



LAND DATA ELEMENTS

THIS BROCHURE OUTLINES **3 CRITICAL LAND DATA ELEMENTS** THAT E&PS ARE INTEGRATING **USING GROOPER**

LEASE PROVISION DATA

DOCUMENT CLASSIFICATION DATA

DOCUMENT ATTRIBUTE DATA

LAND DATA ELEMENTS

Using NLP and Machine Learning, Grooper identifies and classifies many data elements within a variety of digital and paper documents.

LEASE PROVISION DATA

| | | |
|------------------------------------|---------------------------------|---------------------------------------|
| Assignment by Lessee\Grantee | Pugh Clause | Surface Usage Clause |
| Cessation | Pugh Time Period | Surface Water Usage |
| Coal Bed Methane | Release Required | Timely Royalty Payment Days |
| Consent Req'd to Drill Nearer Than | Rework (# Days) | Timely Royalty Payment Penalty |
| Continuous Drilling | Royalty - Gas | Top Lease (Bottom Lease #) |
| Earned Time Credit | Royalty - Gas from Oil | Warranty |
| Favored Nations | Force Majeure/Delay Clause? | Product Type(s) Restrictions |
| Flared Gas | Miles to Shore | Centerline Based Width |
| Force Majeure | Minimum Royalty (\$) | Total Easement Width |
| Gas Storage | Pugh Clause | Restriction on Number of Lines |
| Indemnity | Shut In Days | Pipeline Size Restriction |
| Lessee Use of Gas | Water Depth | Product Direction Restriction |
| Lessor Use of Gas | Royalty Oil | Renewal |
| Min Drilling Obligation (# Wells) | Royalty Deductions Gas | Access Notice/Permission |
| Minimum Royalty (\$) | Royalty Deductions Gas from Oil | Reclamation Requirement |
| Mother Hubbard | Royalty Deductions Oil | Abandonment Term |
| Offset Well Requirement | Shut In | Construction Limitation |
| Option to Extend (# Yrs) | Shut In Days | Liquidated Damages for Non-compliance |
| Pooling | Shut In Limitation | Assignment by Lessee/Grantee |
| Pooling - Voluntary (Gas) | Surface Payment | Reassignment |
| Pooling - Voluntary (Horizontal) | Royalty Suspension of Volume | Pugh Time Period |
| Pooling - Voluntary (Oil) | | |

LAND DATA ELEMENTS

DOCUMENT CLASSIFICATION DATA

DOCUMENT TYPES:

- AGREEMENT CHECK/INVOICE
- INTEREST DOCUMENTATION PROBATE
- TITLE
- WELL INFORMATION

DOCUMENT CATEGORIES:

- CONTRACT
- DIVISION ORDER
- LEASE

DOCUMENT SUB TYPES:

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| A.M.I. AGREEMENT | CROSS ASSIGNMENT | FIRST SALES REPORT |
| AGREEMENT | CRUDE OIL PURCHASE | FIRST SUPPLEMENTAL DIVISION ORDER TITLE OPINION |
| ACREAGE TRADE AGREEMENT | DEATH CERTIFICATE | FLARE REPORT |
| AFFIDAVIT OF EXTENSION | DECLARATION OF POOLED UNIT | FLOW BACK REPORT |
| AFFIDAVIT OF HEIRSHIP | DECLARATION OF SPACING UNIT | FORCE POOLING |
| AGREEMENT FOR USE OF SURFACE | DECLARATION OF UNITIZATION | FRAMEWORK AGREEMENT |
| ALLOCATION AGREEMENT | DEED OF TRUST | FRESH WATER PIT AGREEMENT |
| AMENDMENT AND EXTENSION OF O&GL | DESIGNATION OF UNIT/POOLING | GAS BALANCING AGREEMENT |
| AREA OF MUTUAL INTEREST | DIVISION ORDER - DOCUMENT | GAS COMPRESSION AGREEMENT |
| ARTICLES OF INCORPORATION ASSIGNMENT | DIVISION ORDER - WORKSHEET | GAS PLANT AGREEMENT |
| ASSIGNMENT OF OVERRIDING ROYALTY INTEREST | DIVISION ORDER TITLE OPINION | GAS PURCHASE AGREEMENT |
| AUTHORIZATION FOR USE OF CALICHE | DIVORCE DECREE | GAS PURCHASE CONTRACT |
| BIDDING AGREEMENT | DRILL SITE TITLE OPINION | GAS SALES CONTRACT |
| BILL OF SALE AGREEMENT | DRY HOLE CONTRIBUTION | GENERAL CONTRACT CORRESPONDENCE |
| CERTIFICATE OF DEPOSIT | EASEMENT | GENERAL INTEREST CORRESPONDENCE |
| CHECK/INVOICE | ELECTRIC DELIVERY SERVICE AGREEMENT | GENERAL LEASE CORRESPONDENCE |
| COMMUNITIZATION AGMT | EXCHANGE AGREEMENT | GENERAL PROBATE CORRESPONDENCE |
| CONFIDENTIALITY AGREEMENT | EXPLORATION AGREEMENT FACILITY | GENERAL WELL CORRESPONDENCE |
| CONSENT AGREEMENT | FACILITY AGREEMENT | GENERAL TITLE CORRESPONDENCE |
| CONSENT TO ASSIGNMENT | FARM-IN | GEOPHYSICAL SURVEY AGREEMENT |
| CONSENT TO POOLING | FARM-OUT | INTERNATIONAL AGREEMENT |
| CONTRACT OPERATOR AGREEMENT | FEDERAL UNIT AGREEMENT | INTL-LICENSE/CONCESSION |
| CONVEYANCE | FINAL DISTRIBUTION OF ASSETS | JOINT DEVELOPMENT AGREEMENT |
| CORPORATE NAME CHANGE DOCUMENTS | FINAL PLUGGING REPORT | JOINT OPERATING AGREEMENT |

LAND DATA ELEMENTS

DOCUMENT CLASSIFICATION DATA CONTINUED

DOCUMENT SUB TYPES:

| | | |
|---|-------------------------------------|---------------------------------|
| JOINT VENTURE AGREEMENT | OPTION TO PURCHASE | SEISMIC SOURCE DEEDS |
| JUDGMENT OF POSSESSION | OWNER CHANGE | STATUS REPORT |
| LEASE ACQUISITION AGREEMENT | OWNERSHIP REPORT | STIPULATION OF INTEREST |
| LEASE PURCHASE REPORT (LPR) | PARTIAL ASSIGNMENT OIL & GAS LEASES | STORAGE FACILITY AGREEMENT |
| LETTER AGREEMENT | PARTIAL RELEASE | SUPPLEMENTAL TITLE OPINION |
| LETTER IN LIEU OF DIVISION ORDERS OR TRANSFER ORDER | PARTICIPATION AGREEMENT | SURFACE LEASE |
| LETTER OF INTENT | POWER OF ATTORNEY | SURFACE RATE & DAMAGE AGREEMENT |
| LETTERS OF ADMINISTRATION | PRODUCED WATER DISPOSAL | SURFACE USE AGREEMENT |
| LETTERS OF TESTAMENTARY | PRODUCTION HANDLING AGMT | SWD & GATHERING |
| LIEN | PRODUCTION PAYMENT AGREEMENT | TAX LEVY |
| MANAGEMENT SERVICES AGREEMENT | PRODUCTION SHARING AGREEMENT | TERM ASSIGNMENT |
| MARRIAGE CERTIFICATE | PROTECTION LEASE | TITLE OPINION |
| MINERAL DEED | PURCHASE & SALE WITH ASSIGNMENT | TOP LEASE |
| MISCELLANEOUS | PURCHASE CONTRACT | TRUST DOCUMENT |
| NET PROFITS AGREEMENT | PURCHASE/SALE AGREEMENT | UNIT AGREEMENT |
| NON-PROBATE TRANSFER DOCUMENTS | QUIT CLAIM DEED | UNIT ORDER / DESIGNATION |
| NOTICE OF CHANGE OF OWNER | RATIFICATION OF POOLED UNIT | UNIT UNITIZATION AGREEMENT |
| NOTICE OF FIRST PRODUCTION | RATIFICATION | UTILITY LICENSE AGREEMENT |
| PROPERTY MASTER INFORMATION (PMI) | RELEASE | W-9 |
| OF POOLED UNIT | RIGHT OF WAY | WARRANTY DEED |
| OIL AND GAS MINERAL LEASE | ROW/EASEMENT | WATER DISPOSAL |
| OIL PURCHASE CONTRACT | SALT WATER DISPOSAL AGREEMENT | WATER USAGE AGREEMENT |
| OPERATING AGREEMENT | SALT WATER DISPOSAL SYSTEM | WELL PARTICIPATION BALLOT |
| OPERATOR/PARTNER CHANGE NOTICE | SEISMIC OPTION AGREEMENT | WILL |

LAND DATA ELEMENTS

DOCUMENT ATTRIBUTE DATA

LAND DOCUMENT ATTRIBUTES:

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| Agreement Sub # | Document Date | Original Lessee-Grantee |
| Agency Name | Document Effective Date | Original Party |
| Agreement # | Document Expiration Date | Owner # - QLS |
| Agreement Date | Document Sub Type | Owner # - SAP |
| Agreement Name | Document Type | Owner Name |
| API # | DOI # | Pay Code |
| Asset | Effective Date | Permit # |
| Business Associate # | Execution Status | PO # |
| Company # | Facility | QLS Primary Key |
| Company Name | Unique Well Identifier | Regulated Entity # |
| Confidential | Invoice - Check # | Related Agreement # |
| Container # | Land Division | SAP Doc # |
| Contract # | Land Owner Type | State |
| Counter Party | Lessee-Grantee-Assignee | Status |
| Country | Lessor-Grantor-Assignor | Subject |
| County | Marginalia | Title |
| Customer # | Notes | Transaction Type |
| Date Signed | Original Executed Document | Venture-Property # |
| Document Category | | Well Name |