ThinkGeo MapSuite GIS Editor
(LandPro Edition)

GIS Software for Landmen “Made Easy”

PRODUCT SUMMARY

Doc Version 2019.01

Distributed by
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For more information or for a FREE online demonstration of the program please contact salesinfo@landpro.com or by phone at 281.363.4213.
Key Features include:

- **COGO Tools** – Metes & Bounds and Jeffersonian Quartering
- View Visual LandPro data on your maps
- Access various VLP data-entry screens (View-Only, under construction)
- Generate “Smart” Maps based on Visual LandPro “Queries”
  - Lease Expiration Maps (Yearly, Quarterly, Monthly),
  - Pugh Status Maps
  - HBP Status
  - Tract Ownership
  - Special Provision Maps
  - Responsible Parties Maps
  - Lessor Maps
  - Lessee Maps
  - Well Maps
  - NRI and Royalty Maps, and more...
- Display maps by querying common Visual LandPro data fields
- Quickly create “quick-filters” in order to find similar type of data on your maps.
- Use our LandPro Info Tools to display LIVE LandPro data in grid-style fashion, including
  - Leases, Tracts, Mineral Ownership Details
  - Chain of Title Instruments
  - Special Provisions
  - Payment Obligations
  - Payment History,
  - Coal Mining Production History
  - and more...
- Access multiple LandPro companies and run maps based on different databases
- Access to hundreds of Visual LandPro data “attributes” including Lease Expiration Dates, Gross / Net Acres, Tract Mineral Ownership details, Lessors, Lessees, Lease IDs, Tract Depths, Special Provisions, Payment Obligations, Tract General Information, Lease NRI, Lease Royalty, Lease Overrides, Cost Information, Prospect Outlines, Lease Status Codes and many more...
- Unique Trace Tool allows for following boundary lines like “Meandering” Rivers
- Measure Areas
- Over 20 Unique File Types Accepted including: SHP, BAS, TIFF, JPG, GDB, TGE0 and CSV AND GO
- Exports to Shapefile, FileGeoDatabase, CSV and Google Earth
ThinkGeo Map Suite GIS Editor (LandPro Edition) is a GIS Mapping Editor Software system developed by ThinkGeo. LandPro Corp added proven-useful, LandPro-specific functionality, thus giving Lease and GIS Analysts the tools needed to connect GIS Shapefiles to the Visual LandPro 2000 Database. In doing so this would create a unique environment in which land data could be visualized, filtered and printed adding a new level of depth to any presentation as well as allowing informed decisions to be made based on real time data being entered by the lease analyst.

Map Suite GIS Editor is an easy to use yet highly advanced program for mapping GIS polygons. The tools are user friendly and require little training to be used to their full potential. With the added bonus of now being able to connect to any Visual LandPro 2000 database the possibilities when creating custom maps are endless.

COGO Tools
With the COGO Tools for creating Metes & Bounds, Jeffersonian Quartering and Well Spotting Tool creating your polygons is a snap. The tools were designed for those who understand the descriptions and can follow a simple “Fill in the Blank” approach. Simply specify your starting position for your Metes & Bounds feature and then enter your calls.
The Metes and Bounds Tool keeps track of existing calls so the user can go back and edit them as needed, it also keeps up with how much acreage the current feature covers along with closure ratio so the user knows how far apart the beginning and ending points are. This tool can also be used to trace along the boundary of a survey or even a river.
The Jeffersonian Tool is just as intuitive as the Metes & Bounds. Simply select the Section or Survey your wish to “Split” and the Tool will help the user do the rest.

Split Tool understands the basic calls like NW/4 or NW/4 NW/4, but it also understands Less and Excepts, And, as well as the East 200 Feet or North 200 Acres. The tool is extremely flexible as well when working in an area where multiple features are going to be draw in the surrounding sections.

The Preview Window on the right is an interactive screen where the user can zoom in or out and then select the next section immediately to begin drawing the next set of features.
**Well Spotting Tool** allows the user to spot individual well points, batch add well points from Excel or use a Legal Description. This gives the user the flexibility of putting them in one at a time or all at once given they are on a spreadsheet. The spreadsheet will bring in all column headers as attributes as well allowing for a “Mass Update” type of input into their map.

The user can spot a well based on X/Y or Long/Lat depending on the information available to them. At the time of plotting they can also choose which projection this point is to be drawn in.

![Start from X and Y](image)

Plotting points has never been easier!
Cloud Layers

Cloud Layers are internet based data layers that are provided with Map Suite. These layers include:

- US Counties
- Texas Survey Abstracts
- Texas Appraisal Districts – Harris County (More to be added in the future)
- US Township and Range
- US Sections
- US BLM Quarter-Quarter and Lots

All of these layers are loaded from the internet and are cached on your local machine as the tiles are rendered. These layers come with unique data that can benefit anyone creating a map.

By adding these layers the user can create an even more detailed “Basemap”. Use these layers with an Aerial or a Roads map and your project will start to develop in ways not previously seen before. Multiple layers can be added to the map to give it more depth and show more information such as US Township and Range and US Section. As these layers are updated with new content so the user will have instant access to it.
**Visual LandPro Layers**

The plugin can generate 7 unique Layer Types: Subtracts, Tracts, Leases, Prospects, Properties, Wells and Units. When a user draws a polygon and “Links” that feature into the LandPro database they are essentially drawing the “Subtract” or the smallest possible feature. By using the Tract and Subtract IDs a bridge is created and the plugin begins to take over. The user has drawn the Tract (Subtract) but the plugin will generate the Leases, Prospects, Wells and Units map on its own. This means if multiple Tracts fall within one lease the user will not see the separation between the Tracts if they are touch each other, rather they will see 1 feature instead of 2. The same goes for Prospect, as Leases are linked to the map the Prospect outline will start to grow.

Another benefit of the plugin is that it access’s the data of multiple companies within Visual LandPro so you can add that information multiple times to show different areas of interest. Updating Layers is quick and easy and you are always working with Live data!

As information changes in the system a simple Rebuild of the Layer can be done to update and refresh the LandPro data. This process takes seconds not hours!

By adding a LandPro Layer to your map you are bring in details related to that Filter and Layer. For instance, adding a Lease Layer brings over such information as Lease ID, Lessor/Lessee, Payment Obligations, Expiration Dates, Acreage Information, Ownership Information, Related Tracts, Wells and Units, NRI, Royalty, Overrides and much more.

In conjunction with the LandPro Info Tools the user will receive any and all related information to the filtered out material. There isn’t a stone that hasn’t been left unturned when using the LandPro Plugin.

Take a look at the various images on the next page for more information.
### LandPro Info Tools and Information

#### Feature Information

<table>
<thead>
<tr>
<th>Column</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Id</em></td>
<td><em>54E17LBCH</em></td>
</tr>
<tr>
<td>Lease Primary Key</td>
<td><em>54E17LBCH</em></td>
</tr>
<tr>
<td>Lease Id</td>
<td>TX002-AND-001-00</td>
</tr>
<tr>
<td>Lease Active?</td>
<td>True</td>
</tr>
<tr>
<td>Lease Lessor Id</td>
<td>MERR0001</td>
</tr>
<tr>
<td>Lease Name</td>
<td>Robert D. Merritt and Robert F. Pettigrew and wife, Cathaleen D. Pettigrew and St.</td>
</tr>
<tr>
<td>Lease Term Option</td>
<td></td>
</tr>
<tr>
<td>Lease Lessee Id</td>
<td>AMOCO</td>
</tr>
<tr>
<td>Lease Type Code Id</td>
<td>FEE</td>
</tr>
<tr>
<td>Lease Status Code Id</td>
<td>HBP</td>
</tr>
<tr>
<td>Lease HBP Flag</td>
<td>0</td>
</tr>
<tr>
<td>Lease Top Lease?</td>
<td>False</td>
</tr>
<tr>
<td>Lease Producing?</td>
<td>False</td>
</tr>
<tr>
<td>Lease Paid Up?</td>
<td>True</td>
</tr>
<tr>
<td>Lease Pugh Hours?</td>
<td>True</td>
</tr>
<tr>
<td>Lease Pugh Vertical?</td>
<td>True</td>
</tr>
<tr>
<td>Lease Gross Acres</td>
<td>886.90590000</td>
</tr>
<tr>
<td>Lease Gross Developed</td>
<td>145.70330000</td>
</tr>
<tr>
<td>Lease Gross Undeveloped</td>
<td>741.20260000</td>
</tr>
<tr>
<td>Lease Net Acres</td>
<td>331.00390000</td>
</tr>
<tr>
<td>Lease Entity Gross Acres</td>
<td>177.38110000</td>
</tr>
<tr>
<td>Lease Entity Net Acres</td>
<td>66.20079000</td>
</tr>
<tr>
<td>Lease Eff. Date</td>
<td>4/1/1999</td>
</tr>
<tr>
<td>Lease Exp. Date</td>
<td>4/1/2009</td>
</tr>
<tr>
<td>Lease Date Rental Due</td>
<td></td>
</tr>
<tr>
<td>Lease Exp. Date Month</td>
<td>4</td>
</tr>
<tr>
<td>Lease Exp. Date Year</td>
<td>2009</td>
</tr>
</tbody>
</table>

#### Print Hist Info

<table>
<thead>
<tr>
<th>Lease Id</th>
<th>Check D</th>
<th>Char</th>
<th>Payee Id</th>
<th>Payee</th>
<th>Amount</th>
<th>Bank Id</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>42339-0000-01</td>
<td>2/1/1999</td>
<td>1</td>
<td>2356</td>
<td>PETR0002</td>
<td>68578.00</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>42339-0000-01</td>
<td>2/1/1999</td>
<td>1</td>
<td>2357</td>
<td>PETR0001</td>
<td>Debra E. Pettigrew</td>
<td>1010.00</td>
<td>10.00</td>
</tr>
<tr>
<td>42339-0000-01</td>
<td>2/1/1999</td>
<td>1</td>
<td>2358</td>
<td>PETT001</td>
<td>Pettigrew, Cathaleen D. Pettigrew</td>
<td>1010.00</td>
<td>UNION BK, 10.00</td>
</tr>
<tr>
<td>42339-0000-01</td>
<td>8/5/2009</td>
<td>1</td>
<td>10000</td>
<td>PETR0002</td>
<td>Steven M. Pettigrew</td>
<td>2512.50</td>
<td>BANK-AME01, 12.50</td>
</tr>
</tbody>
</table>

#### Sp Prov Info

<table>
<thead>
<tr>
<th>Lease Id</th>
<th>Code</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>42339-0000-01</td>
<td>DAMA</td>
<td></td>
<td>Must pay for actual damages.</td>
</tr>
<tr>
<td>42339-0000-01</td>
<td>CCNS</td>
<td></td>
<td>Must receive written consent and pr</td>
</tr>
<tr>
<td>42339-0000-01</td>
<td>CONT</td>
<td></td>
<td>120 days, accumulative, not to exceed</td>
</tr>
<tr>
<td>42339-0000-01</td>
<td>PRRE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Each time the user selects a LandPro Feature (from a LandPro Layer) new results will be generated within the Info Tabs at the bottom of the screen.

The tabs that can be added include:

- Contract
- Chain of Title
- Lease
- Mineral Owner
- Property
- Subtract
- Unit
- Well
- Special Obligations
- Payment History
- Payment Obligations
- Burdens
- Working Interest
- Special Provisions
- Attached Documents
- Division Orders
- Mining Production History data

This is just a grid view of what’s related to the selected features. More information can be retrieved by simply identifying the feature or adding labels.

There are hundreds of fields waiting to be used as a filter or as a label within the project. The combinations are endless when you have this much access to your land database.

Double-click on the VLP data records and in most instances, for the main property records, the program will open a VLP-Style Edit Screen (in View-Only Mode), to let you see more data, in a fashion similar to what you would see within VLP2000.
List of available LandPro Info Tools (data grids) as of 2/1/2016
Mapsuite GIS Editor LandPro Edition also gives the LandPro user view-only access to various VLP2000 edit screens. Below are a few sample screenshots. These type of windows can be accessed by double-clicking the records in most VLP Info Tools grids.
### Map Suite GIS Editor (LandPro Ed.)

#### Chain Of Title 1000 - Probate - Hugo Petrin, Jr. to Darlene E. Petrin

<table>
<thead>
<tr>
<th>Identification</th>
<th>Instrument Id</th>
<th>Type of Instrument</th>
<th>Brief Description</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000</td>
<td>PROB - Probate</td>
<td>Probate - Hugo Petrin, Jr. to Darlene E. Petrin</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Important Dates</th>
<th>Instrument Date</th>
<th>Expiration Date</th>
<th>Other Date 2</th>
<th>Effective Date</th>
<th>Other Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7/1/1970</td>
<td></td>
<td></td>
<td>7/1/1970</td>
<td></td>
</tr>
</tbody>
</table>

**Conveyance**

Will; Order Admitting Will to Probate; Letters Testamentary; Tax Receipts

**Grantor Info**

<table>
<thead>
<tr>
<th>Grantee Info</th>
</tr>
</thead>
</table>

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#### Well TX001-PE001 - Petrin Well No.1

<table>
<thead>
<tr>
<th>Identification</th>
<th>Well Id No.</th>
<th>Well Name</th>
<th>Oper. Well Id</th>
<th>RRC Id</th>
<th>Tobin</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TX001-PE001</td>
<td>Petrin Gas Unit #1</td>
<td>42113-00234</td>
<td>167648</td>
<td></td>
</tr>
</tbody>
</table>

**Well Information**

<table>
<thead>
<tr>
<th>Well Type</th>
<th>Well Status</th>
<th>Acquisition Code</th>
<th>Payout Code</th>
<th>Location Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAS - Gas</td>
<td>PROD - Producing</td>
<td>DA - Direct Acquisition</td>
<td>ALL - BPO / APO</td>
<td>Prospect Id: TX001 - Blue Sky</td>
</tr>
</tbody>
</table>

**Well Acreage**

- Active?
- OK to Pay?
- Producing?
- Split Stream?

**Acreage Type**

- Total Depth: 4560

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**Map Suite GIS Editor (LandPro Ed.)**

www.landpro.com
**LandPro Filters**

Each LandPro Layer when activated brings up a Property Specific Filter which mirrors the Filters within Visual LandPro 2000. This means when searching on Leases, the filter will have more Lease Specific Fields compared to a Well Filter.

These filters help to narrow down the dataset before the Layer is generated so that the user doesn’t get ALL records, only those within a specific criteria.

These filters are intelligent and allow for users to stack multiple fields within each other.

*Example Leases that: Are in a Specific Prospect, Expire within a given date range and are in a specific status.*
Exporting
Exporting is a staple within any GIS Feature. You want to take what you have and bring it out in another format. Within Map Suite the user can export several different ways.

- Export to Shapefile
- Export to FileGeoDatabase
- Export to Excel (CSV)
- Export to Google Earth Pro (Vector or Raster)

**Export to Shapefile** gives the user the ability to take another type of file maybe a Mr. Side or FileGeoDatabase and bring it out into a GIS Standard extension. Once exporting the user has the chance to change the projection and location in which the new file will be saved at which point the file can be shared amongst other users and programs.

**Export to FileGeoDatabase** gives the user the gdb extension for use in ArcGIS and other programs that accept the extension.

**Export to Excel (CSV)** is related to the data grids shown throughout the program. Most notably the LandPro Info Tabs. The user can right click and export the data as columns and rows into the CSV extension.

**Export to Google Earth Pro, or Google Earth** allows the user to take a selection or what is currently in the Map’s View Port and bring it into Google Earth’s 3D environment. This Geo-referenced KML file will automatically launch Google Earth and rotate the globe to show the user their map within Google Earth’s environment.
Printing

Using the Print Preview allows the user to expertly setup their Map Elements, show multiple maps within a given layout, Annotate the layout with Shapes, Texts and Images, build a custom Legend, set the Scale for the map(s) and much more.
Using Adobe PDF Writer you can send your newly created maps to a PDF file and review it before sending it off to the plotter or attaching it to your next proposal.
LANDPRO SMART MAPS

Generate a number of “smart-maps”, utilizing LIVE LandPro data. Easily export results to .SHP files.

Lease Expirations Maps:
- By Year
- By Quarter
- By Month

Lease Status Maps
- HBP
- Leased
- Lessees
- Lessors
- Responsible Parties
- Operators
- Status Codes
- Type Codes
- Basin Codes
- Special Provisions
- Regions
- Districts

Formation Smart Maps

Lease Interest Maps
- Royalty/ORR Burdens
- Entity N R I
- WI Participant NRI
- Royalty/ORRI Interests
- Royalty Owners
- Working Int. Owners

Tract Interest Smart Maps
Sample Lease Status Map: HBP Map

Want more? WATCH VARIOUS VIDEOS AND GET VARIOUS WHITE-PAPERS AT WWW.LANDPRO.COM

See also Powerpoint presentation at http://www.landpro.com/page_Mapsuite.asp

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