LOUISIANA DEPARTMENT OF NATURAL RESOURCES

Tuscaloosa Marine Shale Louisiana Activity Update

By

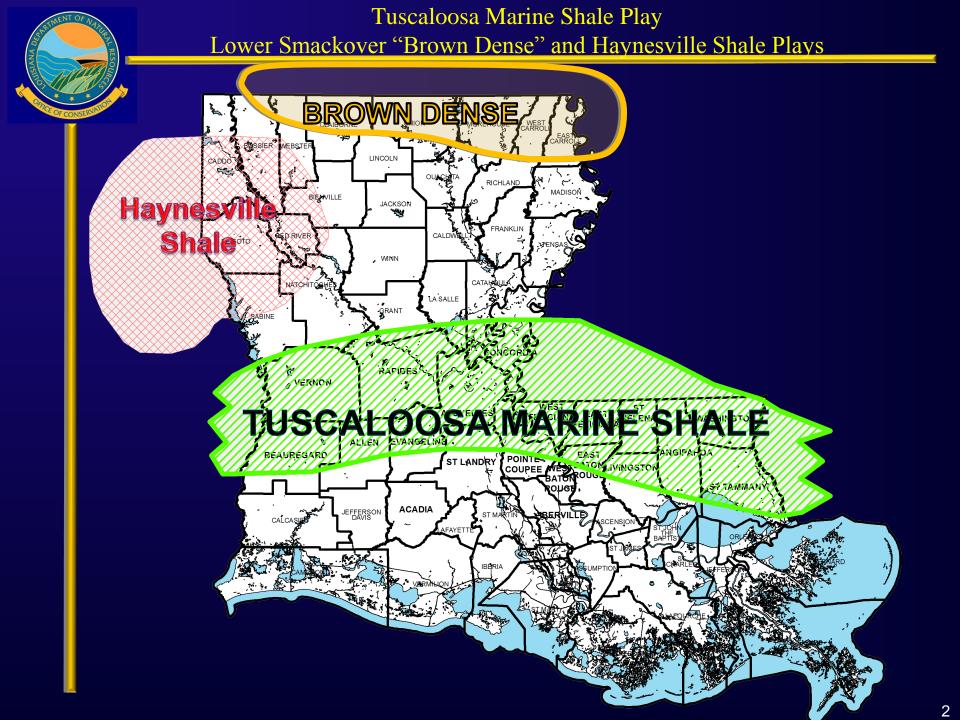
James H. Welsh Commissioner of Conservation

> David P. Elfert Office of Conservation

And

Louis Temento Louisiana Office of Mineral Resources

> March 27, 2014 West Feliciana Parish





Challenges of Resource Plays

- Resource or source rock plays-where hydrocarbons originated
- Extraction of hydrocarbons that have not migrated out
- Large geographic area involved
- Requires high technology methods
- Horizontal drilling for increased surface area to make venture economical
- Hydro-fracturing "Fracking"
- Large amounts of water for fracking
- Flowback water management
- Long lateral lengths requiring large pooled units to meet economic needs
- Quick regulatory action to meet new economical and environmental needs
- Cross Unit Laterals
- Low natural gas prices
- Urban drilling activity-environmental concerns/solutions

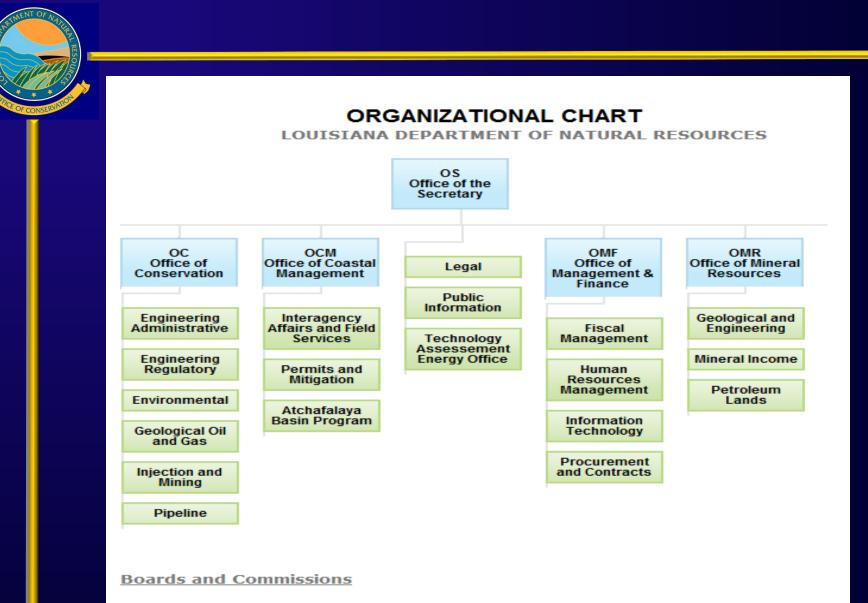


WHAT IS THE TMS?

Tuscaloosa Marine Shale (TMS)

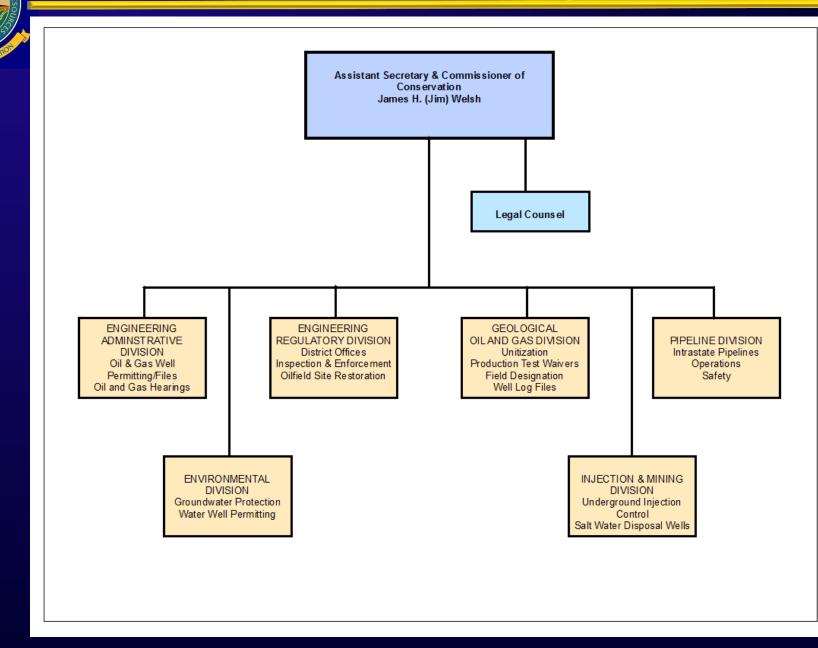
- Sedimentary rock composed of compacted, lithified clays and very fine sand grains (silt)
- Contains oil generated from organic matter deposited with the sediments
- Oil held tightly between the clays and silts
- Deposited approximately 90 million years ago, marine (ocean) environment
- Depth ranges from -13,000 feet to > -15,000 in E-W Feliciana area
- Approximately -15,000 feet in Ethel Field, East Feliciana Parish
- Will require horizontal wells with long lateral length and hydraulic fracturing to extract the oil economically
- Economics still uncertain, play is in early stages of development
- 1997 LSU study provides in-depth look at the play/Originally exploited in 1975
- Callon, Texas Pacific original operators in TMS
- Encore, Devon, Encana and Indigo II LA. (western "Eagle Ford" part of trend) early operators
- EOG, Justiss Oil Co., Conterra, Halcon, Goodrich latest operators to enter the TMS play



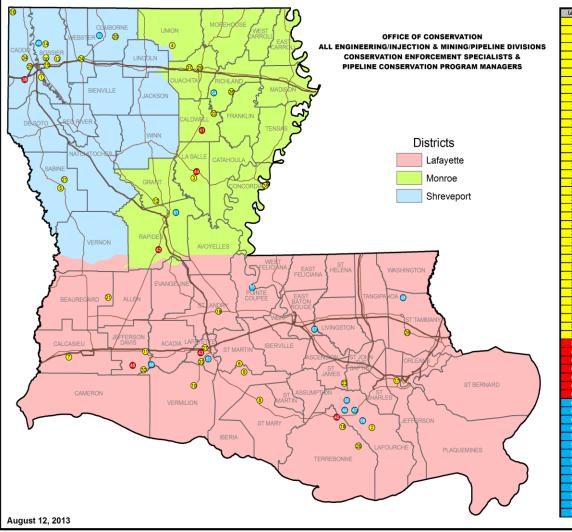


Atchafalaya Basin Research and Promotion Board Atchafalaya Basin Technical Advisory Group Oilfield Site Restoration Commission Oyster Lease Damage Evaluation Board State Mineral and Energy Board Water Resources Commission Water Management Advisory Task Force

Office of Conservation Organization



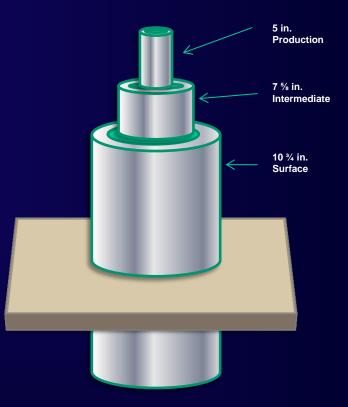




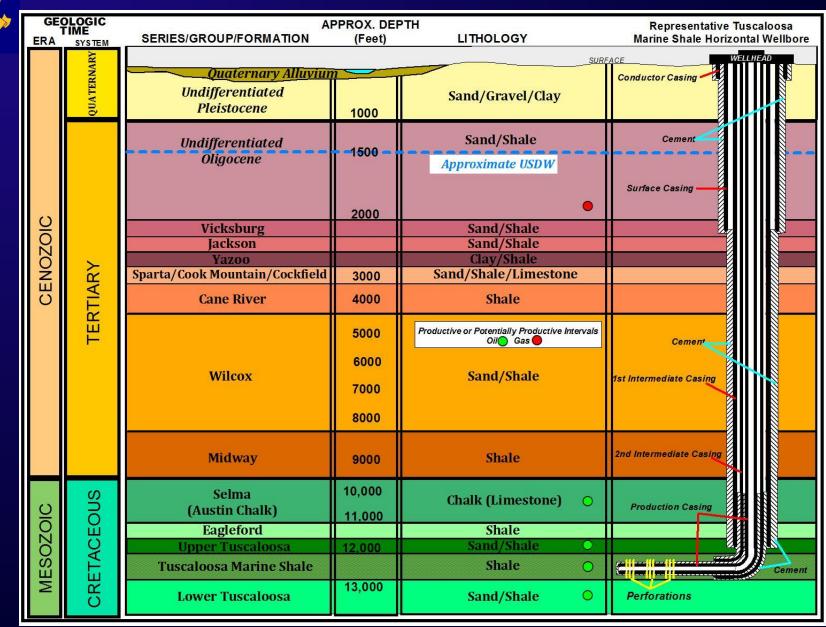
Label	Name	City	Division			
Laber 1	David Adams	Shreveport	Engineering			
2	Keith Adams	Lockport	Engineering			
3	Twyman Appleby	Trout				
3	James "Ronnie" Atkins	Downsville	Engineering			
	David Barnhill		Engineering			
5		Many	Engineering			
	Bret Barras	Saint Martinville	Engineering			
7	Byron Chamblee	Sulphur	Engineering			
8	Charles "Chuck" Cloutier, Jr.	Franklin	Engineering			
9	Lyn Decuir	Loreauville	Engineering			
10	Dan Devenport	Abbeville	Engineering			
11	Joe Durham	Jennings	Engineering			
12	Robbie J. Edwards	Colfax	Engineering			
13	Henry Steven Fomby	Haughton	Engineering			
14	Richard Guice	Benton	Engineering			
15	Wilton "Rick" Guice	Bossier City	Engineering			
16	Gerald Humphrey	Rodessa	Engineering			
17	Shawnery Jones	New Orleans	Engineering			
18	Joseph LaGarde IV	Houma	Engineering			
19	Charles "Keith" Marks	Port Barre	Engineering			
20	Jerry Mathewes	Homer	Engineering			
21	Franklin L. Moore	Many	Engineering			
22	James Heath Mott	Columbia	Engineering			
23	Selma Oubre	Vacherie	Engineering			
24	Charles Posey	Minden	Engineering			
25	Richard Robertson	Shreveport	Engineering			
26	Ray Robichaux	Montegut	Engineering			
27	Marion "Butch" Romero	Scott	Engineering			
28	John T. Schell	Mandeville	Engineering			
29	Lacey Smith					
	William "Bill" Sniffen	West Monroe	Engineering			
30		Haughton	Engineering			
31	Richard "Wayne" Soileau	Dry Creek	Engineering			
32	Leo "Kenneth" Sonnier	Lake Arthur	Engineering			
33	Mike Theriot	Lafayette	Engineering			
34	Georgiana Violet	Shreveport	Engineering			
35	Kenneth C. Ware	Vidalia	Engineering			
36	Donald G. Womack	Mangham	Engineering			
37	Lee W. Wooldridge	West Monroe	Engineering			
38	Vacant					
39	Peter L. Bradford	Shreveport	Injection & Mining			
40	William L. Cames	Houma	Injection & Mining			
41	Rex L. Darden	Grayson	Injection & Mining			
42	Jasper W. Hebert	Forest Hill	Injection & Mining			
43	Sarah Hitchcock	Lafayette	Injection & Mining			
44	William E. Jones	Jena	Injection & Mining			
45	Kevin Sonnier	Lake Arthur	Injection & Mining			
46	Dana Arabie, CPM	Raceland	Pipeline Safety			
47	Paul M. Arabie	Raceland	Pipeline Safety			
48	Walter E. Blocker, Jr.	Covington	Pipeline Safety			
49	James Burns	Benton	Pipeline Safety			
50	Mark Champagne, CPM	Raceland	Pipeline Safety			
50	Phillip J. Cole	Pineville	Pipeline Safety			
51	Ronald Day, CPM	Homer	Pipeline Safety			
52	Brian D. Flores					
53 54		Lafayette	Pipeline Safety			
	Tina W. Guilliams	Rayville	Pipeline Safety			
55	Troy Laurent	Morganza	Pipeline Safety			
56	Wayne O. Leger	Lake Arthur	Pipeline Safety			
57	Jorge Morice	Baton Rouge	Pipeline Safety			
58	Jacques Rotolo	Lockport	Pipeline Safety			
59	Vacant					



- Construction requirements result in protection of USDW and isolation of hydrocarbon bearing zones.
 - Multiple casing strings
 - Minimum setting depth
 - Cement requirements
 - Pressure testing



T.M.S. Generalized Horizontal Well

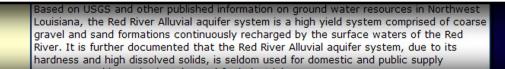




Ground Water Use Advisory



Therefore, if ground water must be used for drilling or hydraulic fracture stimulation purposes, it is recommended that the Red River Alluvial aquifer be utilized for these purposes, where feasible, as the source of ground water supply in lieu of the Carrizo - Wilcox aquifer.



Carrizo - Wilcox aguifer is used as the main source of drinking water supply for domestic

The Commissioner further encourages oil and gas operators to use the available surface water resources or other acceptable alternative water sources in Northwest Louisiana, where practical and feasible.

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Provided below are links to published documents, resources and references available for water quality and use in Northwest Louisiana. If you have any questions or need further clarification, please contact Environmental Division staff at 225-342-8244 or by email at http://dnr.louisiana.gov/gwater.

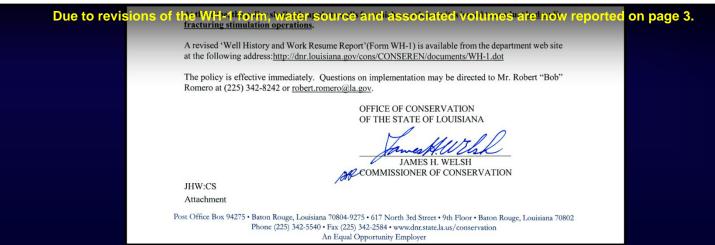
Directive for Frac Water Reporting



State of Louisiana SCOTT A. ANGELLE BOBBY JINDAL SECRETARY GOVERNOR DEPARTMENT OF NATURAL RESOURCES JAMES H. WELSH OFFICE OF CONSERVATION COMMISSIONER OF CONSERVATION MEMORANDUM September 15, 2009 TO: All Concerned FROM: James H. Welsh **Commissioner of Conservation** SUBJECT: **Reporting Requirements for Water Use in E&P Operations**

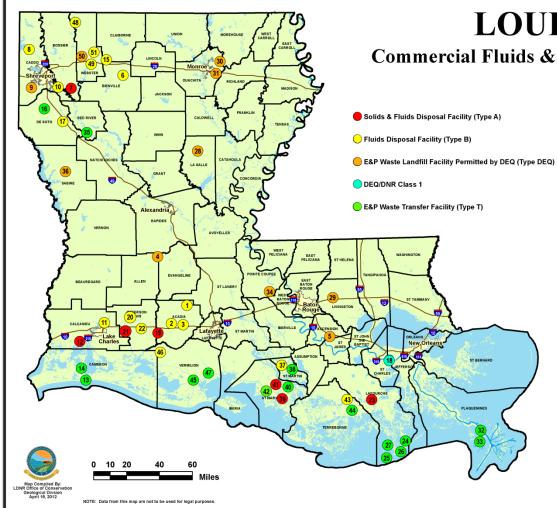
To promote effective groundwater resource management and to aid in the development of policies and regulations to protect these resources, it is the policy of this Office to require the reporting of information related to water use in drilling, completion, stimulation and workover operations.

Specifically, the water source and associated volume must be reported on page two (2) of the 'Well History and Work Resume Report'(Form WH-1) which must be filed within twenty days after completion or recompletion operations. The water sources must be identified by either the water well number or water body name, as appropriate. Separate water volumes for rig supply use and stimulation operation use must be provided. A completed example of page two (2) of the 'Well History and Work Resume Report'(Form WH-1) is attached.





- Exploration & Production (E&P) Wastes primarily include:
 - Drilling fluids
 - Flowback water
 - Produced water
- E&P Waste regulations ensure proper disposal to minimize environmental impacts of resource development.
- Manifest and reporting systems ensure transparency and accountability.
- Waste Management options include:
 - Onsite disposal using conservative limiting criteria
 - Well injection
 - Commercial disposal
 - Recycling in limited cases



LOUISIANA **Commercial Fluids & Solids Disposal Facilities**

Facility Name

HI dba Guillory Tank Truck Se

aline Injection Systems Co.

3	Habetz Oilfield Saltwater Service	Acadia	Fluids
4	IESI - Timberlane Landfill	Allen	E&P Waste Landfill Permitted by DEQ
5	BFI - Colonial Landfill	Ascension	E&P Waste Landfill Permitted by DEQ
6	Bear Creek Environmental Systems	Bienville	Fluids
	U S Liquids - Elm Grove	Bossier	Solids/Fluids
8	Key Energy Services - Oil City	Caddo	Fluids
9	Woolworth Landfill	Caddo	E&P Waste Landfill Permitted by DEQ
10	CCS - Shreveport SWD	Caddo	Fluids
11	Louisiana Tank	Calcasieu	Fluids
	Chemical Waste Management	Calcasieu	Solids/Fluids
13	Newpark - Cameron	Cameron	Transfer Station
14	U S Liquids - Cameron	Cameron	Transfer Station
15	Key Energy Services - Athens	Claiborne	Fluids
16	Heckmann Water Resources Corp	De Soto	Transfer Station
17	Pinnergy, Ltd	De Soto	Fluids
18	River Birch - Avondale	Jefferson	E&P Waste Landfill/Class 1 Fluids
	U S Liquids - Mermentau	Jefferson Davis	Solids/Fluids
20	SWD Inc.	Jefferson Davis	Fluids
	MBO, Inc. Lacassine	Jefferson Davis	Solids/Fluids
22	Charles Holston - Jennings	Jefferson Davis	Fluids
	U S Liquids - Bourg	Lafourche	Solids/Fluids
24	Newpark - Fourchon I	Lafourche	Transfer Station
25	U S Liquids - Fourchon I	Lafourche	Transfer Station
26	Newpark - Fourchon II	Lafourche	Transfer Station
27	U S Liquids - Fourchon II	Lafourche	Transfer Station
28	LaSalle/Grant Landfill	LaSalle	E&P Waste Landfill Permitted by DEQ.
29	Woodside Landfill	Livingston	E&P Waste Landfill Permitted by DEQ.
30	CWI - White Oaks Landfill	Ouachita	E&P Waste Landfill Permitted by DEQ.
31	Magnolia Landfill	Ouachita	E&P Waste Landfill Permitted by DEQ
32	Newpark - Venice	Plaquemines	Transfer Station
33	U S Liquids - Venice	Plaquemines	Transfer Station
34	Reliable Landfill	Pointe Coupee	
35	U S Liquids - Red River	Red River	Transfer Station
36	IESI - Sabine Landfill	Sabine	E&P Waste Landfill Permitted by DEQ
37	FAS Environmental	St. Martin	Fluids
38	FAS Environmental	St. Martin	Transfer Station
39	U S Liquids - Bateman Island	St. Mary	Solids/Fluids
40	Newpark - MCY	St. Mary	Transfer Station
41	PSC Industrial Outsourcing	St. Mary	Solids/Fluids
42	U S Liquids - MCY	St. Mary	Transfer Station
43	HoumaSWD	Terrebonne	Fluids
44	HoumaSWD	Terrebonne	Transfer Station
45	Newpark - ICY	Vermilion	Transfer Station
46	Charles Holston - Gueydan	Vermilion	Fluids
47	U S Liquids - ICY	Vermilion	Transfer Station
48 49	Nabors Well Services	Webster	Fluids
49 50	Lebus Oilfield Service Webster Parish Landfill	Webster Webster	Fluids
50	Stateline Vacuum Services	Webster	E&P Waste Landfill Permitted by DEQ Fluids
51	staterine vacuum Services	webster	Fluids

Parish

Facility Type Fluids



LAC 43:XIX.118

- Effective as of October 20, 2011
- Must file application with and receive work permit to hydraulically frack from the appropriate district office (Lafayette, Shreveport, & Monroe) prior to beginning fracking operations. Sec. 118.B.
- Following completion of hydraulic fracturing the operator must file a Well History and Work Resume Report (Form WH-1) in accordance with Sec. 105 & Sec. 118.C.
- LAC 43:XIX.105 requires:
 - At least 12 hours prior notice must be given to the manager of the appropriate district office, so that a Conservation representative may have a chance to witness the fracturing operations.
 - Within 20 days of completing work under the work permit, the work must be described on the Well History and Work Resume Report and submitted to the appropriate district office.



What Must Be Reported?

- With the Well History and Work Resume Report (Form WH-1), the following information must be reported:
 - Types and volumes (in gal.) of hydraulic fracturing fluid used in the operation.
 - A list by type of all additives used during hydraulic fracturing operations. Specifically list the following for each type:
 - Specific trade name and suppliers.
 - List of chemical ingredients in fracturing fluid subject to requirements of 29 CFR 1910.1200(g)(2) and their associated CAS numbers. Also specify for each chemical ingredient:
 - Maximum ingredient concentration within the additive expressed as a chemical by mass of each chemical ingredient;
 - Maximum concentration of each chemical ingredient expressed as a percentage by mass of the total volume of hydraulic frac fluid used.



How to Report?

- On the Work History/Well Resume Report (Form WH-1) submitted to the appropriate district office within 20 days of completion of the hydraulic fracturing operations.
- Frac Focus Chemical Disclosure Registry online accessible registry sponsored by Groundwater Protection Council and the Interstate Oil & Gas Compact Commission.
 - Fracfocus.org
 - Search for specific well information by location, operator, well name, etc.
 - Under new reporting requirements, must report within 20 days of completion of hydraulic fracturing operations.
 - Reporting on Frac Focus does not fully replace WH-1 Requirement.
- Similar Publicly Available Websites.



Confidential Information

- Like similar statutes or regulations in other jurisdictions, the new fracturing information reporting requirements provide that specific chemical ingredient identity and CAS numbers entitled to trade secret designation pursuant to 29 CFR Sec. 1910.1200(i), do not need to be reported.
- When a trade secret is claimed by the party entitled to make such a claim, then the following information must be provided:
 - The chemical family of the trade secret ingredient; and
 - A statement claiming that trade secret protection is being made.
 - Statement may be as simple as stating that the ingredient is "privileged", "proprietary" or a "trade secret."
- Despite this protection, no party can withhold trade secret information from a health care professional when such disclosure is required by state or federal law.

TMS ACTIVITY UPDATE

- Wells
- Units
- Production
- How to Access Information



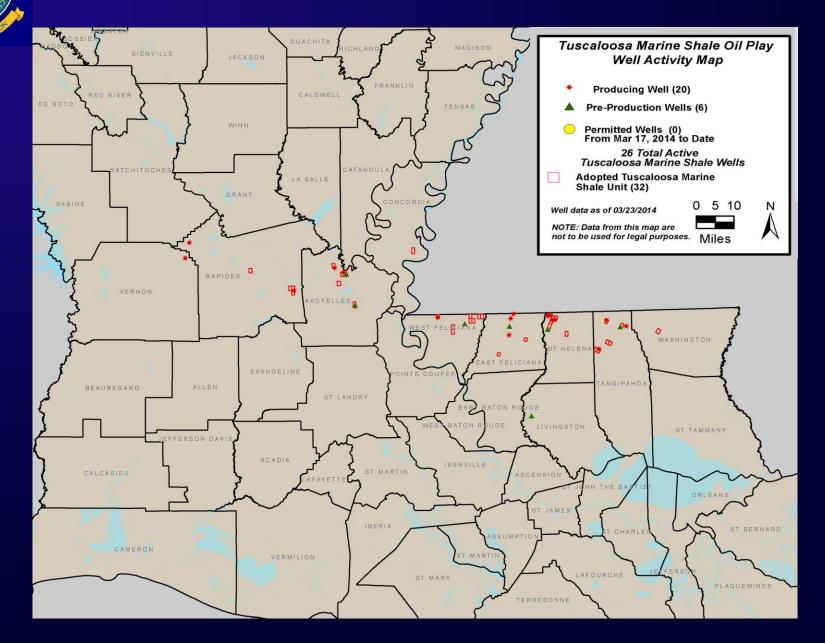
- 26 Hearings held to date
- 32 Units adopted to date
- 1 Upcoming hearing for Little Comite Creek Fld. on April 15

•Units configured to accommodate long horizontal laterals

•Unit Sizes: Dependent upon operators' ability to drill horizontal laterals to a length that fits their individual economics and technical expertise as well as their geological interpretation

•Unit Sizes range from 720 acres (East Feliciana Parish, Ethel Field) to 1348 acres (Concordia Parish, North Bougere Field); approximately one mile wide by the approximate proposed horizontal lateral length.

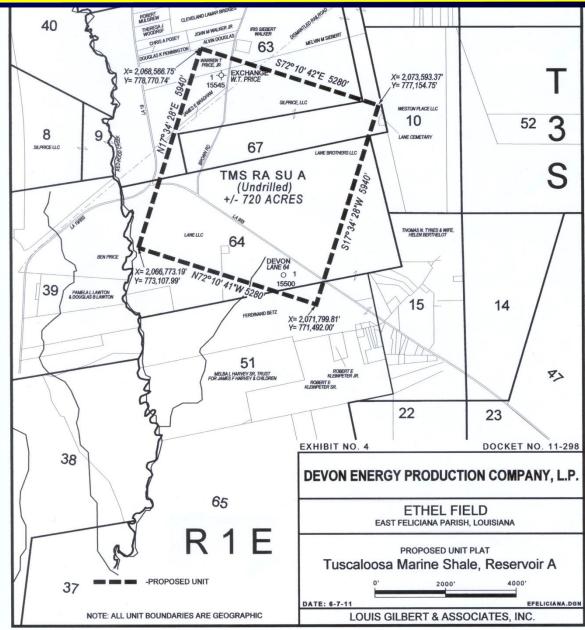
SONRIS Interactive TMS Map



FIRST TMS UNIT FORMED IN LA.

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TMS Production by Unit/Well

OF

ANA A

Field Name	Parish	Well Name/Unit Name	Cumula	ative Pr	od. (bbls.)
Baker Creek	West Feliciana	Murphy 63H #1 - TMS RA SUA	48755		
Lake Rosemound	West Feliciana	TMS RA SUA		-	
Bayou Sara	West Feliciana	TMS RA SUA		-	
Spillman	West Feliciana	TMS RA SUA & SUB		-	
Northeast Spillman	West Feliciana	TMS RA SUA		-	
Richland Plantation	East Feliciana	Richland Plantation A No. 1	13753		
Richland Plantation	East Feliciana	Richland Farms Inc. 74 H No. 1	64904		
Beech Grove Plantation	East Feliciana	Beech Grove Land Co. 68H No. 1	14498		
Ethel	East Feliciana	TMS RA SUA;Lane 64 NO. 1	76		
Clinton	East Feliciana	TMS RA SUA		-	
North Chipola	St. Helena	Weyerhaeuser No. 1	36934		
North Chipola	St. Helena	Weyerhaeuser 60H No. 1	28,426 *		
North Chipola	St. Helena	Weyerhaeuser 60H No. 2	28,426 *		
North Chipola	St. Helena	TMS RA SUD	36,331 (July,	2013 - Dec. 21	103)
North Chipola	St. Helena	Weyerhaeuser 73H No. 1	90091		
North Chipola	St. Helena	TM RA SUC	7291		
North Chipola	St. Helena	TMS RA SUA; Weyerhaeuser 72H NO. 1	38736		
Northwest Liverpool	St. Helena	TMS RA SUA; Weyerhaeuser 14H NO. 1	105850		
Little Silver Creek	Tangipahoa	Winfred Blades No. 1	26214		
Little Silver Creek	Tangipahoa	TMS RA SUA		-	
Little Silver Creek	Tangipahoa	TMS RA SUB and SUC		-	
Northwest Wilmer fiel	Tangipahoa	TMS RA SUA and SUB		-	
Fluker	Tangipahoa	TMS RA SUA; Soterra 6H No. 1	33554		
Kentwood	Tangipahoa	TMS RA SUA; Thomas 38H No. 1	72044		
Burnstown	Vernon	Bentley Lumber 32 No. 1	843		
Bayou Twisty	Avoyelles	TMS RA SUA; Dupuy Land Co. 20H No.	55522		
Bayou Twisty	Avoyelles	TMS RA SUB; Dupuy Land Co. 30H No.	34154		
Flatwoods	Rapides	Bentley Lumber 34 H No. 1	9935		
Lake Roseau	Avoyelles	TMS RA SUA; Gauthier 14H No. 1	25174		
Roxana	Rapides	TMS RA SUA; Broadway H No. 1	3798		
Vick	Avoyelles	TMS RA SUA; Paul 15H No. 1	29459		
Oden Lake	Rapides	TMS RA SUA; Lambright H No. 1		-	

TMS Production Totals by Parish And Total cumulative for TMS in Louisiana

Total Production by Parish (from Greatest to Least)

- I. St. Helena = 372,085 bbls.
- 2. Avoyelles = 144,309 bbls.
- 3. Tangipahoa = 131,812 bbls.
- 4. East Feliciana = 93,231 bbls.
- 5. West Feliciana = 48,755bbls.
- 6. Rapides = 13,733 bbls.
- 7. Vernon = 843 bbls.

Total Production = 804,768 bbls.

SONRIS http://sonris.com/ Strategic Online Natural Resources Information System Energy Coastal Management Mineral Resources-State owned lands/water bottoms Conservation

Well Data/Production & Test Data/Unitization Data

GIS-Maps with various land/culture and oil and gas layers

Oil and Gas Hearing Transcripts-Not available online

Unit Survey Plats-Available online

API Offshore Area Code Information Area Code Information Consumer Information District Information DNR Glossary Drip Point Information by Field Drip Point Information by Name Drip Point Information by Organization Facility Code Description Field List by Requested District & Area **Field Listing** Fields by Parish **Group Code Information** LUW Information by Code Number LUW Type Codes Information LUWs by Field LUWs by Name

Location Codes Operation Type Codes Organization Information by Name Organization Ledger Listing-Alpha Organization Ledger Listing-Numeric Organization Type Codes Organizational Mailing Address List Organizations by Parish Parish Code Information Product Type Code Information Retrieve Operator Compliance Details Reservoir Nomenclature Abbreviations Scout Report Codes and Terminology Well Class Type Information Well Status Code List

SONRIS DATA ACCESS – LITE – WELL INFORMATION

Offshore Wells By Parish **Orphan Wells By Parish** Permitted Wells By Date Permitted Wells By Date/Parish **Retrieve Compliance Review By Serial Number Scout Report Information** Severance Tax Relief Report Well Count for Field By Organization Well Count for Organization By Field Well Permits by District Wells by API Number Wells by Field ID Wells by Lambert Coordinates Wells by Lambert Coordinates - Tabular Wells by LUW Wells by Organization Name Wells by Parish Wells by Section, Township and Range Wells By Section, Township, Range By Parish Wells by Serial Number Wells by Specific Field / Operator Wells (Excluding Well Status 03,28,29,30)

Disposition by Field, Operator, Report Date Disposition by Operator, Date and Field Field Production by Parish for a Period Field Production by Year Field Production for an Organization by Month LUW Production By Month LUW Production By Year Louisiana LUW Production by Year Monthly Parish Production for a Period OGP Data Entry (Oil & Gas Production) OGP Ledger by Commingling Facility **OGP Ledger by LUW**

Operator Oil/Gas Production for a Year **Operator Production by Parish Organization Production for a Field** by Month R5D Data Entry (Gas Disposition) R5D DE Disposition by Operator & Field for 3 years **Ranking Gas Production by Field Ranking Gas Production by Operator Ranking Oil Production by Field** Ranking Oil Production by Operator Statewide Monthly Production for a Year Yearly Production by Parish



Public Information

- The majority of information collected by the Office of Conservation is available to the public free of charge through the DNR website – SONRIS (<u>www.sonris.com</u>)
 - Access to the DNR Database
 - Access to map-based (GIS) information (Geographic Information System (GIS)
 - Access to images of documents on file



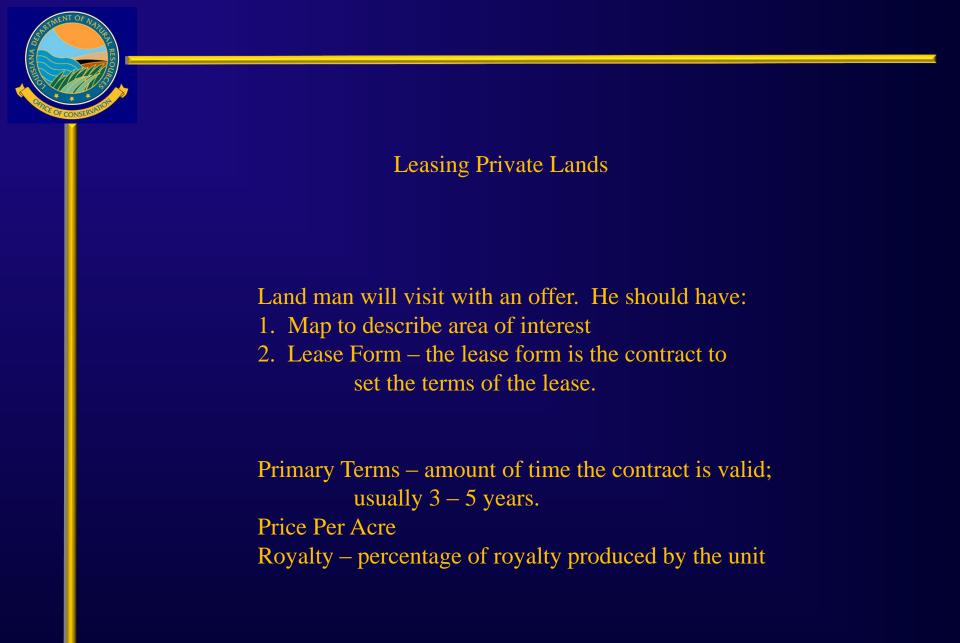
Contact Information

Key personnel to answer questions regarding SONRIS/TMS

Well production information—**Production Audit Section** 225-342-5530 225-342-4500 or 225-342-5265

TMS well/unit information: Geologist Mike Kline 225-342-3335

TMS Page-Conservation Web page-News and Events-Tuscaloosa Marine Shale





Ideas to consider in advance:

Surface Leasing – Separate lease to allow surface facilities Will the well be located on your property?

Unitization - Will you be included in a unit? Royalty payments are dependent on unit participation.

Length of Terms -How deep will the well be? It may take a long time to drill.

Royalty & Price per Acre What is a fair value?

Is it good to be the first or last to lease? Favored nations clause Brokerage firms – broker leases to drilling company for percentage of royalty



Ideas to consider in advance:

What companies are leasing in the area?

1. OMR Interactive Maps

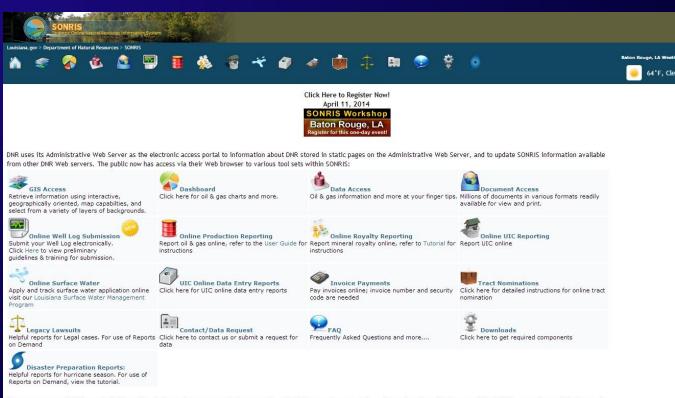
Web based interactive map allows user to select which map features are visible to build a clear view of relative information.



Atchafalaya



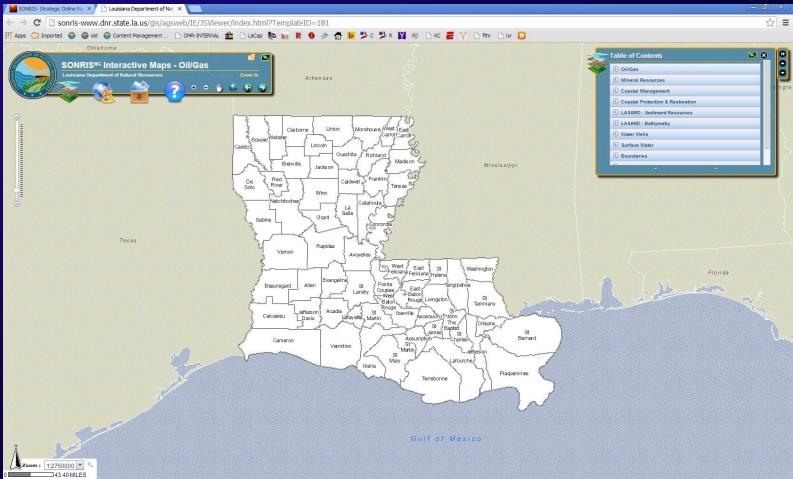
Welcome from DNR Secretary Stephen Chustz and the men and women of the Louisiana Department of Natural Resources who work every day to ensure and promote sustainable and responsible use of the natural resources of our state so that they are available for the enjoyment



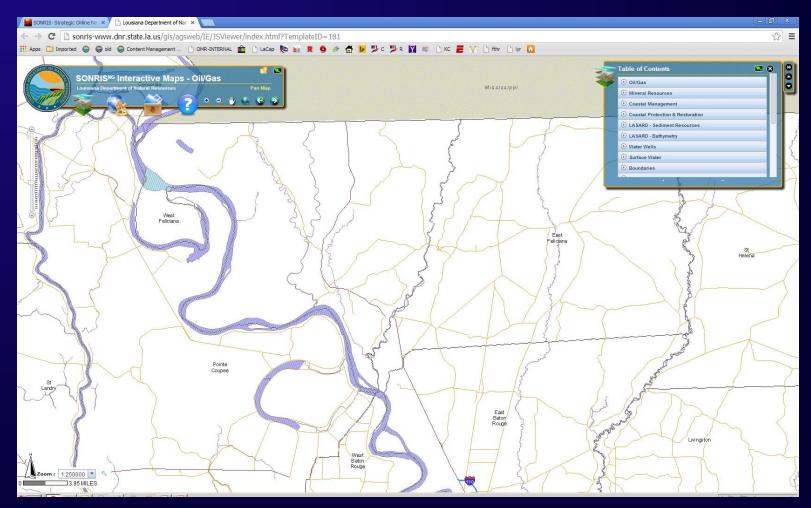
These servers provide this service to the public via dynamic pages generated on a number of Web Servers. For more information on how these Web servers fit into DNR's computing architecture and future direction, you are invited to review the project overview for the Strategic Online Natural Resources Information System Here.

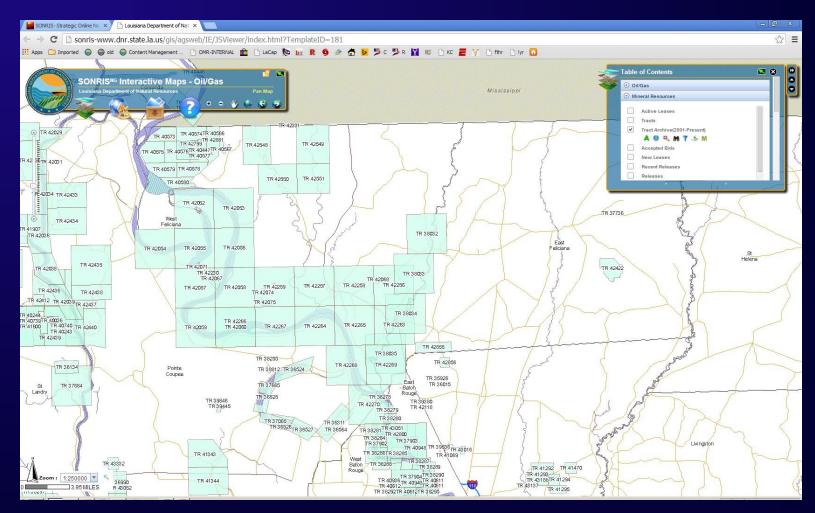
Disclaimer

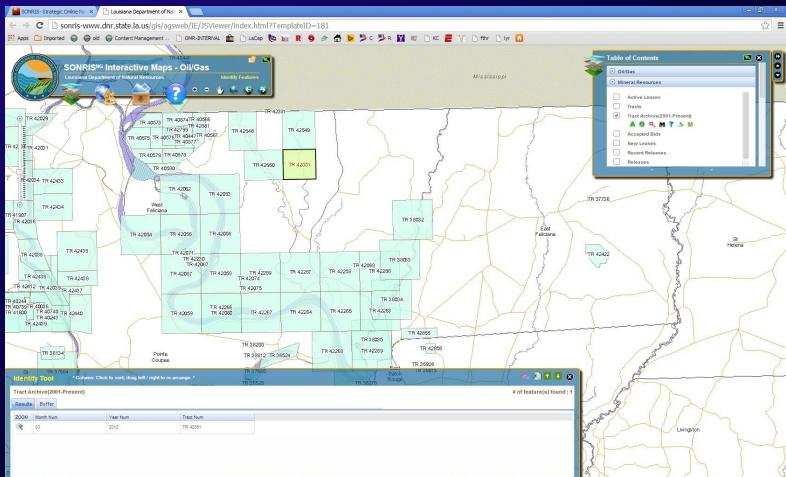
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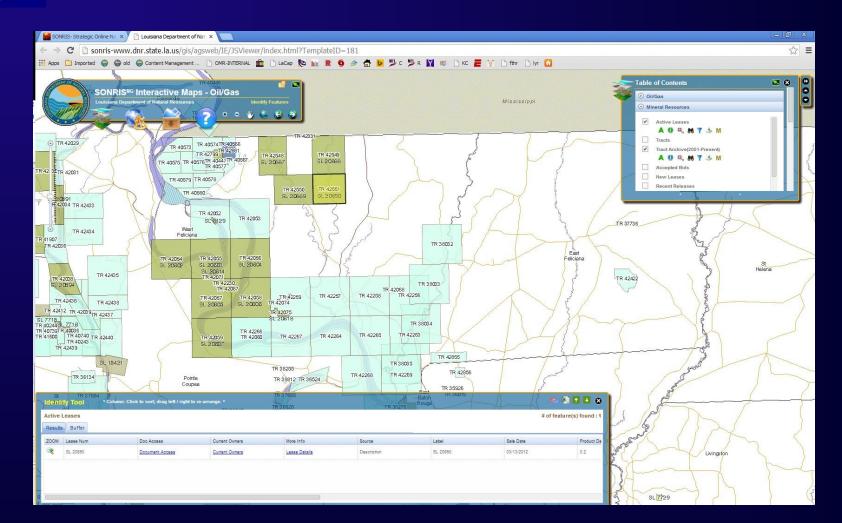


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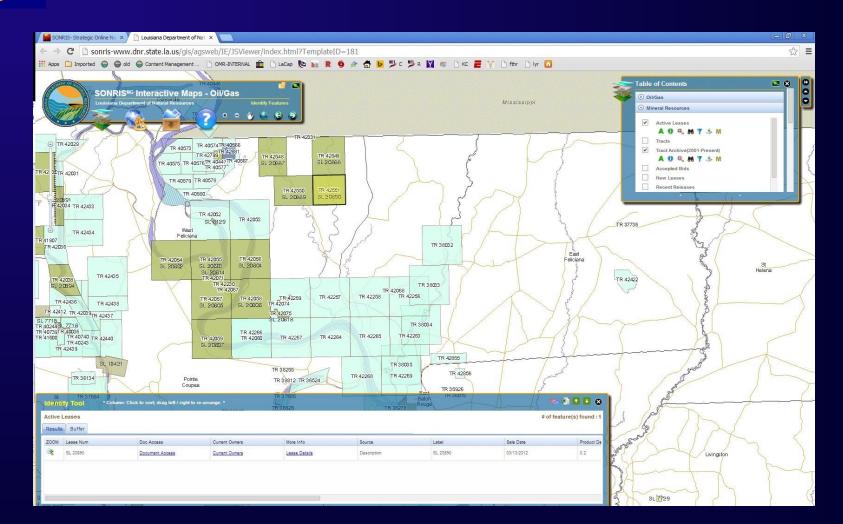




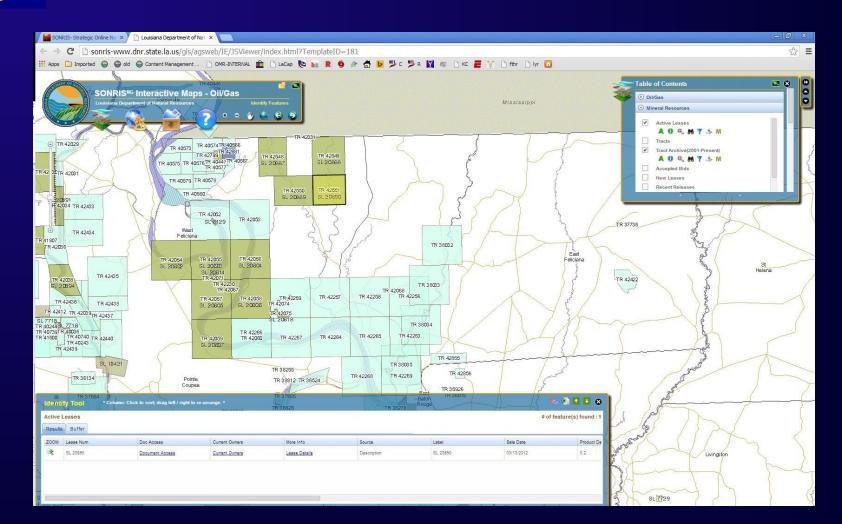




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2	内	1		THEOPHILUS OIL, GAS & LAND SERVICES, LLC			2			42551			BID FORM
3	JPG	i	凶	-	THEOPHILUS OIL, GAS & LAND SERVICES, LLC	PLAT	1	Uploaded By OMR scanning personnel	20890		4/2/2012 10:06AM	3/14/2012 12:00AM	STATE LEASE
F.	凶	i	内	1	THEOPHILUS OIL, GAS & LAND SERVICES, LLC		2		20890		4/11/2012 10:32AM	3/14/2012 12:00AM	UNEXECUTED STATE LEASE
5	凶	()	内		THEOPHILUS OIL, GAS & LAND SERVICES, LLC		15		20890		4/11/2012 10:44AM	3/14/2012 12:00AM	STATE LEASE
3	凶	()	内		THEOPHILUS OIL, GAS & LAND SERVICES, LLC	AWARDED LEASE	1		20890		4/11/2012 10:11AM	4/4/2012 12:00AM	OMR CORRESPONDENCE
	凶	i	内		THEOPHILUS OIL, GAS & LAND SERVICES, L.L.C.	RECORDING INFORMATION	1		20890		4/19/2012 11:01AM	4/16/2012 12:00AM	CORRESPONDENCE
	凶	1	凶		THEOPHILUS OIL, GAS & LAND SERVICES, L.L.C.		9		20890		9/14/2012 11:20AM	8/8/2012 12:00AM	ASSIGNMENT
9	凶	i	内		THEOPHILUS OIL, GAS & LAND SERVICES, L.L.C.	DOCKET 9, ASSIGNMENT	3		20890		9/18/2012 2:28PM	9/10/2012 12:00AM	OMR CORRESPONDENCE
0	凶		内		THEOPHILUS OIL, GAS & LAND SERVICES, L.L.C.	RECORDING INFORMATION	2		20890		9/19/2012 4:30PM	9/19/2012 12:00AM	CORRESPONDENCE
11	凶	i	內		DEVON ENERGY PRODUCTION COMPANY, LP		19		20890		8/9/2013 3:09PM	7/10/2013 12:00AM	ASSIGNMENT
12	内	()	内		THEOPHILUS OIL, GAS & LAND SERVICES, L.L.C.	DOCKET #10, ASSIGNMENT	5		20890		9/4/2013 4:45PM	7/29/2013 12:00AM	OMR CORRESPONDENCE
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20890	THEOPH	HILUS OIL	., GAS & LAN	D SERVICES, I	LLC 03/14/2012	3	N	05	03/14/2012 42551	N/A	N/A	R03W	39	T025		
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20890	THEOPH	HILUS OIL	., GAS & LAN	D SERVICES, I	LLC 03/14/2012	3	N	05	03/14/2012 42551	N/A	N/A	R03W	51	T025		
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20890	В	1	ASSIGNMENT	08/08/2012					NG BE APPROVED, SAID INSTR							
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								ONTACT PERSON) PI	JRSUANT TO STATE MINERAL	AND ENERGY BO	ARD RESOLUTIO	N DATED SEPT	EMBER 10,	1975. FOR ORIGINAL	INSTRUMENT SEE SL 2	20887 "B" COB 193, PAGE
20890	C	1	ASSIGNMENT	07/10/2012	454, FILE NO. 108			ILV 10 2012 MEETIN	IG BE APPROVED, SAID INSTRU							
0890	C	1	ASSIGNMENT	07/10/2013					ID TO STATE LEASE NOS. 2076							
					COB 197, PAGE 24					,, 2000	-, ,	,				



Ideas to consider in advance:

Which companies are leasing in the area?

2. Clerk of Court Office Leases Documents are recorded. Terms of lease are public information.

Thank you for the opportunity to speak to you today

Questions?