market areas (neighborhoods), by property classification, are tested for consistently low or high ratio sales and/or high coefficients of dispersion in comparison to the general market or other identified Market Areas. Market areas that fail any or all of these tests, or are known to be in a state of growth or change, are determined to be problematic. Field inspections are scheduled to verify and/or correct property characteristic data. Additional sales data is researched and verified.

### Re-inspection of the Universe of Properties

The International Association of Assessing Officers' *Standard on Mass Appraisal of Real Property* specifies that the universe of properties should be re-inspected on a cycle of 3 years. The re-inspection includes physically viewing the property, photographing, and verifying the accuracy of the existing data. The field appraiser has an appraisal card of each property to be inspected and makes notes of changes, depreciation changes, remodeling, additions, etc. The annual re-inspection requirements for tax years 2015 and 2016 are identified and scheduled in the written reappraisal plan.

### Verification of Sales Data and Property Characteristics

Sales information must be verified and property characteristic data contemporaneous with the date of sale captured. The sales ratio analysis requires that the sales record must accurately reflect the property appraised in order that statistical analysis results will be valid and therefore be an accurate example of the universe of properties to which any adjustments will be applied. The conditions of each sale are investigated and confirmed, to the greatest extent possible, to determine its applicability to the overall market analysis. Properties exhibiting atypically high or low sales ratios (outliers) are especially scrutinized with reference to the Texas Property Tax Code definition of Market Value, Sec. 1.04(7), and may be excluded from the general market analysis if the transaction conditions do not correspond to the aforementioned definition of Market Value.

### **PILOT STUDY BY TAX YEAR:**

New and/or revised mass appraisal models are tested each tax year. Ratio studies, by market area, are conducted on proposed values each tax year. Proposed values on each category are tested for accuracy and reliability. Actual test results are compared with anticipated results and those models not performing satisfactorily are refined and retested. The procedures used for model specification and calibration are in compliance with USPAP, STANDARD RULE 6. The appraisal model used to determine property value is listed as follows:

1. Market Value of Residential Property =  
*Replacement Cost New x Total Percent Good + Depreciated Additive Values + Land Value*  
(Adjusted by Market Indicators as determined by Sales Data, as available)
2. Market Value of Commercial Property =  
*Replacement Cost New x Total Percent Good + Depreciated Additive Values + Land Value*  
(Adjusted by Market Indicators as determined by Sales Data, as available)
3. Market Value of Manufactured Housing =  
*Replacement Cost New x Total Percent Good + Depreciated Additive Values*
4. Market Value of Commercial Personal Property =  
*Units x (Price/Unit of Inventory) + Units x (Price/Unit of FFE x Percent Good) + Additive Values*
5. Market Value of Vacant Lots or Acreage =  
*Units x Price/Unit*  
(As determined by Market Transactions)
6. 1-D-1 Special Use Valuation (Ag Value) =  
*Units x Value per Acre of Agricultural Use*  
(As determined by Net Income per Acre/State Mandated Cap Rate)

Defining market areas with the district: Our Market areas are City of Dalhart, City of Channing and City of Hartley and areas in rural Hartley County. The City of Hartley is an unincorporated town. (see page 7)

### **VALUATION BY TAX YEAR:**

Using market analysis of comparable sales and locally tested cost data (if available), valuation models (Value per Square Foot Schedules) are specified and calibrated in compliance with supplemental standards from the IAAO and USPAP. The calculated values are tested for accuracy and uniformity using ratio studies. Performance standards are those as established by the IAAO Standard on Ratio Studies. Property values in all market categories are analyzed and updated as necessary each reappraisal year.

In order to evaluate the accuracy of the schedule values, property sales information is collected throughout the year. Each property buyer and seller receives a sales letter along with any other necessary forms when the appraisal district updates the ownership in the appraisal records. When the sales letter is returned, the sale amount and any other pertinent information is recorded within that parcel's sales records. If more than one parcel is involved in the sale transaction, those parcels are "linked" to accurately record the value of the property. Information is gathered also from real estate offices, other appraisers, other appraisal districts and state reviewers. All credible information is included in the sales records and confirmation is attempted through additional sales letters. Since the State of Texas is a non-disclosure state, the market analysis performed is limited by the availability of pertinent and complete data, including sales prices, sales conditions and circumstances, income and expense data, etc. Each sale is initially considered (assumed) to be a market transaction unless otherwise proved. The resulting conclusions from the market analysis are therefore limited by those assumptions. The Mass Appraisal conducted yearly by Hartley County Appraisal District also can claim the Jurisdiction Exemption (USPAP) due to the limited scope and purpose of the appraisal, and considering the guidelines of the Texas Property Tax Code.

Each sale is analyzed to determine the conditions of the sale. All sales included in the study must be a "market value" transaction, as defined in the Texas Property Tax Code, Section 1.04(7), and quoted earlier in this manual. Any sale determined to not be an "arms length" transaction is then omitted from the final study. Several criteria are also considered when determining if each sales price needs any adjustment including, but not limited to: date of sale (in comparison to date of appraisal), special or unusual financing terms, inclusion of personal property, inclusion of intangible value, and significant variances between the market value and the sale price due to physical changes to the property that cannot be accounted for due to the January 1 target date. If adjustments can be made to the sales price to show a current "arms length" value (including time and financing adjustments), the adjusted value is used in the ratio study. Any adjustments to reported sales prices must be discussed, debated, and approved by the appraisal supervisor (Pritchard & Abbott) and the Chief Appraiser.

Sales used to determine real estate value should not include value that can be attributed to personal property or intangible value. For example, if a home sells, and the transaction

included personal property (vehicles, boats, furniture, free-standing appliances, tools, etc.), the value associated with that personal property should be deducted from the reported sales price. The resulting, adjusted sales price is then used in the ratio study.

Likewise, commercial property transactions often include both personal property and intangible value. For example, if a motel sells and the buyer purchased the motel franchise along with the real estate, the value of the franchise (intangible value) should be deducted from the sales price before being used in any market study. Determining the value of any intangibles in any transactions can be problematic and will require research into the industry and the local and similar markets. Although suspected by the appraisal staff, and often reported by buyers, adjustment for intangibles requires confirmation from outside sources and the seller.

Financing adjustments occur rarely. Typically, prudent buyers will strive to acquire the most reasonable financing available, and then purchase the property of their choice using that same financing. Atypical financial arrangements usually accompany transactions that would not be considered "arms length" and would therefore be omitted from the ratio study.

Time adjustments are adjustments to the reported sales price of the property that are made when and if it can be proven that the general market trend in an area is changing over a given time period. While relatively simple to calculate in the abstract, time adjustments are extremely difficult to quantify without substantial data, especially in small, rural markets. If a typical property transfers more than one time in a given time period (ideally no more than 1 year), each time being an arms-length transaction, with typical financing, and without physical changes to the property, the difference in the sales prices can be attributed to the general market. This difference, expressed as a positive or negative percentage per month, can then be applied to other property's sales prices to adjust the price to a standard date, usually January 1<sup>st</sup> of the appraisal year.

A statistical analysis of each class of property is conducted using the available, credible, and adjusted sales information. Within each class of property, the appraisal district looks for not only an acceptable median value, but also a reasonable COD. Each of these values is considered when determining whether to adjust a class schedule, and by how much. The sample size of each class analysis is also a major consideration. Classes that exhibit little or slow activity are allowed a larger variance due to the fact that minimal data sets (small samples) may tend to give incomplete analysis or biased results for an entire statistical population.

Once a median value indicates that a particular property type or class needs adjustment, and the COD value reflects a consistent result, schedule values are recalculated to produce a revised analysis. The resulting median ratio should indicate that the adjusted appraised values of property more closely matches the current market value, as tested by the sales used in the analysis. The appraised values of all properties, sold and unsold, within that type or class are then recalculated, using the increase or decrease indicated by the ration study, and submitted for notification.

A similar process is used to determine whether any neighborhood factors are needed by analyzing sales within a specific area (market segments) in comparison to the overall general market. These areas could be neighborhoods, cities, school district or any other definable area within the appraisal district that displays market trends or values differing from the trends or values derived from the market as a whole. Any significant and quantifiable differences then need to be addressed with economic adjustments to the properties within the pertinent area.

### Ratio Study Procedures

- I. Collect and Post Sales Data
  - A. Solicit sales information from all new property owners through sales letters and/or personal contact.
  - B. Collect sales information from outside appraisers and from fee appraisals presented
  - C. Utilize sales information from Comptroller's office
  - D. Post sales information to the sales database
    1. Record actual sales price
    2. Note unusual financing
    3. Note non-arm length participants
    4. Adjust sales price for inclusion of personal property or intangible value
    5. Initiate frozen characteristics/partial sale codes if necessary
      - a) Imminent construction/renovation can bias any later analysis by including values not part of the original transaction
      - b) Sale including only a portion of the property described can also produce skewed results
- II. Preliminary Analysis
  - A. Run sales analysis (by type, group, or class) which includes any and all sales collected to date
  - B. Note median result and COD
  - C. Examine each sale included
    1. Compare sale ratio to median result
    2. Ratios substantially higher or lower than the median result (outliers) are singled out for further, in-depth analysis
      - a) Note seller-financial institutions, known real estate opportunists, probates, known persons who finance their own transactions
      - b) Note buyer-financial institutions, known real estate opportunists, and re-location companies
      - c) Examine deed records to confirm "arms length" violations not evident from examination of buyer and seller.
        - i) Contract for deed
        - ii) Assumption of previous note
        - iii) Atypical financing

- d) Re-inspect properties to rule out any physical differences from the current property records
- e) Outlier sales that cannot be excluded or adjusted due to the reasons given above are nonetheless included in the subsequent analysis
- D. Adjust original data set
  - 1. Omit sales that are not arms length
  - 2. Adjust sales values for time or financing if necessary and possible
  - 3. Adjust appraisal values for physical differences if applicable

### III. Secondary Analysis

- A. Run sales analysis (by type, group, or class) utilizing information from preliminary analysis
- B. Note median result and COD
  - 1. Median Value may or may not change significantly
  - 2. COD value should improve
- C. Note sample size
  - 1. Compare number of sales within the class to the perceived number of total properties within the class
  - 2. From experience and discussion among the appraisal staff and Pritchard and Abbott, determine whether any median result different from 1.00 is significant
- D. Attempt to increase sample size – if necessary
  - 1. Utilize time adjustments if determinable
  - 2. Keep in mind marketing time for local market and any trends
  - 3. Be careful to not include more sales just for sales sake
  - 4. Changing markets and trends cannot be reflected in sales that are too old without accurate time adjustments
- E. Apply results of analysis to current records
  - 1. Any class whose median value is not significantly different from 1.00 does not require adjustment
  - 2. Any class whose median value indicates that an adjustment is necessary should be analyzed
    - a) Look at typical depreciate (age/condition) for that class as reflected in the sales analysis
    - b) Calculate increase necessary to raise the individual ratios to produce a median result of 1.00 (keeping in mind that because of depreciation, the percentage increase required is going to be necessarily larger than the difference in percentage points needed to reach a 1.00 result)
    - c) Apply the calculated increase to the database
  - 3. Repeat procedure for all classes determined to need adjustment
- F. Run analysis again to test results

- IV. Examine results to identify neighborhoods that need adjustment
  - A. As individual sales are examined, note any areas/neighborhoods/subdivisions that consistently show ratios significantly different from the median result
  - B. Run analysis excluding the area in questions
  - C. Run analysis including only the neighborhood in questions
  - D. Check for significant variance between the two results
  - E. Apply neighborhood factor to correct variance

#### **THE MASS APPRAISAL REPORT:**

Each tax year, the required Mass Appraisal Report is prepared and certified by the Chief Appraiser at the conclusion of the appraisal phase of the ad valorem tax calendar (on or about June 1). The Mass Appraisal Report is completed in compliance with STANDARD RULE 6 – 8 of the *Uniform Standards of Professional Appraisal Practice*. The signed certification by the Chief Appraiser is compliant with STANDARD RULE 6 – 9 of *USPAP*. This written reappraisal plan is attached to the report by reference.

#### **VALUE DEFENSE:**

**Evidence to be used by the appraisal district to meet its burden of proof for market value and equity in both informal and formal appraisal review board hearings is specified and tested.** Taxpayers have the option to present their concerns informally to the chief appraiser, or by appointment with the Pritchard & Abbott staff. The chief appraiser and Pritchard & Abbott staff discusses each account and the final outcome of value. Should an understanding not be reached informally, the taxpayer may present their arguments to the Appraisal Review Board as a formal appeal. The appraisal staff provided by Pritchard & Abbott Inc. defends the position of the chief appraiser before the ARB. The Appraisal District has the burden of proof for the value as notified. Evidence for further consideration by the appraisal district or the ARB should be presented by the taxpayer.



# ***THE WRITTEN REAPPRAISAL PLAN FOR HARTLEY COUNTY APPRAISAL DISTRICT***

## **PLANNING A REAPPRAISAL**

Variation in reappraisal requirements requires Hartley County Appraisal District to carefully plan its work before beginning any reappraisal. Although the planning process may vary in specifics, it should involve five (5) basic steps:

1. Assess current performance.
2. Set reappraisal goals.
3. Assess available resources and determine needs.
4. Re-evaluate goals and adjust as necessary.
5. Develop a work plan.

## **STEPS IN A REAPPRAISAL**

The International Association of Assessing Officers (IAAO) textbook, Property Appraisal and Assessment Administration, lists ten steps in a reappraisal. These steps outline those activities performed by Hartley County Appraisal District for the completion of periodic reappraisals. Activities are listed below in the order in which they occur:

1. Performance Analysis:
  - ¶ ratio study
  - ¶ equity of existing values
  - ¶ consistency of values with market activity
2. Revaluation Decision:
  - ¶ statutory – at least once every three years
  - ¶ administrative policy
3. Analysis of Available Resources:
  - ¶ staffing
  - ¶ budget
  - ¶ existing practices
  - ¶ information system support
  - ¶ existing data and maps
4. Planning and Organization
  - ¶ target completion dates
  - ¶ identify performance objectives
  - ¶ specific action plans and schedules
  - ¶ identify critical activities with completion dates

- ¶ set production standards for field activities
- 5. Mass Appraisal System:
  - ¶ forms and procedures revised as necessary
  - ¶ CAMA (computer assisted mass appraisal) system revisions as required
- 6. Conduct Pilot Study
  - ¶ test new/revised appraisal methods as applicable
  - ¶ conduct ratio studies
  - ¶ determine if values are accurate and reliable
- 7. Data Collection
  - ¶ building permits and other sources of new construction
  - ¶ check properties that have undergone remodeling
  - ¶ reinspection of problematic properties
  - ¶ reinspection of universe of properties on a cyclic basis
- 8. Valuation:
  - ¶ market analysis (based on ratio studies)
  - ¶ schedules development
  - ¶ application of revised schedules
  - ¶ calculation of preliminary values
  - ¶ tests of values for accuracy and uniformity
- 9. The Mass Appraisal Report
  - ¶ establish scope of work
  - ¶ compliance with Standards Rule 6 - 7 of USPAP
  - ¶ signed certification by the chief appraiser as required by Standards Rule 6 - 8 of USPAP
- 10. Value Defense:
  - ¶ prepare and deliver notices of value to property owners
  - ¶ hold informal hearings
  - ¶ schedule and hold formal appeal hearings

\*\*Note—the burden of proof (evidence) of market values and equity falls on the appraisal district.\*\*

# **Hartley County Appraisal District**

## **Residential, Commercial, Rural, and Personal Property**

### **2015/2016 Reappraisal Plan**

Pursuant to Section 25.18 of the Texas Property Tax Code, the Hartley County Appraisal District has established the following reappraisal plan to provide for the reappraisal of all property within the district at least once every three (3) years. The plan establishes a two-fold approach:

1. **Three-Year Cycle:** The CAD is divided into three areas. Each year, all real residential and commercial property within one of the areas will be reappraised and physically inspected, regardless of any ratio study/report findings. These areas are identified as follows:
  - a. Area One: All property within the city limits of the City of Dalhart within Hartley County boundaries & surrounding platted subdivisions outside the City limits within Hartley County which are: H&TC, Block 48, Sec 42 S/D, Country Club Estates, Country Village, Green Acres, Martin S/D, Pheasant Run, Pioneer Estates, Prairie View Estates, Sunrise Estates, West Point Estates and Wesward Acres. To be completed in 2017.
  - b. Area Two: All property within the boundaries of Hartley ISD. The City of Hartley and all rural property within Hartley ISD boundaries. The rural properties in Dalhart ISD not included in area one and described as: J Beaty Pre-emp, Sublett Pre-emp, Toby Pre-emp, B&B Blocks 2 & 4, CSS Blocks 4 & 5, H&TC, Block 48, PFS, Block A-1, A-4, A-7 (the portions of these surveys that are in Dalhart ISD boundaries only). To be completed in 2015.
  - c. Area Three: All property within the boundaries of Channing ISD that are in Hartley County. The City of Channing and all rural property. To be completed in 2016.

As mentioned prior, these yearly plans are designed to be flexible within the overall reappraisal plan. The specific workload within and between plan years may need to be adjusted to provide for complete and accurate reappraisals. Each of the cycle years will include those properties needing an inspection based on other methods of identification, such as new construction, new ownership, changing market area, new development, etc. as discussed in the section concerning data collection requirements.

**\*\*Note: all income producing personal property within the CAD is appraised on an annual basis, regardless of its location.\*\***

2. **Annual Ratio Reports:** In addition to the three year cycle stated above, ratio studies shall be performed annually to determine areas or categories of properties within the CAD which need to be reappraised within the current year based on sales ratios. Any areas or categories whose ratios are above or below statutory requirements shall be reappraised in the current year regardless of the area in which they are located.

This two-fold approach will insure not only that all residential and commercial property within the CAD is reappraised at least once every three years, but also that all other categories within the CAD are reviewed annually so that the appraisal district stays current with respect to market value in those areas where residential and/or commercial property values appear to be changing rapidly.

- Each inspection of property will identify and verify or update the relevant characteristics of the property. These characteristics include but are not limited to: name and address of owner, physical address, legal description, multiple ownerships, and any other means of differentiating the property.
- Market area analysis involves the examination of how physical, economic, governmental and social forces are also used to identify, classify, and stratify comparable properties into smaller, manageable subsets of the universe of properties known as market areas. In an area of very stable and homogenous values, the market area may be the entire district. More often, the market areas are School District, Cities, or Sub-divisions. If adequate and accurate information is available, further delineation is possible. During the reappraisal, field appraisers are directed to be complete and consistent in the gathering of information on each property's characteristics. Once recorded, these characteristics can be used to sort market data (sales) to determine whether these characteristics have any effect on the value of properties within the market area. Further, the degree of effect that these characteristics have on the value can be used to define and delineate the market areas, one from another. In homogeneous markets, the market areas will be fairly consistent over time. On the other hand, once the determination has been made to recognize a distinct market area, that area may change both qualitatively and quantitatively from year to year. Therefore it is imperative that reappraisal data collection be complete.
- Each property inspection should verify the existing data for each property as recorded on the property appraisal card, record, or worksheet. Any changes from the existing records must be noted. These changes in data, or characteristics, of the property would include any and all things that may have an effect on property value. These characteristics include but are not limited to site value (location, footage, topography, agricultural usage, etc.), improvement description (construction method, quality, condition, perceived and actual age, configuration, additives, etc.), and economic or legal limitations. These characteristics form the basis of differentiation and value development in our mass appraisal Value Schedules.
- Each property has an appraisal record or "card". This record shows the current characteristics and their contributory value to the property value as a whole. During

reappraisal, these are the characteristics that must be verified, modified, and updated so that not only the property be described fully and valued completely, the market data from sale transactions can be analyzed to verify, modify, and update the characteristics value schedules.

- The previous mentioned market analysis is the method used to test the appraisal results. If all pertinent and relevant characteristics are recorded and valued, and the resulting appraisal value is not statistically consistent with a sample of market value indicators (market sales, construction cost analysis, income stream valuation), then the contributory values of one or more of the characteristics must be modified or adjusted.

### **Organization**

Field inspections are carried out by Prichard & Abbott, Inc. Field appraisers are assigned by the Pritchard & Abbott supervisor, with input and direction from the chief appraiser. They physically inspect areas required by the reappraisal cycle, check all existing data, work building permits, take photographs of improvements, draw plans of any discovered new improvements for entry into the computer, rechecks any property on which a question or problem has arisen. Other duties may be required and will be executed upon direction of the chief appraiser.

The appraisal district staff prepares and prints appraisal cards for the properties to be reappraised or rechecked. The appraisal district staff gets any building permits and blue prints for the year and enters the information and draws any improvements from the blue prints. Those appraisal cards are then given to Pritchard & Abbott Inc. field appraisers to be checked and confirmed. Pritchard & Abbott Inc. field appraisers enter any new data or changes to the property, initial and date the appraisal cards. Data entry of field work notes and sketches is performed by appraisal district staff. The staff then scans the work cards to the accounts.

The Pritchard & Abbott Inc. staff performs market analysis. Appraisal District staff gathers sales data throughout the year from deed records, sales confirmation letters from property owners, and other sources. The appraisal district staff runs ratio studies that are given to Pritchard & Abbott Inc. for the market data analysis phase. The market data is analyzed, sales data is confirmed, outliers are identified, existing classification system is reviewed, market schedules are reviewed and updated as necessary, and final market schedules are presented to the chief appraiser for discussion and application to the universe of properties.

## Calendar of Key Reappraisal Events

### 2015 Reappraisal Schedule

**October thru December: 2014**    Begin planning sales ratio studies for all areas within the CAD. Gather current sales data from sales confirmation letters, deed records and other sources.

Create the 2015 data working file. Begin data entry and maintenance changes for 2015.

Prepare information for Pritchard & Abbott to start field appraisals as provided by the reappraisal plan area for 2015, Area Two. Run appraisal cards for the reappraisal areas and recheck properties. Prepare maps for field appraisers.

Enter building permits and enter drawings. Do all field work necessary for Appraisal district staff – taking pictures, checking Hartley and Channing cities and rural areas for new improvements. Prepare any information found for Pritchard & Abbott as they are doing field appraisals.

Prepare for Ag Advisory Board to meet for the 2015 Ag Budget information.

**January to March: 2015**

Mail homestead applications, special-use valuation applications, personal property renditions, exemption applications, and any other required forms.

Continue with any assistance Pritchard & Abbott might need to complete field inspections/appraisals and begin entering any completed field notes & changes done by Pritchard & Abbott.

Begin running sales ratio reports. Compare with CAD values and sales information. Prepare sales information and sales ratios to send to Pritchard and Abbott for analysis.

**March through May:**

Continue running sales ratio reports and discuss with Pritchard & Abbott. Send any new sales information to Pritchard & Abbott.

Complete data entry of all reappraisal and maintenance changes and scan field cards to each account.

Deliver estimated certified values to entities

Finalize all field work and data collection activities. Rerun ratio studies to discuss with Pritchard & Abbott.

Discuss with Pritchard & Abbott and make decisions on any schedule changes needed for 2015 appraisals and statistically test schedules.

Execute mass appraisal/maintenance activities as required.

Prepare for mailing 2015 Notices of Appraised Value.

**May through June:**

Mail 2015 Notices of Appraised Value.

Submission of appraisal records to ARB for review and determination of protests.

Hold informal hearings with assistance from Pritchard & Abbott.

Respond to property owners' inquiries, protests, and questions from notice mailings. Assist Pritchard & Abbott with any information needed pertaining to property accounts. (i.e., work field cards, current appraisal cards and any comparable property information or sales.

**July:**

Hold ARB Hearings

Process and mail ARB orders.

Enter into computer all changes as ordered by ARB.

ARB approval of appraisal records by July 20<sup>th</sup>.

Certification of appraisal records and values to taxing units by July 25<sup>th</sup>

**As needed throughout  
the year:**

Handle any outstanding protests by scheduling ARB hearings.

### **2016 Reappraisal Schedule**

**October thru December:  
2015**

Begin planning sales ratio studies for all areas within the CAD. Gather current sales data from sales confirmation letters, deed records and other sources.

Create the 2016 data working file. Begin data entry and maintenance changes for 2016.

Prepare information for Pritchard & Abbott to start field appraisals as provided by the reappraisal plan area for 2016, Area Three. Run appraisal cards for the reappraisal areas and recheck properties. Prepare maps for field appraisers.

Enter building permits and enter drawings. Do all field work necessary for Appraisal district staff – taking pictures, checking Hartley and Channing cities and rural areas for new improvements. Prepare any information found for Pritchard & Abbott as they are doing field appraisals.

Prepare for Ag Advisory Board to meet for the 2016 Ag Budget information.

**January to March:  
2016**

Mail homestead applications, special-use valuation applications, personal property renditions, exemption applications, and any other required forms.

Continue with any assistance Pritchard & Abbott might need to complete field inspections/appraisals and begin entering any completed field notes & changes done by Pritchard & Abbott.

Begin running sales ratio reports. Compare with CAD values and sales

information. Prepare sales information and sales ratios to send to Pritchard and Abbott for analysis.

**March through May:**

Continue running sales ratio reports and discuss with Pritchard & Abbott.  
Send any new sales information to Pritchard & Abbott.

Complete data entry of all reappraisal and maintenance changes and scan field cards to each account.

Deliver estimated certified values to entities

Finalize all field work and data collection activities. Rerun ratio studies to discuss with Pritchard & Abbott.

Discuss with Pritchard & Abbott and make decisions on any schedule changes needed for 2016 appraisals and statistically test schedules.

Execute mass appraisal/maintenance activities as required.

Prepare for mailing 2016 Notices of Appraised Value.

**May through June:**

Mail 2016 Notices of Appraised Value.

Submission of appraisal records to ARB for review and determination of protests.

Hold informal hearings with assistance from Pritchard & Abbott.

Respond to property owners' inquiries, protests, and questions from notice mailings. Assist Pritchard & Abbott with any information needed pertaining to property accounts. (i.e., work field cards, current appraisal cards and any comparable property information or sales.

**July:**

Hold ARB Hearings

Process and mail ARB orders.

Enter into computer all changes as ordered by ARB.

ARB approval of appraisal records by July 20<sup>th</sup>.

Certification of appraisal records and values to taxing units by July 25<sup>th</sup>

**As needed throughout the year:**

Handle any outstanding protests by scheduling ARB hearings.



### TARGET COMPLETION DATES 2015

October 1, 2014	Begin field appraisals as set forth in reappraisal plan – all properties in Area Two: Hartley ISD within Hartley ISD boundaries and rural properties in Dalhart ISD not included in Area One. (More fully described in Three-Year Cycle, page 19)
January 2, 2015	Mail Business Personal Property Renditions Mail Agricultural 1-D-1 Applications Check with North Plains Groundwater CD for New Well Report Through 12/31/14 Mail New Homestead Exemptions to New Owners Mail New Exemptions as Required
February 15, 2015	Field Appraisal Completed – Pritchard & Abbott delivers all field Appraisal work cards to appraisal district.
May 6, 2015	Receive all other values from Pritchard & Abbott and complete data entry Of new values.
May 24, 2015	Generate Appraisal Notices
May 30, 2015	Mail Appraisal Notices
July 18, 2015	Appraisal Review Board Hearings
July 19, 2015	Appraisal Review Board Approves Appraisal Records
July 25, 2015	Chief Appraiser Certifies Appraisal Roll to Entities

### TARGET COMPLETION DATES 2016

October 1, 2015	Begin field appraisal as set forth in reappraisal plan – all properties in Area Three. Property within the boundaries of Channing ISD that are in Hartley County. The City of Channing and all rural property.
January 2, 2016	Mail Business Personal Property Renditions Mail Agricultural 1-D-1 Applications Check with North Plains Groundwater CD for New Well Report through Through 12/31/15 Mail New Homestead Exemptions to New Owners Mail New Exemptions as Required
February 13, 2016	Field Appraisal Completed – Pritchard & Abbott delivers all Field Appraisal work cards to Appraisal District.
May 7, 2016	Receive all other values from Pritchard and Abbott and complete data Entry of new values.
May 27, 2016	Generate Appraisal Notices
May 30, 2016	Mail Appraisal Notices

July 18, 2016

Appraisal Review Board Hearings

July 18, 2016

Appraisal Review Board Approves Appraisal Records

July 25, 2016

Chief Appraiser Certifies Appraisal Roll to Entities



**PRITCHARD & ABBOTT, INC.**  
**VALUATION CONSULTANTS**

## **S.B. 1652\* BIENNIAL REAPPRAISAL PLAN**

**FOR THE ANNUAL APPRAISAL FOR  
AD VALOREM TAX PURPOSES OF  
MINERAL, INDUSTRIAL, UTILITY AND  
RELATED PERSONAL PROPERTY**

**For Tax Years:**

**2015 and 2016**

**Originally Printed: July 1, 2014**

\*Senate Bill 1652 passed by the Texas Legislature, 79th Regular Session in 2005, amending Section 6.05 of the Texas Property Tax Code, by adding Subsection (i).

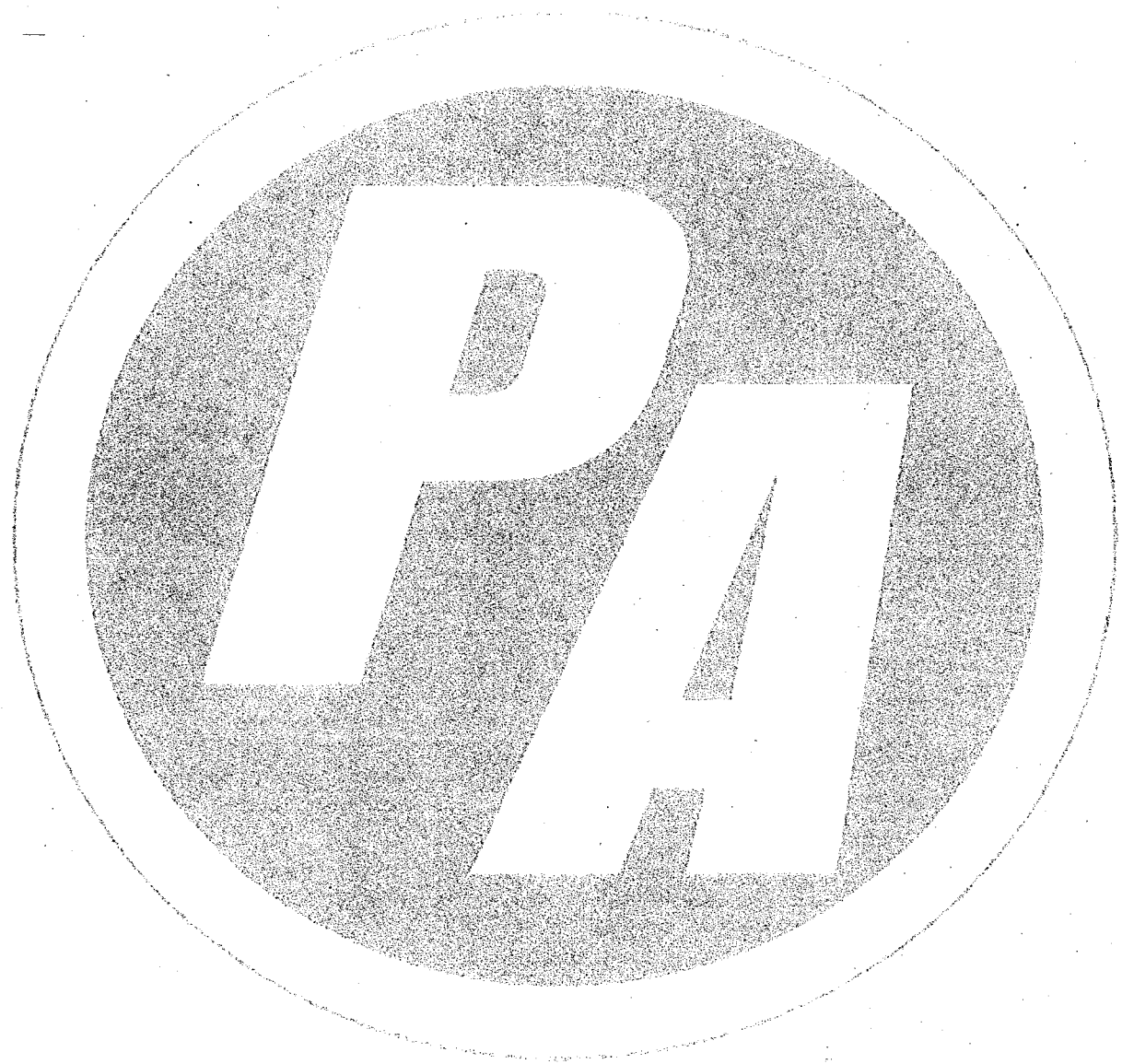


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**POLICY STATEMENT OF PRITCHARD & ABBOTT, INC., ON THE  
REAPPRAISAL OF MINERAL, INDUSTRIAL, UTILITY AND RELATED PERSONAL PROPERTY**

In 2005, the Texas Legislature, in 79<sup>th</sup> Regular Session, authorized in S.B. 1652 the amending of section 6.05 of the Texas Property Tax Code by adding Subsection (i), as follows:

*"Requires the board of directors of an appraisal district (board), to ensure adherence with generally accepted appraisal practices, to develop biennially a written plan for the periodic appraisal of all property within the boundaries of the district according to the requirements of 25.18 (Periodic Reappraisals) and requires the board to hold a public hearing to consider the proposed plan. Requires the secretary of the board, not later than the 10th day before the date of the hearing, to deliver to the presiding officer of the governing body of each taxing unit participating in the district a written notice of the date, time, and place for the hearing. Requires the board, not later than September 15 of each even-numbered year, to complete its hearings, make amendments, and by resolution finally approve the plan. Requires copies of the approved plan to be distributed to the presiding officer of the governing body of each taxing unit participating in the district and to the comptroller within 60 days of the approval date." (Bill Analysis per Senate Research Center)*

Pritchard & Abbott, Inc., (P&A), a privately held company engaged primarily, but not wholly, in the ad valorem tax valuation industry endorses Uniform Standards of Professional Appraisal Practice (USPAP) as the basis for the production of sound appraisals. Insofar as the statutory requirement to appraise groups (or a "universe") of real and personal property within an established period of time using standardized procedures--and subjecting the resulting appraisals to statistical measures--is the definition of mass appraisal, P&A subscribes to USPAP Standard 6 (Mass Appraisal, Development and Reporting) whenever applicable in the development and defense of values. When circumstances clearly dictate the use of single property appraisal procedures, P&A adheres to the spirit and intent of the remaining USPAP Standards within all appropriate, practical, and/or contractual limitations or specifications.

The USPAP definition of "appraiser" is one who is expected to perform valuation services competently and in a manner that is independent, impartial, and objective. USPAP Advisory Opinion 21 states that this expectation (by clients and intended users of appraisal reports) is the basis that creates an ethical obligation to comply with USPAP, even if not legally required.

The majority of property types that P&A typically appraises for ad valorem tax purposes are categorized as unique, complex, and or "special purpose" properties (mineral interests, industrial, utility, and related personal property). These categories of properties do not normally provide sufficient market data of reliable quality and/or quantity to support the rigorous use of all USPAP-prescribed mass appraisal mandates (Standard 6), particularly with regards to some, but not all, of the model calibration and statistical performance testing confines. However, P&A does employ elements of mass appraisal techniques with regards to the definition and identification of property characteristics and model specification and application.

Residential real estate property appraisers most frequently apply mass appraisal methods within the sales comparison (market) approach to value. Through the use of standardized data collection (i.e., actual market sales), specification and calibration of mass appraisal models, tables, and schedules are possible. Through ratio study analysis and other performance measures, a cumulative summary of valuation accuracy can thus be produced in order to calibrate the appraisal model(s). Where sufficient data of reliable quality exists, mass appraisal is also used for other types of real estate property such as farms, vacant lots, and some commercial uses (e.g., apartments, offices, and small retail).

P&A will clearly state or otherwise make known all extraordinary assumptions, limiting conditions, hypothetical assumptions, and/or jurisdictional exceptions in its appraisals as they are conveyed to our clients. The client and all intended users should be aware the appraisals are by definition "limited" versus "complete." In addition, all appraisal reports, unless otherwise contracted for by the client, will be of a "summary" nature vs. "self-contained" whereas concise explanations of appraisal methods and results are emphasized for purpose of transparency, brevity and clarity. The use of limited appraisals in conjunction with summary reports in no way implies non-compliance with USPAP. P&A believes, with its vast experience and expertise in these areas of appraisal, that all values rendered are credible, competent, uniform and consistent; and most importantly for ad valorem tax purposes, achieved in a cost-efficient and timely manner.

Per previous ASB comments under Standard 6-2(b) *[scope of work... special limiting conditions]*:

*"Although appraisers in ad valorem taxation should not be held accountable for limitations beyond their control, they are required by this specific requirement to identify cost constraints and to take appropriate steps to secure sufficient funding to produce appraisals that comply with these standards. Expenditure levels for assessment administration are a function of a number of factors. Fiscal constraints may impact data completeness and accuracy, valuation methods, and valuation accuracy. Although appraisers should seek adequate funding and disclose the impact of fiscal constraints on the mass appraisal process, they are not responsible for constraints beyond their control."*

In any event, however, it is not P&A's intent to allow constraints, fiscal or otherwise, to limit the scope of work to such a degree that the mass appraisal results are not credible within the context of the intended use(s) of the appraisal.

## PREAMBLE

The purpose of USPAP is to establish requirements and conditions for ethical, thorough, and transparent property valuation services. Valuation services pertain to all aspects of property value and include services performed by appraisers and other professionals including attorneys, accountants, insurance estimators, auctioneers, or brokers. Valuation services include appraisal, appraisal review, and appraisal consulting. The primary intent of these Standards is to promote and maintain a high level of public trust in professional appraisal practice.

It is essential that professional appraisers develop and communicate their analyses, opinions, and conclusions to intended users of their services in a manner that is meaningful and not misleading. The importance of the role of the appraiser places ethical obligations upon those who serve in this capacity. These USPAP Standards reflect the current standards of the appraisal profession.

These Standards are for both appraisers and users of appraisal services. To maintain a high level of professional practice, appraisers observe these Standards. However, these Standards do not in themselves establish which individuals or assignments must comply. The Appraisal Foundation nor its Appraisal Standards Board is not a government entity with the power to make, judge, or enforce law. Compliance with USPAP is only required when either the service or the appraiser is obligated to comply by law or regulation, or by agreement with the client or intended users. When not obligated, individuals may still choose to comply.

USPAP addresses the ethical and performance obligations of appraisers through DEFINITIONS, Rules, Standards, Standards Rules, and Statements. USPAP Standards deal with the procedures to be followed in performing an appraisal or appraisal review and the manner in which each is communicated. A brief description of the USPAP Standards are as follows:

- **Standards Rules 1 and 2:** establish requirements for the development and communication of a real property appraisal.
- **Standards Rule 3:** establishes requirements for the development and communication of an appraisal review.
- **Standards Rules 4 and 5:** retired in 2014.
- **Standards Rule 6:** establishes requirements for the development and communication of a mass appraisal.
- **Standards Rules 7 and 8:** establish requirements for the development and communication of a personal property appraisal.
- **Standards Rules 9 and 10:** establish requirements for the development and communication of a business or intangible asset appraisal.

Section 23.01(b) [Appraisals Generally] of the Texas Property Tax Code states:

*"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...." (underline added for emphasis)*

Consequently, USPAP Standards Rule 6 is assumed to be the applicable standard for ad valorem tax purposes in Texas, if mass appraisal practices are in fact being used to appraise the subject property. USPAP Advisory Opinion 32 suggests several USPAP standards other than Standard 6 can or should apply in ad valorem tax work. However, it appears that an appraiser engaged in ad valorem tax work in Texas is not specifically required by law to follow these USPAP standards if in fact mass appraisal practices have not been used to appraise the subject property. In this case it could be deemed appropriate to invoke the Jurisdictional Exception Rule which is applicable when there is a contradiction between the requirements of USPAP and the law or regulation of a jurisdiction. Please see the P&A Policy Statement on USPAP as provided elsewhere in this report for a more detailed discussion regarding this matter.



## ETHICS RULE

Because of the fiduciary responsibilities inherent in professional appraisal practice, the appraiser must observe the highest standards of professional ethics. This Ethics Rule is divided into three sections:

- Conduct;
- Management;
- Confidentiality.

This Rule emphasizes the personal obligations and responsibilities of the individual appraiser. However, it should be noted that groups and organizations *which are comprised of individual appraisers engaged in appraisal practice* effectively share the same ethical obligations. To the extent the group or organization does not follow USPAP Standards when legally required, individual appraisers should take steps that are appropriate under the circumstances to ensure compliance with USPAP.

Compliance with these Standards is required when either the service or the appraiser is obligated by law or regulation, or by agreement with the client or intended users, to comply. Compliance is also required when an individual, by choice, represents that he or she is performing the service as an appraiser.

An appraiser must not misrepresent his or her role when providing valuation services that are outside of appraisal practice.

Honesty, impartiality, and professional competency are required of all appraisers under USPAP Standards. To document recognition and acceptance of his or her USPAP-related responsibilities in communicating an appraisal, appraisal review, or appraisal consulting assignment completed under USPAP, an appraiser is required to certify compliance with these Standards.

### CONDUCT

An appraiser must perform assignments with impartiality, objectivity, and independence, and without accommodation of personal interests.

An appraiser must perform ethically and competently in accordance with USPAP and not engage in conduct that is unlawful, unethical, or improper. An appraiser who could reasonably be perceived to act as a disinterested third party in rendering an unbiased appraisal, review, or consulting service must perform assignments with impartiality, objectivity, and independence and without accommodation of personal interests; in short, the appraiser must not perform an assignment with bias.

An appraiser must not advocate the cause or interest of any party or issue, or accept an assignment that includes the reporting of predetermined opinions and conclusions.

An appraiser must not misrepresent his or her role when providing valuation services that are outside of appraisal practice, must not engage in criminal conduct, and must not perform an appraisal assignment in a grossly negligent manner.

An appraiser is required to avoid any action that could be considered misleading or fraudulent. In particular, it is unethical for an appraiser to use or communicate a misleading or fraudulent report or to knowingly permit an employee or other person to communicate a misleading or fraudulent report.

An appraiser must not use or rely on unsupported conclusions relating to characteristics such as race, color, religion, national origin, gender, marital status, familial status, age, receipt of public assistance income, handicap, or an unsupported conclusion that homogeneity of such characteristics is necessary to maximize value.

If known prior to accepting an assignment, and/or if discovered at any time during the assignment, an appraiser must disclose to the client, and in each subsequent report certification:

- any current or prospective interest in the subject property or parties involved; and
- any services regarding the subject property performed by the appraiser within the three year period immediately preceding acceptance of the assignment, as an appraiser or in any other capacity.

The appraiser can agree with the client to keep the mere occurrence of a prior appraisal assignment confidential. If an appraiser has agreed with the client not to disclose that he or she has appraised a property, the appraiser must decline all subsequent assignment that fall with the three year period. In assignments in which there is no report, only the initial disclosure to the client is required.

Presumably all parties in ad valorem tax appraisal will be aware of the ongoing yearly nature of the appraisal assignments performed by valuation consulting firms like Pritchard & Abbott, Inc.--i.e., it will not be confidential-- so that this particular conduct instruction is more or less a moot point (regarding the three year period discussed) if the prior service is in fact the ad valorem tax appraisals performed in previous tax years.

### MANAGEMENT

The payment of a fee, commission, or a thing of value by the appraiser in connection with the procurement of an assignment must be disclosed. This disclosure must appear in the certification and in any transmittal letter in which conclusions of value are stated; however, the disclosure of the amount paid is not required. Intra-company payments to employees of groups or organizations involved in appraisal practice for business development do not require disclosure.

It is unethical for an appraiser to accept compensation for performing an assignment when it is contingent upon the reporting of a predetermined result, a direction in assignment results that favors the cause of the client, the amount of a value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the appraiser's opinions and specific to the assignment's purpose.

Advertising for or soliciting assignments in a manner that is false, misleading, or exaggerated is unethical. Decisions regarding finder or referral fees, contingent compensation, and advertising may not be the responsibility of an individual appraiser, but for a particular assignment it is the responsibility of the individual appraiser to ascertain that there has been no breach of ethics, that the assignment consulting assignment has been prepared in accordance with USPAP Standards, and that the report can be properly certified when required by USPAP Standards Rules 2-3, 3-3, 5-3, 6-9, 8-3, or 10-3.

An appraiser must affix, or authorize the use of, his or her signature to certify recognition and acceptance of his or her USPAP responsibilities in an appraisal, appraisal review, or appraisal consulting assignment. An appraiser may authorize the use of his or her signature only on an assignment-by-assignment basis.

In addition, an appraiser must not affix the signature of another appraiser without his or her consent. An appraiser must exercise due care to prevent unauthorized use of his or her signature. However, an appraiser exercising such care is not responsible for unauthorized use of his or her signature.

### CONFIDENTIALITY

An appraiser must protect the confidential nature of the appraiser-property owner relationship.

An appraiser must act in good faith with regard to the legitimate interests of the client in the use of confidential information and in the communication of assignment results.

An appraiser must be aware of, and comply with, all confidentiality and privacy laws and regulations applicable in an assignment.

An appraiser must not disclose confidential factual data obtained from a property owner to anyone other than:

1. The client;
2. Persons specifically authorized by the client;

3. State appraiser regulatory agencies;
4. Third parties as may be authorized by due process of law; or
5. A duly authorized professional peer review committee except when such disclosure to a committee would violate applicable law or regulation.

It is unethical for a member of a duly authorized professional peer review committee to disclose confidential information presented to the committee.

When all confidential elements of confidential information are removed through redaction or the process of aggregation, client authorization is not required for the disclosure of the remaining information, as modified.

## RECORD KEEPING RULE

An appraiser must prepare a workfile for each appraisal, appraisal review, and consulting assignment. The workfile must include the identity, by name and type, of any intended users; true copies of any written reports, summaries of any oral reports or testimony, and all other data, information, and documentation necessary to support the appraiser's opinions and conclusions and to show compliance with this rule and all other applicable USPAP Standards.

A workfile preserves evidence of the appraiser's consideration of all applicable data and statements required by USPAP and other information as may be required to support the findings and conclusions of the appraiser.

A photocopy or an electronic copy of the entire actual written appraisal, review, or consulting report sent or delivered to a property owner or review committee satisfies the requirements of a true copy. Care should be exercised in the selection of the form, style, and type of medium for written records, which may be handwritten and informal, to ensure they are retrievable by the appraiser throughout the applicable retention period.

A workfile must be in existence prior to and contemporaneous with the issuance of a written or oral report. A written summary of an oral report must be added to the workfile within a reasonable time after the issuance of the oral report.

A workfile must be made available by the appraiser when required by due process of law. An appraiser must have custody of his or her workfile, or make appropriate workfile retention, access, and retrieval arrangements with the party having custody of the workfile. An appraiser having custody of a workfile must allow other appraisers with workfile obligations related to an assignment appropriate access and retrieval for the purpose of:

- submission to state appraiser regulatory agencies;
- compliance with due process of law;
- submission to a duly authorized professional peer review committee; or
- compliance with retrieval arrangements.

An appraiser who willfully or knowingly fails to comply with the obligations of this Record Keeping Rule is in violation of the Ethics Rule.

## SCOPE OF WORK RULE

For each appraisal, appraisal review, and appraisal consulting assignment, an appraiser must:

1. Identify the problem to be solved;
2. Determine and perform the scope of work necessary to develop credible assignment results; and
3. Disclose the scope of work in the report.

An appraiser must properly identify the problem to be solved in order to determine the appropriate scope of work. The appraiser must be prepared to demonstrate that the scope of work is sufficient to produce credible assignment results.

Scope of work includes, but is not limited to:

- the extent to which the property is identified;
- the extent to which tangible property is inspected;
- the type and extent of data researched; and
- the type and extent of analyses applied to arrive at opinions or conclusions.

Appraisers have broad flexibility and significant responsibility in determining the appropriate scope of work for an appraisal, appraisal review, and appraisal consulting assignment. Credible assignment results require support by relevant evidence and logic. The credibility of assignment results is always measured in the context of the intended use.

### PROBLEM IDENTIFICATION

An appraiser must gather and analyze information about those assignment elements that are necessary to properly identify the appraisal, appraisal review or appraisal consulting problem to be solved. The assignment elements necessary for problem identification are addressed in the Standards Rule 6-2:

- client and any other intended users;
- intended use of the appraiser's opinions and conclusions;
- type and definition of value;
- effective date of the appraiser's opinions and conclusions;
- subject of the assignment and its relevant characteristics; and
- assignment conditions.

This information provides the appraiser with the basis for determining the type and extent of research and analyses to include in the development of an appraisal. Similar information is necessary for problem identification in appraisal review and appraisal consulting assignments. Assignment conditions include:

- assumptions;
- extraordinary assumptions;
- hypothetical conditions;
- laws and regulations;
- jurisdictional exceptions; and
- other conditions that affect the scope of work.

### SCOPE OF WORK ACCEPTABILITY

The scope of work must include the research and analyses that are necessary to develop credible assignment results. The scope of work is acceptable when it meets or exceeds:

- the expectations of parties who are regularly intended users for similar assignments; and
- what an appraiser's peers' actions would be in performing the same or a similar assignment.

Determining the scope of work is an ongoing process in an assignment. Information or conditions discovered during the course of an assignment might cause the appraiser to reconsider the scope of work. An appraiser must be prepared to support the decision to exclude any investigation, information, method, or technique that would appear relevant to the client, another intended user, or the appraiser's peers.

An appraiser must not allow assignment conditions to limit the scope of work to such a degree that the assignment results are not credible in the context of the intended use. In addition, the appraiser must not allow the intended use of an assignment or a client's objectives to cause the assignment results to be biased.

#### DISCLOSURE OBLIGATIONS

The report must contain sufficient information to allow intended users to understand the scope of work performed. Proper disclosure is required because clients and other intended users may rely on the assignment results. Sufficient information includes disclosure of research and analyses performed or not performed.

## JURISDICTIONAL EXCEPTION RULE

If any applicable law or regulation precludes compliance with any part of USPAP, only that part of USPAP becomes void for that assignment. When compliance with USPAP is required by federal law or regulation, no part of USPAP can be voided by a law or regulation of a state or local jurisdiction. *When an appraiser properly follows this Rule in disregarding a part of USPAP, there is no violation of USPAP.*

In an assignment involving a jurisdictional exception, an appraiser must:

- identify the law or regulation that precludes compliance with USPAP;
- comply with that law or regulation;
- clearly and conspicuously disclose in the report the part of USPAP that is voided by that law or regulation; and
- cite in the report the law or regulation requiring this exception to USPAP compliance.

The purpose of the Jurisdictional Exception Rule is strictly limited to providing a saving or severability clause intended to preserve the balance of USPAP if one or more of its parts are determined as contrary to law or public policy of a jurisdiction. By logical extension, there can be no violation of USPAP by an appraiser who disregards, with proper disclosure, only the part or parts of USPAP that are void and of no force and effect in a particular assignment by operation of legal authority.

It is misleading for an appraiser to disregard a part or parts of USPAP as void and of no force and effect in a particular assignment without identifying the part or parts disregarded and the legal authority justifying this action in the appraiser's report.

"Law" includes constitutions, legislative and court-made law, and administrative rules (such as from the Office of the Texas Comptroller of Public Accounts) and ordinances. "Regulations" include rules or orders having legal force, issued by an administrative agency. Instructions from a client or attorney do not establish a jurisdictional exception.

A jurisdictional exception prevalent in Texas is that appraisers are seeking to establish "fair market value" as defined by the Texas Property Tax Code instead of "market value" as found in the USPAP definitions section.

## MASS APPRAISAL, DEVELOPMENT AND REPORTING (General Discussion)

In developing a mass appraisal, an appraiser must be aware of, understand, and correctly employ those recognized methods and techniques necessary to produce and communicate credible mass appraisals.

Standard 6 applies to all mass appraisals of real and personal property regardless of the purpose or use of such appraisals. It is directed toward the substantive aspects of developing and communicating competent analyses, opinions, and conclusions in the mass appraisal of properties, whether real property or personal property. Mass appraisals can be prepared with or without computer assistance. The Jurisdictional Exception Rule may apply to several sections of Standard 6 because ad valorem tax administration is subject to various state, county, and municipal laws. The reporting and jurisdictional exceptions applicable to public mass appraisals prepared for purposes of ad valorem taxation do not apply to mass appraisals prepared for other purposes.

A mass appraisal includes:

- identifying properties to be appraised;
- defining market areas of consistent behavior that applies to properties;
- identifying characteristics (supply and demand) that affect the creation of value in that market area;
- developing a model structure that reflects the relationship among the characteristics affecting value in the market area;
- calibrating the model structure to determine the contribution of the individual characteristics affecting value;
- applying the conclusions reflected in the model to the characteristics of the properties being appraised; and
- reviewing the mass appraisal results.

**The Jurisdictional Exception Rule may apply to several sections of Standard 6 because ad valorem tax administration is subject to various state, county, and municipal laws.**

As previously stated in the P&A Policy Statement (pages 2 and 3 of this report), it may not be possible or practicable for all the mass appraisal attributes listed above to be rigorously applied to the many types of complex and/or unique properties that P&A typically appraises. Often there are contractual limitations on the scope of work needed or required. More prevalently, these types of properties do not normally provide a reliable database of market transactions (or details of transactions) necessary for statistically supportable calibration of appraisal models and review of appraisal results. Generally these two functions are effectively accomplished through annual extended review meetings with taxpayers (and clients) who provide data, sometimes confidentially, that allows for appraisal models to be adjusted where necessary. Nevertheless, and not withstanding whether P&A implicitly or explicitly employs or reports all attributes listed above, in all cases P&A at the minimum employs tenants of "generally accepted appraisal methods" which are the genesis of USPAP Standards.

Per USPAP guidelines, P&A will make known all departures and jurisdictional exceptions when invoked (if an appraisal method or specific requirement is applicable but not necessary to attain credible results in a particular assignment).

The various sections of Standard 6 are briefly summarized below:

- **Standard 6-1:** Establishes the appraiser's technical and ethical framework. Specifically, appraisers must recognize and use established principles, methods and techniques of appraisal in a careful manner while not committing substantial errors of fact or negligence that would materially affect the appraisal results and not give a credible estimate of fair market value. To this end appraisers must continuously improve his or her skills to maintain proficiency and keep abreast of any new developments in the real and personal property appraisal profession. This Standards Rule does not imply that competence requires perfection, as perfection is impossible to attain. Instead, it requires appraisers to employ every reasonable effort with regards to due diligence and due care.
- **Standard 6-2:** Defines the introductory framework requirements of developing a mass appraisal, focusing on the identification and/or definition of: client(s), intended users, effective date, scope of work, extraordinary assumptions,



hypothetical conditions, the type and definition of value being developed (typically "fair market value" for ad valorem tax purposes), characteristics of the property being appraised in relation to the type and definition of value and intended use, the characteristics of the property's market, the property's real or personal attributes, fractional interest applicability, highest and best use analysis along with other land-related considerations, and any other economic considerations relevant to the property.

- **Standard 6-3:** Defines requirements for developing and specifying appropriate mass appraisal data and elements applicable for real and personal property. For real property, the data and elements include: existing land use regulations, reasonably probable modification of such regulations, economic supply and demand, the physical adaptability of the real estate, neighborhood trends, and highest and best use analysis. For personal property, the relevant data and elements include: identification of industry trends, trade level, highest and best use, and recognition of the appropriate market consistent with the type and definition of value.
- **Standard 6-4:** Further defines requirements for developing mass appraisal models, focusing on development of standardized data collection forms, procedures, and training materials that are used uniformly on the universe of properties under consideration. This rule specifies that appraisers employ recognized techniques for specifying and calibrating mass appraisal models. Model specification is the formal development of a model in a statement or mathematical equation, including all due considerations for physical, functional, and external market factors as they may affect the appraisal. These models must accurately represent the relationship between property value and supply and demand factors, as represented by quantitative and qualitative property characteristics. Models may be specified incorporating the income, market, and/or cost approaches to value and may be tabular, mathematical, linear, nonlinear, or any other structure suitable for representing the observable property characteristics. Model calibration refers to the process of analyzing sets of property and market data to determine the specific parameters of a model.
- **Standard 6-5:** Defines requirements for collection of sufficient factual data, in both qualitative and quantitative terms, necessary to produce credible appraisal results. The property characteristics collected must be contemporaneous with the effective date of the appraisal. The data collection program should incorporate a quality control procedure, including checks and audits of the data to ensure current and consistent records. This rule also calls for calls for an appraiser, in developing income and expense statement and cashflow projections, to weigh historical information and trends, current market factors affecting such trends, and reasonably anticipated events, such as competition from developments either planned or under construction. Terms and conditions of any leases should be analyzed, as well as the need for and extent of any physical inspection of the properties being appraised.
- **Standard 6-6:** Defines requirements for application of a calibrated model to the property being appraised. This rule calls for: the appraiser to recognize methods or techniques based on the cost, market, and income approaches for improved parcels; the appraiser the value sites by recognized methods or techniques such as allocation method, abstraction method, capitalization of ground rent, and land residual; the appraiser to develop value of leased fee or leasehold estates with consideration for terms and conditions of existing leases, and, when applicable by law, as if held in fee simple whereas market rents are substituted for actual contract rents; the appraiser to analyze the effect on value, if any, of the assemblage of the various parcels, divided interests, or component parts of a property; the appraiser to analyze anticipated public or private improvements located on or off the site, and analyze the effect on value, if any, of such anticipated improvements to the extent they are reflected in market actions.
- **Standard 6-7:** Defines the reconciliation process of a mass appraisal. Specifically, appraisers must analyze the results and/or applicability of the various approaches used while ensuring that, on an overall basis, standards of reasonableness and accuracy are maintained with the appraisal model selected (underline added for emphasis). It is implicit in mass appraisal that, even when properly specified and calibrated models are used, some individual value conclusions will not meet standards of reasonableness, consistency, and accuracy.
- **Standard 6-8:** Defines requirements of a mass appraisal written report (elements of which are further detailed in the next three sections of this report that discuss P&A appraisal procedures with regards to specific categories of property).
- **Standard 6-9:** Defines requirements for appraiser certification of the mass appraisal written report.

**REAPPRAISAL PLAN OF MINERAL, INDUSTRIAL, UTILITY AND RELATED PERSONAL PROPERTY  
PRITCHARD & ABBOTT, INC.  
TAX YEARS 2015 AND 2016**

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The following sections of this report discuss in detail the various elements of the mass appraisal written report as required by USPAP Standard 6-8, with regards to P&A appraisal of Mineral Interests, Industrial-Utility-Personal Property, and Real Estate.

## REAPPRAISAL OF MINERAL INTERESTS

*Note: This section, in conjunction with any attached or separately provided P&A-generated appraisal reports specific to the subject property or properties, constitutes the "mass appraisal written report" as required by USPAP Standards Rule 6-8. USPAP Standards Rule 6-9 (certification) can be found at the end of this report. USPAP Standards Rules 6-1 through 6-7 (instructions and explanations regarding the development, application, and reconciliation of mass appraisal values), as they apply to P&A mass appraisal procedures, are discussed below. USPAP DOES NOT DICTATE THE FORM, FORMAT, OR STYLE OF APPRAISAL REPORTS, WHICH ARE FUNCTIONS OF THE NEEDS OF USERS AND PROVIDERS OF APPRAISAL SERVICES. USPAP ALSO DOES NOT MANDATE THAT EACH APPRAISAL REPORT BE LENGTHY AND FULL OF DISCLAIMERS. Readers should note that all P&A reports, unless stated otherwise, are of a "summary" nature versus "self-contained," whereas additional documentation and detail may be available per certain Texas Property Tax Code provisions.*

### INTRODUCTION

**Definition of Appraisal Responsibility (Scope of Effort):** The Mineral Valuation Department of Pritchard & Abbott, Inc. ("P&A" hereinafter), is responsible for developing credible values for mineral interests (full or fractional percentage ownership of oil and gas leasehold interest, the amount and type of which are legally and/or contractually created and specified through deeds and leases, etal.) associated with producing (or capable of producing) leases. Mineral interests are typically considered real property because of their derivation from the bundle of rights associated with original fee simple ownership of land. Typically all the mineral interests that apply to a single producing lease are consolidated by type (working vs. royalty) with each type then appraised for full value which is then distributed to the various fractional decimal interest owners prorata to their individual type and percentage amount.

P&A's typical client is a governmental entity charged with appraisal responsibility for ad valorem tax purposes, although other types of clients (private businesses, individuals, etc.) occasionally contract for appraisal services which are strictly for various non-ad valorem tax purposes so that no conflicts of interest are created with P&A's core ad valorem tax work.

Intended users of our reports are typically the client(s) for which we are under direct contract and taxpayers or their agents who own and/or represent the subject property being appraised. Potential other users include parties involved in adjudication of valuation disputes (review board members, lawyers, judges, etc.), governmental agencies which periodically review our appraisals for various statutory purposes (such as the Texas Comptroller's Office) and private parties who may obtain copies of our appraisals through Open Records Requests made to governmental agencies.

*This section of P&A's Biennial Reappraisal Plan is not applicable to any mineral or mineral interest property that an appraisal district appraises outside of P&A's appraisal services, in which case the appraisal district's overall Biennial Reappraisal Plan should be referenced.*

P&A makes the **Extraordinary Assumption** that all properties appraised for ad valorem tax purposes are marketable whereas ownership and title to property are free of encumbrances and other restrictions that would affect fair market value to an extent not obvious to the general marketplace. If and/or when we are made aware of any encumbrances, etc., these would be taken into account in our appraisal in which case the extraordinary assumption stated above would be revoked.

P&A is typically under contract to determine current market value or "fair market value" of said mineral interests. Fair market value is typically described as the price at which a property would sell for if:

- exposed in the open market with a reasonable time for the seller to find a purchaser;
- both the buyer and seller know of all the uses and purposes to which the property is, or can be, adapted and of the enforceable restrictions on its use; and

- both the buyer and seller seek to maximize their gains and neither is in a position to take advantage of the exigencies of the other. [Exigencies are pressing or urgent conditions that leave one party at a disadvantage to the other.]

For ad valorem tax purposes the effective date is usually legislatively specified by the particular State in which we are working - for example, in Texas the lien date is January 1 per the Texas Property Tax Code. For ad valorem tax purposes, the date of the appraisals and reports are typically several months past the effective date, thereby leaving open the possibility that a retrospective approach is appropriate under limited and prescribed circumstances (information after the effective date being applicable only if it confirms a trend or other appraisal condition that existed and was generally known as of the effective date).

P&A believes this section of this report, in conjunction with any attached or separately provided P&A-generated report(s), meets the USPAP definition of "typical practice"; i.e., it satisfies a level of work that is consistent with:

- the expectations of participants in the market for the same or similar appraisal services; and
- what P&A's peers' actions would be in performing the same or similar appraisal services in compliance with USPAP.

**Legal and Statutory Requirements:** In Texas, the provisions of the Texas Property Tax Code and other relevant legislative measures involving appraisal administration and procedures control the work of P&A as an extension of the Appraisal District. Other states in which P&A is employed will have similar controlling legislation, regulatory agencies, and governmental entities. P&A is responsible for appraising property on the basis of its fair market value as of the stated effective date (January 1 in Texas) for ad valorem tax purposes for each taxing unit that imposes ad valorem taxes on property in the contracted Appraisal District. All mineral properties (interests) are reappraised annually. The definition of Fair Market Value is provided and promulgated for use in ad valorem tax work in Texas by the Texas Property Tax Code, and therefore as a **Jurisdictional Exception** supercedes the definition of "market value" as found in USPAP definitions.

NOTE: IN TEXAS, P&A BELIEVES THE PROPERTY BEING APPRAISED AND PLACED ON THE TAX ROLL IS THE INTEREST AND NOT THE OIL OR GAS MINERAL ITSELF, PER PROPERTY TAX CODE SECTION 1.04(2)(F). WHILE OIL AND GAS RESERVES CERTAINLY HAVE VALUE, THE FACT IS THAT IT IS THE INTERESTS IN THESE MINERALS THAT ARE BOUGHT AND SOLD, NOT THE MINERALS THEMSELVES. THE SALE OF MINERALS AS THEY ARE EXTRACTED FROM THE SUBSURFACE OF THE LAND WHERE THEY RESIDE AS MINERALS IN PLACE "MONETIZES" THE INTEREST AND THUS GIVES THE INTEREST ITS VALUE. WHENEVER P&A REFERS TO "MINERAL PROPERTIES" IN THIS REPORT OR IN ANY OTHER SETTING, IT IS THE MINERAL INTEREST, AND NOT THE MINERAL ITSELF, THAT IS THE SUBJECT OF THE REFERENCE.

**Administrative Requirements:** P&A endorses the principals of the International Association of Assessing Officers (IAAO) regarding its appraisal practices and procedures. P&A also endorses, and follows when possible, the standards promulgated by the Appraisal Foundation known as the Uniform Standards of Professional Appraisal Practice (USPAP). In all cases where IAAO and/or USPAP requirements cannot be satisfied for reasons of practicality or irrelevancy, P&A subscribes to "generally accepted appraisal methods and techniques" so that its value conclusions are credible and defensible. P&A submits annual or biannual contract bids to the Appraisal District Board of Directors or the Office of the Chief Appraiser and is bound to produce appraisal estimates on mineral properties within the cost constraints of said bid. Any appraisal practices and procedures followed by P&A not explicitly defined or allowed through IAAO or USPAP requirements are specified by the Texas Property Tax Code or at the specific request or direction of the Office of the Chief Appraiser.

#### Appraisal Resources

**Personnel:** The Mineral Valuation Division staff consists of competent Petroleum Engineers, Geologists, and Appraisers. All personnel are Registered Professional Appraisers with the State of Texas, or are progressing towards this designation within the allowable time frames prescribed by the Texas Department of Licensing and Regulation (TDLR) and/or other licensing and regulatory agencies as applicable.

**Data:** For each mineral property a common set of data characteristics (i.e. historical production, price and expense data) is collected from various sources and entered into P&A's mainframe computer system. Historical production data and price data is available through state agencies (Texas Railroad Commission, Texas Comptroller, et al.) or private firms who gather, format and repackage such data for sale commercially. Each property's characteristic data drives the computer-assisted mass appraisal approach to valuation.

**Information Systems:** The mainframe systems are augmented by the databases that serve the various in-house and 3<sup>rd</sup>-party applications on desktop personal computers. In addition, communication and dissemination of appraisals and other information is available to the taxpayer and client through electronic means including internet and other phone-line connectivity. The appraiser supervising any given contract fields many of the public's questions or redirects them to the proper department personnel.

### VALUATION APPROACH (MODEL SPECIFICATION)

**Concepts of Value:** The valuation of oil and gas properties is not an exact science, and exact accuracy is not attainable due to many factors. Nevertheless, standards of reasonable performance do exist, and there are usually reliable means of measuring and applying these standards.

Petroleum properties are subject to depletion, and capital investment must be returned before economic exhaustion of the resource (mineral reserves). The examination of petroleum properties involves understanding the geology of the resource (producing and non-producing), type of reservoir energy, the methods of secondary and enhanced recovery (if applicable), and the surface treatment and marketability of the produced petroleum product(s).

Evaluation of mineral properties is a continuous process; the value as of the lien date merely represents a "snapshot" in time. The potential value of mineral interests derived from sale of minerals to be extracted from the ground change with mineral price fluctuation in the open market, changes in extraction technology, costs of extraction, and other variables such as the value of money.

#### Approaches to Value for Petroleum Property

**Cost Approach:** The use of cost data in an appraisal for market value is based upon the economic principle of substitution. The cost approach typically derives value by a model that begins with replacement cost new (RCN) and then applies depreciation in all its forms (physical depreciation, functional and economic obsolescence). This method is difficult to apply to oil and gas properties since lease acquisition and development may bear no relation to present worth. Though very useful in the appraisal of many other types of properties, the cost approach is not readily applicable to mineral properties. [Keep in mind that the property actually being appraised is the mineral interest and not the oil and gas reserves themselves. Trying to apply the cost approach to evaluation of mineral interests is like trying to apply the cost approach to land; it is a moot point because both are real properties that are inherently non-replaceable.] As a general rule, and for the reasons stated above, Pritchard & Abbott, Inc., does not employ the cost approach in the appraisal of mineral interests.

**Market Approach:** This approach may be defined as one which uses data available from actual transactions recorded in the market place itself; i.e., sales of comparable properties from which a comparison to the subject property can be made. Ideally, this approach's main advantage involves not only an opinion but an opinion supported by the actual spending of money. Although at first glance this approach seems to more closely incorporate the aspects of fair market value per its classical definition, there are two factors that severely limit the usefulness of the market approach for appraising oil and gas properties. First, oil and gas property sales data is seldom disclosed (in non-disclosure states such as Texas); consequently there is usually a severe lack of market data sufficient for meaningful statistical analysis. Second, all conditions of each sale must be known and carefully investigated to be sure one does have a comparative indicator of value per fair market value perquisites.

Many times when these properties do change hands, it is generally through company mergers and acquisitions where other assets in addition to oil and gas reserves are involved; this further complicates the analysis whereby a total purchase price must be allocated to the individual components - a speculative and somewhat arbitrary task at best. In the case of oil and gas

properties, a scarcity of sales requires that every evidence of market data be investigated and analyzed. Factors relative to the sale of oil and gas properties are:

- current production and estimated declines forecast by the buyer;
- estimated probable and potential reserves;
- general lease and legal information which defines privileges or limitation of the equity sold;
- undeveloped potential such as secondary recovery prospects;
- proximity to other production already operated by the purchaser;
- contingencies and other cash equivalents; and
- other factors such as size of property, gravity of oil, etc.

In the event that all these factors are available for analysis, the consensus effort would be tantamount to performing an income approach to value (or trying to duplicate the buyer's income approach to value), thereby making the market approach somewhat moot in its applicability. As a general rule, and for the reasons stated above, Pritchard & Abbott, Inc., rarely employs a rigorous application of the market approach in the appraisal of mineral interests.

**Income Approach:** This approach to value most readily yields itself to the appraisal of mineral interests. Data is readily available whereby a model can be created that reasonable estimates a future income stream to the property. This future income may then be converted (discounted) into an estimate of current value. Many refer to this as a capitalization method, because capitalization is the process of converting an income stream into a capital sum (value). As with any method, the final value is no better than the reliability of the input data. The underlying assumption is that people purchase the property for the future income the property will yield. If the land or improvements are of any residual value after the cessation of oil and gas production, that value should also be included (if those components are also being appraised).

The relevant income that should be used is the expected future net income. Assumptions of this method are:

- Past income and expenses are not a consideration, except insofar as they may be a guide to estimating future net income.
- That the producing life as well as the reserves (quantity of the minerals) are estimated for the property.
- Future income is less valuable than current income, and so future net income must be discounted to make it equivalent to the present income. This discount factor reflects the premium of present money over future money, i.e., interest rate, liquidity, investment management, and risk.

As a general rule, and for the reasons stated above, Pritchard & Abbott, Inc., relies predominantly on the income approach to value in the appraisal of mineral interests.

## DATA COLLECTION/VALIDATION

**Sources of Data:** The main source of P&A's property data is data from the Railroad Commission of Texas as reported by operators. As a monthly activity, the data processing department receives data tapes or electronic files which have updated and new well and production data. Other discovery tools are fieldwork by appraisers, financial data from operators, information from chief appraisers, tax assessors, trade publications and city and local newspapers. Other members of the public often provide P&A information regarding new wells and other useful facts related to property valuation.

Another crucial set of data to obtain is the ownership of these mineral interests. Typically a mineral lease is fractionated and executed with several if not many owners. This information is typically requested (under a promise of confidentiality concerning owners' personal information) from pipeline purchasers and/or other entities (such as operators) who have the responsibility of disbursing the income to the mineral interest owners. Another source of ownership information is through the taxpayers themselves who file deeds of ownership transfer and/or correspond with P&A or the appraisal district directly.

**Data Collection Procedures:** Electronic and field data collection requires organization, planning and supervision of the appraisal staff. Data collection procedures for mineral properties are generally accomplished globally by the company; i.e., production and price data for the entire state is downloaded at one time into the computer system. Appraisers also

individually gather and record specific and particular information to the appraisal file records, which serves as the basis for the valuation of mineral properties. P&A is divided into four district offices covering different geographic areas. Each office has a district manager, appraisal and ownership maintenance staff, and clerical staff as appropriate. While overall standards of performance are established and upheld for the various district offices, quality of data is emphasized as the goal and responsibility of each appraiser.

## **VALUATION ANALYSIS (MODEL CALIBRATION)**

Appropriate revisions and/or enhancements of schedules or discounted cash flow software are annually made and then tested prior to the appraisals being performed. Calibration typically involves performing multiple discounted cash flow tests for leases with varying parameter input to check the correlation and relationship of such indicators as: Dollars of Value Per Barrel of Reserves; Dollars of Value Per Daily Average Barrel Produced; Dollars of Expense Per Daily Average Barrel Produced; Years Payout of Purchase Price (Fair Market Value). In a more classical calibration procedure, the validity of values by P&A's income approach to value is tested against actual market transactions, if and when these transactions and verifiable details of these transactions are disclosed to P&A. Of course these transactions must be analyzed for meeting all requisites of fair market value definition. Any conclusions of this analysis are then compared to industry benchmarks for reasonableness before being incorporated into the calibration procedure.

## **INDIVIDUAL VALUE REVIEW PROCEDURES**

Individual property values are reviewed several times in the appraisal process. P&A's discounted cashflow software dynamically generates various benchmark indicators that the appraiser reviews concurrent with the value being generated. These benchmarks often prompt the appraiser to reevaluate some or all of the parameters of data entry so as to arrive at a value more indicative of industry standards. Examples of indicators are dollars of value per barrel of oil reserve, years payout, etc. In addition to appraiser review, taxpayers are afforded the opportunity to review the appraised values, either before or after Notices of Appraised Value are prepared. Operators routinely meet with P&A's appraisers to review parameters and to provide data not readily available to P&A through public or commercial sources, such as individual lease operating expense and reserve figures. And of course, all property values are subject to review through normal protest and Appraisal Review Board procedures, with P&A acting as an extension of the Office of the Chief Appraiser.

## **PERFORMANCE TESTS**

An independent test of the appraisal performance of properties appraised by P&A is conducted by the State of Texas Comptroller's Office through the annual Property Value Study for school funding purposes. This study determines the degree of uniformity and the median level of appraisal for mineral properties. School jurisdictions are given an opportunity to appeal any preliminary findings. After the appeal process is resolved, the Comptroller publishes a report of the findings of the study, including in the report the median level of appraisal, the coefficient of dispersion around the median level of appraisal and any other standard statistical measures that the Comptroller considers appropriate.

## **CALENDAR OF EVENTS/DELIVERABLES TO CLIENT**

As an appraisal contractor, the calendar of events and/or deliverables is largely dependent upon the client's needs and requirements. That said, P&A generally follows the property tax calendar as promulgated by the Property Tax Assistance Division (PTAD) whereas certain work activities must be accomplished by certain deadlines as specified by the Property Tax Code. P&A's contracts typically involve compensation being received from the client only after completion of certain events or deliverables. For example, the CAD may make quarterly payments per the following schedule:

- February, after completion of personal property field inspections;
- May, after completion and mailing of Notices of Appraised Value;
- August, after completion of Appraisal Review Board hearings; and

- November, after Certification of values.

The timetable regarding the sections described above is generally as follows:

- **Data Collection/Validation** occurs beginning in the Fall (October) prior to a tax year and continues into the Spring of that same tax year;
- **Valuation Analysis (Model Calibration)** occurs in the Spring (March - May) of a tax year and continues into the Summer (June - August) of that same tax year;
- **Individual Value Review Procedures** occurs concurrent, more or less, with Valuation Analysis; and
- **Performance Tests** occurs later in the tax year after certification of values.



## REAPPRAISAL OF INDUSTRIAL, UTILITY, AND RELATED PERSONAL PROPERTY

*Note: This section, in conjunction with any attached or separately provided P&A-generated appraisal reports specific to the subject property or properties, constitutes the "mass appraisal written report" as required by USPAP Standards Rule 6-8. USPAP Standards Rule 6-9 (certification) can be found at the end of this report. USPAP Standards Rules 6-1 through 6-7 (instructions and explanations regarding the development, application, and reconciliation of mass appraisal values), as they apply to P&A mass appraisal procedures, are discussed below. USPAP DOES NOT DICTATE THE FORM, FORMAT, OR STYLE OF APPRAISAL REPORTS, WHICH ARE FUNCTIONS OF THE NEEDS OF USERS AND PROVIDERS OF APPRAISAL SERVICES. USPAP ALSO DOES NOT MANDATE THAT EACH APPRAISAL REPORT BE LENGTHY AND FULL OF DISCLAIMERS. Readers should note that all P&A reports, unless stated otherwise, are of a "summary" nature versus "self-contained," whereas additional documentation and detail may be available per certain Texas Property Tax Code provisions.*

### INTRODUCTION

**Definition of Appraisal Responsibility:** The Engineering Services Department of Pritchard & Abbott, Inc. (P&A) is responsible for developing fair and uniform market values for industrial, utility and personal properties.

P&A's typical client is a governmental entity charged with appraisal responsibility for ad valorem tax purposes, although other types of clients (private businesses, individuals, etc.) occasionally contract for appraisal services which are strictly for various non-ad valorem tax purposes so that no conflicts of interest are created with P&A's core ad valorem tax work.

Intended users of our reports are typically the client(s) for which we are under direct contract and taxpayers or their agents who own and/or represent the subject property being appraised. Potential other users include parties involved in adjudication of valuation disputes (review board members, lawyers, judges, etc.), governmental agencies which periodically review our appraisals for various statutory purposes (such as the Texas Comptroller's Office) and private parties who may obtain copies of our appraisals through Open Records Requests made to governmental agencies.

P&A believes this section of this report, in conjunction with any attached or separately provided P&A-generated report(s), meets the USPAP definition of "typical practice"; i.e., it satisfies a level of work that is consistent with:

- the expectations of participants in the market for the same or similar appraisal services; and
- what P&A's peers' actions would be in performing the same or similar appraisal services in compliance with USPAP.

***This section of P&A's Biennial Reappraisal Plan is not applicable to any Industrial, Utility, or related Personal Property that an appraisal district appraises outside of P&A's appraisal services, in which case the appraisal district's overall Biennial Reappraisal Plan should be referenced.***

P&A makes the **Extraordinary Assumption** that all properties appraised for ad valorem tax purposes are marketable whereas ownership and title to property are free of encumbrances and other restrictions that would affect fair market value to an extent not obvious to the general marketplace. If and/or when we are made aware of any encumbrances, etc., these would be taken into account in our appraisal in which case the extraordinary assumption stated above would be revoked.

**Legal and Statutory Requirements:** The provisions of the Texas Property Tax Code and relevant legislative measures involving appraisal administration and procedures control the work of P&A as a subcontractor to the Appraisal District. P&A is responsible for appraising property on the basis of its market value as of January 1 for ad valorem tax purposes for each taxing unit that imposes ad valorem taxes on property in the contracted Appraisal District. All industrial, utility and personal

properties are reappraised annually. The definition of Fair Market Value is provided and promulgated for use in ad valorem tax work in Texas by the Texas Property Tax Code, and therefore as a **Jurisdictional Exception** supercedes the definition of "market value" as found in USPAP definitions.

**Administrative Requirements:** P&A follows generally accepted and/or recognized appraisal practices and when applicable, the standards of the International Association of Assessing Officers (IAAO) regarding its appraisal practices and procedures. P&A, when applicable, also subscribes to the standards promulgated by the Appraisal Foundation known as the Uniform Standards of Professional Appraisal Practice (USPAP). P&A submits annual or biannual contract bids to the Office of the Chief Appraiser and is bound to produce appraisal estimates on industrial, utility and personal properties within the cost constraints of said bid. Any appraisal practices and procedures followed by P&A not explicitly defined through IAAO or USPAP requirements are specified by the Texas Property Tax Code and/or at the specific request or direction of the Office of the Chief Appraiser.

### Appraisal Resources

**Personnel:** The Engineering Services Department and P&A's appraisal staff consists of appraisers with degrees in engineering, business and accounting. All personnel are Registered Professional Appraisers with the State of Texas, or are progressing towards this designation as prescribed by the Texas Department of Licensing and Regulation (TDLR).

**Data:** A set of data characteristics (i.e. original cost, year of acquisition, quantities, capacities, net operating income, property description, etc.) for each industrial, utility and personal property is collected from various sources. This data is maintained in either hard copy or computer files. Each property's characteristic data drives the appropriate computer-assisted appraisal approach to valuation.

**Information Systems:** P&A's mainframe computer system is composed of in-house custom software augmented by schedules and databases that reside as various applications on personal computers (PC). P&A offers a variety of systems for providing property owners and public entities with information services.

### VALUATION APPROACH (MODEL SPECIFICATION)

**Concepts of Value:** The valuation of industrial, utility and personal properties is not an exact science, and exact accuracy is not attainable due to many factors. These are considered complex properties and some are considered Special Purpose properties. Nevertheless, standards of reasonable performance do exist, and there are reliable means of measuring and applying these standards.

The evaluation and appraisal of industrial, utility and personal property relies heavily on the discovery of the property followed by the application of recognized appraisal techniques. The property is subject to inflation and depreciation in all forms. The appraisal of industrial and personal property involves understanding petroleum, chemical, steel, electrical power, lumber and paper industry processes along with a myriad of other industrial processes. Economic potential for this property usually follows either the specific industry or the general business economy. The appraisal of utility properties involves understanding telecommunications, electrical transmission and distribution, petroleum pipelines and the railroad industry. Utility properties are subject to regulation and economic obsolescence. The examination of utility property involves the understanding of the present value of future income in a regulated environment.

The goal for valuation of industrial, utility and personal properties is to appraise all taxable property at "fair market value". The Texas Property Tax Code defines Fair Market value as the price at which a property would transfer for cash or its equivalent under prevailing market conditions if:

- exposed for sale in the open market with a reasonable time for the seller to find a purchaser;
- both the seller and the purchaser know of all the uses and purposes to which the property is adapted and for which it is capable of being used and of the enforceable restrictions on its use; and

- both the seller and purchaser seek to maximize their gains and neither is in a position to take advantage of the exigencies of the other.

### Approaches to Value for Industrial, Utility, and Personal Property

**Cost Approach:** The use of cost data in an appraisal for market value is based upon the economic principle of substitution. This method is most readily applicable to the appraisal of industrial and personal property and some utility property. Under this method, the market value of property equals the value of the land plus the current cost of improvements less accrued depreciation. An inventory of the plant improvements and machinery and equipment is maintained by personally inspecting each facility every year. As a general rule, and for the reasons stated above, Pritchard & Abbott, Inc., relies predominantly on the cost approach to value in the appraisal of industrial, utility, and personal property.

**Market Approach:** This approach is characterized as one that uses sales data available from actual transactions in the market place. There are two factors that severely limit the usefulness of the market approach for appraising industrial, utility and personal properties. First, the property sales data is seldom disclosed; consequently there is insufficient market data for these properties available for meaningful statistical analysis. Second, all conditions of sale must be known and carefully investigated to be sure one does have a comparative indicator of value. Many times when these properties do change hands, it is generally through company mergers and acquisitions where other assets and intangibles in addition to the industrial, utility and personal property are involved. The complexity of these sales presents unique challenges and hindrances to the process of allocation of value to the individual components of the transaction.

In the case of industrial, utility and personal properties, a scarcity of sales requires that all evidence of market data be investigated and analyzed. Factors relative to the sale of these properties are:

- plant capacity and current production; terms of sale, cash or equivalent;
- complexity of property;
- age of property;
- proximity to other industry already operated by the purchaser; and
- other factors such as capital investment in the property.

As a general rule, and for the reasons stated above, Pritchard & Abbott, Inc., rarely employs a rigorous application of the market approach in the appraisal of industrial, utility, and personal property.

**Income Approach:** This approach to value most readily yields itself to all income generating assets, especially utility properties. Data for utility properties is available from annual reports submitted to regulatory agencies whereby future income may be estimated, and then this future income may be converted into an estimate of value. The valuation of an entire company by this method is sometimes referred to as a Unit Value. Many refer to this as a capitalization method, because capitalization is the process of converting an income stream into a capital sum (value). As with any method, the final value estimate is no better than the reliability of the input data. The underlying assumption is that people purchase the property for the future income the property will yield.

The relevant income that should be used in the valuation model is the expected future net operating income after depreciation but before interest expense (adjustments for Federal Income Taxes may or may not be required). Assumptions of this method are:

- Past income and expenses are a consideration, insofar as they may be a guide to future income, subject to regulation and competition.
- The economic life of the property can be estimated.
- The future production, revenues and expenses can be accurately forecasted. Future income is less valuable than current income, and so future net income must be discounted to make it equivalent to the present income. This discount factor reflects the premium of present money over future money, i.e., interest rate, liquidity, investment management, and risk.

As a general rule, and for the reasons stated above, Pritchard & Abbott, Inc., employs the income approach in the appraisal of industrial and utility property only when quantifiable levels of income are able to be reliably determined and/or projected for the subject property. P&A does not employ the income approach in the appraisal of personal property.

## DATA COLLECTION/VALIDATION

**Sources of Data:** The main source of P&A's property data for industrial and personal property is through fieldwork by the appraisers and commercially/publicly available schedules developed on current costs. Data for performing utility appraisals is typically provided by the taxpayer or is otherwise available at various regulatory agencies (Texas Railroad Commission, Public Utilities Commission, FERC, et al.). Other discovery tools are financial data from annual reports, information from chief appraisers, renditions, tax assessors, trade publications and city and local newspapers. Other members of the public often provide P&A information regarding new industry and other useful facts related to property valuation.

**Data Collection Procedures:** Electronic and field data collection requires organization, planning and supervision of the appraisal staff. Data collection procedures have been established for industrial and personal properties. Appraisers gather and record information in the mainframe system, where customized programs serve as the basis for the valuation of industrial, utility and personal properties. P&A is divided into multiple district offices covering different geographic zones. Each office has a district manager and field staff. While overall standards of performance are established and upheld for the various district offices, quality of data is emphasized as the goal and responsibility of each appraiser. Additionally, P&A's Engineering Services Department provides supervision and guidance to all district offices to assist in maintaining uniform and consistent appraisal practices throughout the company.

## VALUATION ANALYSIS (MODEL CALIBRATION)

The validity of the values by P&A's income and cost approaches to value is tested against actual market transactions, if and when these transactions and verifiable details of the transactions are disclosed to P&A. These transactions are checked for meeting all requisites of fair market value definition. Any conclusions from this analysis are also compared to industry benchmarks before being incorporated in the calibration procedure. Appropriate revisions of cost schedules and appraisal software are annually made and then tested for reasonableness prior to the appraisals being performed.

## INDIVIDUAL VALUE REVIEW PROCEDURES

Individual property values are reviewed several times in the appraisal process. P&A's industrial, utility, personal property programs and appraisal spreadsheets afford the appraiser the opportunity to review the value being generated. Often the appraiser is prompted to reevaluate some or all of the parameters of data entry so as to arrive at a value more indicative of industry standards. Examples of indicators are original cost, replacement cost, service life, age, net operating income, capitalization rate, etc. In addition to appraiser review, taxpayers are afforded the opportunity to review the appraised values either before or after Notices of Appraised Value are prepared. Taxpayers, agents and representatives routinely meet with P&A's appraisers to review parameters and to provide data not readily available to P&A through public or commercial sources, such as investment costs and capitalization rate studies. And of course, all property values are subject to review through normal protest and Appraisal Review Board procedures, with P&A acting as a representative of the Office of the Chief Appraiser.

## PERFORMANCE TESTS

An independent test of the appraisal performance of properties appraised by P&A is conducted by the State of Texas Comptroller's Office through the annual Property Value Study for school funding purposes. This study determines the degree of uniformity and the median level of appraisal for utility properties. School jurisdictions are given an opportunity to appeal

any preliminary findings. After the appeal process is resolved, the Comptroller publishes a report of the findings of the study, including in the report the median level of appraisal, the coefficient of dispersion around the median level of appraisal and any other standard statistical measures that the Comptroller considers appropriate.

#### **CALENDAR OF EVENTS/DELIVERABLES TO CLIENT**

As an appraisal contractor, the calendar of events and/or deliverables is largely dependent upon the client's needs and requirements. That said, P&A generally follows the property tax calendar as promulgated by the Property Tax Assistance Division (PTAD) whereas certain work activities must be accomplished by certain deadlines as specified by the Property Tax Code. P&A's contracts typically involve compensation being received from the client only after completion of certain events or deliverables. For example, the CAD may make quarterly payments per the following schedule:

- February, after completion of personal property field inspections;
- May, after completion and mailing of Notices of Appraised Value;
- August, after completion of Appraisal Review Board hearings; and
- November, after Certification of values.

The timetable regarding the sections described above is generally as follows:

- **Data Collection/Validation** occurs beginning in the Fall (October) prior to a tax year and continues into the Spring of that same tax year;
- **Valuation Analysis (Model Calibration)** occurs in the Spring (March - May) of a tax year and continues into the Summer (June - August) of that same tax year;
- **Individual Value Review Procedures** occurs concurrent, more or less, with Valuation Analysis; and
- **Performance Tests** occurs later in the tax year after certification of values.

THE STATE OF TEXAS

COUNTY OF HARTLEY

On this the 27th day of August, 2014, the Governing Body of the Hartley County Appraisal District, was convened in regular session, with the following members present to wit:

David Spinhirne	Chairman
J. D. Clark	Vice-Chairman
Mario Gomez	Secretary
Cheri DeJong	Member
Jay Peeples	Member

and at such session, among other proceedings, the following resolution was passed:


As authorized by S.B. 1652, Property Tax Code Section 6.05 (i) concerning the Biennial Reappraisal Plan for Hartley County Appraisal District, the Governing Body of the District resolves to adopt and approve the so mentioned reappraisal plan for the years 2015/2016. The annual appraisal is for ad valorem tax purposes of mineral, industrial, utility, related personal property and real estate within the Hartley County Appraisal District boundaries according to the requirements of Section 25.18.

The above resolution being read, it was moved and seconded that the same do pass and be adopted and approved. Thereupon, the question being called for, the following members voted Aye:

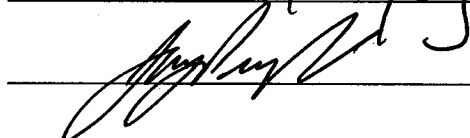
Witness our hands officially this 27<sup>th</sup> day of August, 2014.

 Chairman

 Vice-Chairman

 Secretary

 Member

 Member