Louisiana Office of Conservation

Maneuvering in SONRIS
What is SONRIS?

- Strategic Online Natural Resources Information System
- Oil and gas well data and information in the form of:
  - IDR
  - Lite
  - Document Access
  - GIS
Where are SONRIS Applications?

- [Link](www.dnr.louisiana.gov), then select SONRIS button
- [Link](www.SONRIS.com)

**SONRIS Data Portal**
- Oil, gas, and injection well information, state land leasing, ground water information, and more at your finger tips.

**GIS Access**
- Retrieve information using interactive, geographically oriented map capabilities and select from a variety of layers of backgrounds.

**Document Access**
- Millions of documents in various formats readily available for view and print.

**Data Subscription Service**
- Get a monthly download of all the data for integration into your databases and applications.

**Submit Applications/Reports**
- **Online Production Reporting**
  - Electronically report oil and gas production and transportation related monthly reports.
- **Online Royalty Reporting**
  - Submit mineral royalty reports online.
- **Online UIC Reporting**
  - Submit UIC-10, UIC-24, and UIC-33/34 reports electronically.
SONRIS - IDR

- Allows queries without using any plug-ins; only native web browser functionality
- Live- once keyed into database, available in IDR
- Expanded search capabilities; live data
## SONRIS – Menu

### SONRIS Data Portal
- Codes and Definitions
- Well Information
- Production Audit
- Inspection and Enforcement
- Production and Reserve Pits
- Groundwater Well Information
- Coastal Use Permits
- State Leases
- Surveys
- Injection and Mining
- Oil and Gas

### Well Information
- Offshore Wells by Parish
- Operator History by Well
- Orphan Well Inspection
- Orphan Wells by Parish
- Permitted Wells by Date/Parish
- Well Casings
- Well Count for Field by Organization
- Well Count for Organization by Field
- Well History (All Records)
- Well History by Operator
- Well Information
- Well Information Details by Operator (OIC)
- Well Logs
- Wells (Excluding Well Status 03,28,29,30)
- Wells and USDW by Coordinates
- Wells by API Number
- Wells by Field ID
- Wells by Organization Name
- Wells by Parish
- Wells by Section, Township, and Range
- Wells by Serial Number
SONRIS – New Menu

- The hyperlink icon turns on Bookmark mode - build your own local menu

Menu has been consolidated! Click this link to access the reference/guide/index by topic.
SONRIS - IDR

- Works well in any browser

Under Well Information header, select Well Information IDR icon
SONRIS - IDR

Can search by any parameter; or, leave all fields blank to receive all results.
### SONRIS - IDR

#### SONRIS Data Portal

#### Office of Conservation - Well Information

**Report Parameters**

- Parish(es): ACADIA

**Results**

*Results can be filtered via this icon*

<table>
<thead>
<tr>
<th>Operator Name</th>
<th>Operator ID</th>
<th>Field ID</th>
<th>Field Name</th>
<th>Well Serial Num</th>
<th>Well Name</th>
<th>Well Num</th>
<th>Well Status Code</th>
<th>Well Status Code Description</th>
<th>Classification</th>
<th>Well Class Type Code</th>
<th>Well Class Type Code Description</th>
<th>API Num</th>
<th>Effective Date</th>
<th>Permit Date</th>
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<tr>
<td>3 &amp; 1 OPERATING INC</td>
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<td>CHURCH POINT</td>
<td>214037</td>
<td>NS Sub/SHELLEY CARRIER</td>
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<td></td>
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<td>-</td>
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</tbody>
</table>
Various actions are available, including:
- Filter
- Sort
- Downloads
- Hiding columns
**SONRIS - IDR**

The headers can be used to filter, hide columns, and sort.

<table>
<thead>
<tr>
<th>Operator Name</th>
<th>Operator ID</th>
<th>Field ID</th>
<th>Field Name</th>
<th>Well Serial Num</th>
<th>Well Name</th>
<th>Well Status Code Description</th>
<th>Well Class Type Code</th>
<th>Well Class Type Code Description</th>
<th>API Num</th>
<th>Effective Date</th>
<th>Permit Date</th>
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<td>5844</td>
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<td>5844</td>
<td>LAWSON</td>
<td>972153</td>
<td>001</td>
<td>UNABLE TO LOCATE WELL-NO PLUGGED AND ABANDONED</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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</tbody>
</table>
SONRIS - IDR

Default parameter is “equals” but can be modified by selecting the field.

<table>
<thead>
<tr>
<th>Operator Name</th>
<th>Operator ID</th>
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<th>Well Serial Num</th>
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<th>Well Class Type Code Description</th>
<th>API Num</th>
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<th>Permi Date</th>
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<tr>
<td>INACTIVE OPERATOR</td>
<td>9999</td>
<td>0727</td>
<td>WILDCAT-SO LA LAFAYETTE DIST</td>
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</table>
SONRIS - IDR

Multiple operators available to modify the displayed results within the application.
Multiple filters can be applied simultaneously

<table>
<thead>
<tr>
<th>Operator Name</th>
<th>Operator ID</th>
<th>Field ID</th>
<th>Field Name</th>
<th>Well Serial Num</th>
<th>Well Name</th>
<th>Well Num</th>
<th>Well Status Code</th>
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<tr>
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<td>PLUGGED AND ABANDONED</td>
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<td></td>
<td>17001003040000</td>
<td>01-JUN-1978</td>
<td>06-JUL-1948</td>
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<td></td>
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<td>115648</td>
<td>HAYES SU P C MARAIST</td>
<td>002</td>
<td>3D</td>
<td>PLUGGED AND ABANDONED</td>
<td></td>
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<td></td>
<td>17001200050000</td>
<td>01-JAN-1979</td>
<td>26-AUG-1966</td>
</tr>
</tbody>
</table>
Receive a time-out error? Refresh the page to reload the query.
SONRIS - Lite

- Allows queries without using any plug-ins; only native web browser functionality
- Live- once keyed into database, available in Lite
- Access data from database to copy and analyze
- Lite is a great resource IF specific parameter at hand
- Multiple Lite options

Wells By Organization Name is a great tool to pull all wells by operator – ie, can be used for multi-well operator changes
Key in a portion of operator name
SONRIS - Lite

- Results are all operators with “SMITH” in organization name
- Organization ID is a link to all wells currently in that operator’s name
  - Includes active and inactive wells
  - Does not include wells that are no longer operated by operator (ie, transferred to different operator)
Yields no results, which indicates this operator is not currently operating wells. Either:

- Operator never operated wells, or
- All wells have been transferred to a different operator prior to being plugged
Let’s try a different operator with wells…
**SONRIS - Lite**

Yields wells! Hyperlinks provide more specific information on the well or other criteria selected (ie, Field Code, Operator Code, etc.)
SONRIS - Lite

Older well that was active for less than a year. Let’s pull another well!
If the Serial Number is known, select the Lite hyperlink in the line of Wells By Serial Number.
SONRIS - Lite

LDNR Office Of Conservation
Well Information

Enter The Well Serial Number: **236746**

Submit

Key in serial number of interest, select Submit
SONRIS - Lite

Well Information

![Well Information Table]

- **Link to well file documents**
- **Link to Blackbooks**
- **Data from permit or next best source**
- **Coordinates converted from 1927 (provided in permit) to 1983**

**Well Information Table**

<table>
<thead>
<tr>
<th>SERIAL</th>
<th>WELL NAME</th>
<th>WELL NUM</th>
<th>ORG ID</th>
<th>FIELD</th>
<th>PARISH</th>
<th>PROD TYPE</th>
<th>SEC</th>
<th>TWN</th>
<th>RGE</th>
<th>EFFECTIVE DATE</th>
<th>API NUM</th>
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<tbody>
<tr>
<td>236746</td>
<td>CV RA SU61; SAM W SMITH 28</td>
<td>002-ALT</td>
<td>A1760</td>
<td>2360</td>
<td>09</td>
<td>20</td>
<td>028</td>
<td>15N</td>
<td>12W</td>
<td>07/01/2016</td>
<td>17017343920000</td>
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</tbody>
</table>

**Well Surface Coordinates**

- **Surface Longitude**: 93.36-9
- **Surface Latitude**: 32-15-51.2
- **Lambert X**: 1659209
- **Lambert Y**: 582913
- **Ground Elevation**: 139.4
- **Zone**: N
- **Datum**: NAD-27

**Well Surface Coordinates Generated by DNR**

- **UTM X 83**: 443236.34465186
- **UTM Y 83**: 3569920.91474766
- **View GIS**
- **Latitude 83**: 32.26456679

**Bottom Hole Coord**

<table>
<thead>
<tr>
<th>EFFECTIVE DATE</th>
<th>END DATE</th>
<th>PLUGBACK TOTAL DEPTH</th>
<th>TRUE VERTICAL DEPTH</th>
<th>MEASURED DEPTH</th>
<th>LAT DEG</th>
<th>LAT MIN</th>
<th>LAT SEC</th>
<th>LONG DEG</th>
<th>LONG MIN</th>
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<td>9715</td>
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</tr>
<tr>
<td>01/14/2008</td>
<td>02/03/2008</td>
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<td>0</td>
<td>0</td>
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<td>0</td>
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<td>11/29/2007</td>
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</table>

**Well History**

<table>
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<td>02/04/2008</td>
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<tr>
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<td>20</td>
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<td>06/30/2016</td>
<td>02/04/2008</td>
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<tr>
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<td>11/29/2007</td>
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</table>
**SONRIS - Lite**

**Data from WH-1, Form Comp**

<table>
<thead>
<tr>
<th>BOTTOM HOLE COORD</th>
<th>EFFECTIVE DATE</th>
<th>END DATE</th>
<th>PLUGBACK TOTAL DEPTH</th>
<th>TRUE VERTICAL DEPTH</th>
<th>MEASURED DEPTH</th>
<th>DAY</th>
<th>DEG</th>
<th>MIN</th>
<th>SEC</th>
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<td>9715</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Tabular format well history from Standard**

**Keyed into Standard by District based on weekly drilling reports**
SONRIS - Lite

Data from Form Comp

Tests from semi-annual DM1R/DT1 or from potentials

Allowables - assigned by District
SONRIS - Lite

**LUW History by SN**

<table>
<thead>
<tr>
<th>LEASE/UNIT/WELL ASSOCIATION HISTORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFFECTIVE DATE</td>
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<tr>
<td>02/04/2008</td>
</tr>
</tbody>
</table>

**Production from OGP**

**SN association by LUW**

**Data from WH-1**

**Data from P&A Report**

**Work Permits keyed in by District***

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*Note – Lafayette District began keying in work permits April 2012; Monroe and Shreveport began using the feature Spring 2016*
LUW – Production Code

LUWs are codes assigned to wells to report production. Multiple wells share the same LUW in the following instances:

- On the same lease and same product (LUWs are oil or gas)
- In the same unit operated by the same operator

A single well can have multiple LUWs throughout its life:

- Permitted and completed as a gas lease well
- Unit formed; unit LUW assigned
- Recompleted to an oil lease sand

Therefore, must review LUW history to determine which wells are associated with the production!
Wells by LUW is a great feature to review well associations with LUWs
SONRIS - Lite

LDNR Office Of Conservation

Well By LUW

Enter The LUW Code: 612361

Select a LUW Type:

LUW Type: 2-UNIT

Submit

If LUW type is unknown, select 0-ALL Types
Wells without end dates are currently associated with the LUW. Therefore, production associated with this LUW can come from either or both wells.
SONRIS - Standard

- Interactive reports that replace SONRIS external forms
- Live- once keyed into system, available for public access
- Great search tool to limit population to review

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SONRIS - Standard

- Works well in any browser
### SONRIS - Standard

#### SONRIS Data Portal

**Well Profile**

<table>
<thead>
<tr>
<th>Well Serial Num</th>
<th>Well Name</th>
<th>Well Num</th>
<th>Operator ID</th>
<th>Operator Name</th>
<th>Field ID</th>
<th>Field Name</th>
<th>Product Type Code</th>
<th>Product Type Code Description</th>
<th>Well Status Code</th>
<th>Well Status Code Description</th>
<th>Well Status Date</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ET ROBINSON</td>
<td>003</td>
<td>9999</td>
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<td>9715</td>
<td>WILDCAT-NO LA SHREVEPORT DIST</td>
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<td>01-OCT-1935</td>
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<tr>
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</tbody>
</table>

*Organization has been flagged.*

---

**SON - 003**

---

**Notes (Well only, not unit)**

Go  Actions
SONRIS - Standard

SONRIS Data Portal

Well Profile

Search: 236746

<table>
<thead>
<tr>
<th>Operator ID</th>
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<th>Field ID</th>
<th>Field Name</th>
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<th>Product Type Code Description</th>
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SONRIS - Standard

Select this dropdown menu to view other records associated with the serial number
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*Organization has been flagged.

### 236746 - CV RA SU61; SAM W SMITH 28 - 002-ALT

**Allowables**
- Allowables
- Bottom Hole Coordinates
- Casings
- Conditions
- Disposition Information
- History
- LUW Association
- Oil and Gas Production
- Perforations and Injection Zones
- Plug and Abandon
- Surface Coordinates
- Tests
- Tubings and Packers

**LUW Code** | **LUW Type Code** | **LUW Type Code Description** | **Allowable** | **Estimated Potential**
--- | --- | --- | --- | ---
612361 | 2 | UNIT | 57 | 5
612361 | 2 | UNIT | 68 | 6
612361 | 2 | UNIT | 59 | 5
612361 | 2 | UNIT | 90 | 9
612361 | 2 | UNIT | 84 | 8
612361 | 2 | UNIT | 84 | 8
612361 | 2 | UNIT | 139 | 13
612361 | 2 | UNIT | 119 | 11
**SONRIS - Standard**

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*Organization has been flagged.*

**236746 - CV RA SU61:SAM W SMITH 28 - 002-ALT**

![Oil and Gas Production](image)

**Oil and Gas Production Information**

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1 - 50 of 174
SONRIS - Standard

SONRIS Data Portal

Select current filter to view additional filter options or to change the parameter

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*Organization has been flagged.

236746 - CV RA SU61; SAM W SMITH 28 - 002-ALT

Oil and Gas Production

Production Information
SONRIS - Standard

SONRIS Data Portal

Filter

Filter Type  Column  Row

Column
Well Serial Num  Operator  Expression
contains  236746

Cancel  Delete  Apply

236746 - CV RA SU61;SAM W SMITH 28 - 002-ALT

Oil and Gas Production

Production Information
SONRIS - Standard

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[Filter Type: Column]

**Filter Type**
- Column

**Operator**
- >
- =
- >=
- <=
- is null
- is not null
- like
- not like
- in
- not in
- contains
- does not contain
- matches regular expression
- between
SONRIS - Standard

Select the icon in the leftmost column to toggle between parent records.
SONRIS - Standard

- Organizations (OR-1) Information displays current contact information, red flag history, and more
# SONRIS - Standard

## SONRIS Data Portal

### Organization Search

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<th>Charter Organization ID</th>
<th>Federal Operator ID</th>
<th>Organization SOS Name</th>
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### Addresses

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46 / 19045
### SONRIS - Standard

#### Addresses

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<tbody>
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<td>4855 FAIRWAY VIEW</td>
<td>SHREVEPORT</td>
<td>LA</td>
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<td><a href="mailto:BURTONOGR@AOL.COM">BURTONOGR@AOL.COM</a></td>
<td>BURTON OIL &amp; GAS REPORTING SERVICE, LLC</td>
<td>P.O. BOX 351</td>
<td>VIVIAN</td>
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<td>710820000</td>
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<td><a href="mailto:PRMACHOWSK1@AOL.COM">PRMACHOWSK1@AOL.COM</a></td>
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1 - 1 of 1
SONRIS - Standard

- Financial security by operator – active instruments
SONRIS – Document Access

- Database for scanned documents
- Source of data for most Data Portal applications (Lite, IDR, GIS)
- Must know specific reference to access documents
SONRIS – Document Access

- Works well in any browser
SONRIS – Document Access

Well documents by serial number can be found under “Well Permit to Drill/Amend”
Key in serial number, select “Get associated documents,” then select search
SONRIS – Document Access

- **Documents are indexed by type and initially sorted by effective date**
  - Well Permit to Drill/Amend = Permit documents
  - Well Engineering/Mechanical = WH-1, Form Comp, Casing Affidavits, etc.
  - Lease Facility Inspection Report = Reports filed by Conservation’s Field Staff
  - Well File Historic = All well documents prior to 2000
SONRIS – Document Access

Field Order summaries can be found in the “Field Order Index-Black Books”
SONRIS – Black Books

Black Books got a new look in November 2021!

Enter search criteria:

See Field ID in Field Listing

Moved from Document Access

Get associated documents

Cartridge links in Field Listing display data. IDR allows for export to Excel.
# SONRIS – Black Books

## LDNR Office Of Conservation Field Listing

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<thead>
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## Cartridge

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<td>20-181 - TANOS EXPLORATION II, LLC - Order concerning the creation of one (1) additional drilling and production unit for the Hill Zone, Reservoir B.</td>
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<tr>
<td>07/02/2019</td>
<td>99-A-4</td>
<td>19-290</td>
<td>Tanos Exploration II, LLC</td>
<td>19-290 - TANOS EXPLORATION II, LLC - Order concerning permission to designate and utilize one (1) additional alternate unit well at an exceptional location for DAVIS SUG.</td>
</tr>
</tbody>
</table>
SONRIS – Black Books

SONRIS Data Portal

Office of Conservation - Blackbooks - Field Order Index

Report Parameters

Field ID  | Field Name  | Content
---------|-------------|---------
          |             | Austin  

IDR – Content parameter queries across the entire state

SONRIS Data Portal

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Field Name</th>
<th>Effective Date</th>
<th>Order Number</th>
<th>Docket Number</th>
<th>Applicant</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455</td>
<td>BAYOU ANACOCO</td>
<td>22-APR-1997</td>
<td>1411-A</td>
<td>97-222</td>
<td>-</td>
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<td>0455</td>
<td>BAYOU ANACOCO</td>
<td>04-FEB-2011</td>
<td>1411 AND 1141-A SUPP</td>
<td>-</td>
<td>ANADARKO E&amp;P COMPANY, LP - Supplemental Order concerning termination of the AUSTIN CHALK ZONE, RESERVOIR A SUA, SUB and SUE. (29-L-1)</td>
<td></td>
</tr>
<tr>
<td>0800</td>
<td>BAYOU JACK, NORTH</td>
<td>18-MAY-1992</td>
<td>1042-A</td>
<td>92-130</td>
<td>-</td>
<td>92-130 - Franchebois and Coulon Interests - Order concerning the establishment of rules and regulations and the creation of a single horizontal drilling and production unit for the Austin Chalk Zone, Res. A.</td>
</tr>
<tr>
<td>0800</td>
<td>BAYOU JACK, NORTH</td>
<td>01-JUL-1992</td>
<td>1042-A-1</td>
<td>92-239</td>
<td>-</td>
<td>92-239 - Sonat Exploration Company - Order concerning the creation of sixteen (16) additional horizontal drilling and production units for the Austin Chalk Zone, Reservoir A, 92-245 - Cliffs Oil and Gas Company - Order</td>
</tr>
</tbody>
</table>
SONRIS – Document Access

Specific Orders can be searched by Order number under “Field Order”
SONRIS – Document Access

- To view all options alphabetically, select Document Type, then select preferred criteria.
SONRIS - GIS

- Interactive map with many detailed layers
- Great tool to spatially identify information
- Wells without coordinates do not plot; as such, always cross check with IDR, Lite, and Document Access
SONRIS - GIS

- Works well in Chrome

- Two main components:
  - Interactive Maps Menu
  - Table of Contents
SONRIS - GIS

Interactive Menu

- Layers
  - Table of Contents – turns view on or off
  - Overview – displays State overview map
  - Legend – turns view on or off; displays legend of activated layers
Interactive Menu, continued

- **Area of Interest**
  - AOI Toolbox includes select by polygon feature to buffer searches

- **Bookmarks** — saves a view of the map for users to return to later

**SONRIS - GIS**
Interactive Menu, continued

- Export – exports current view to PDF or JPG
- Navigation
  - Zoom in
  - Zoom out
  - Pan
  - Return to home
  - Last extent
  - Next extent
SONRIS - GIS

Table of Contents
- Layer Features
  - Layer on
  - Layer off
  - Labels on
  - Labels off
  - Identify
  - Select by rectangle
  - Search by criteria
  - Filter
  - Export data
  - Metadata
Oil and gas well data is available under “Oil/Gas”
Some layers require the map to be zoomed in before they can be displayed. Select the magnifying glass to zoom.
SONRIS - GIS

- Select box to right of criteria to display feature on map.

Use the pan tool to move your view with the mouse

Or, search by specific parameter
Select category from drop down menu, key in data, then select Submit Query
SONRIS - GIS

Select magnifying lens to the left of results to “fly” to that location
SONRIS - GIS

Scroll down to activate other layers, such as Section-Township-Range (located under Boundaries)
When the “A” is green, that layer’s labels are displayed
Aerials and other imagery are available under Imagery and Maps.
Can search by address or coordinates as well!
Questions?

Please contact the Engineering Administrative Division for more information! Thank you!

www.dnr.louisiana.gov/consdirectory

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