

Location Plats Area of Reviews Migration Potentials

UIC TRAINING WORKSHOP | Injection and Mining Division

Presented by Teresa Rougon Luzma Mata de Leder Angela Howard

March 6-7, 2012

Location Plats

Policy No. IMD-GS-10

Location Plat Requirements for Injection & Mining Permits

» Purpose and Intent

- Improve the accuracy
- Increase the effectiveness
- Address potential environmental threats
- Improve the reliability of location descriptions and coordinates

» Copy of Policy

- www.dnr.louisiana.gov >>
- Conservation (тор мени) >>
- Divisions (LEFT MENU) >>
- Injection & Mining (LEFT MENU) >>
- Injection & Mining Policy Statements (SCROLL DOWN) >>
- IMD-GS-10 (click)

Application Requirements

» NEW Location Plats Required

- Applies to most applications for New Drill and Re-Drill wells
- Can apply to some **Permitted** IMD wells

» EXISTING Location Plats Accepted

- Applies to most applications for Conversion wells, as long as the following is met:
 - If the proposed well was surveyed <u>BEFORE</u> November 1, 2010:
 - An existing Location Plat must have been previously accepted by the Office of Conservation, and
 - The correct X/Y Coordinates must be available in the SONRIS database.
 - If the proposed well was surveyed <u>AFTER</u> November 1, 2010:
 - An existing Location Plat must have been previously accepted by the Office of Conservation, and
 - The Location Plat meets the survey and location plat requirements of this policy.

Survey Requirements

Minimum Requirements for Surveys Conducted in the Field

» Field Investigation

- Performed by a Professional Land Surveyor (or under their supervision)
- Marked with steady marker
 - At least 1/2 inch width/diameter
 - At least 18 inches in length
 - Marker must be distinguishable from surroundings

» Location Determination

- Section Lines
- Historical or Government Surveyed Monuments
- Protracted Section Plat
- » Global Positioning System (GPS)

Minimum Requirements for Location Plats

- » Dimensions of 8.5 x 10.5 inches
- Scaled to 1,000 feet to an inch

A smaller scale may be used as long as the applicable features are represented

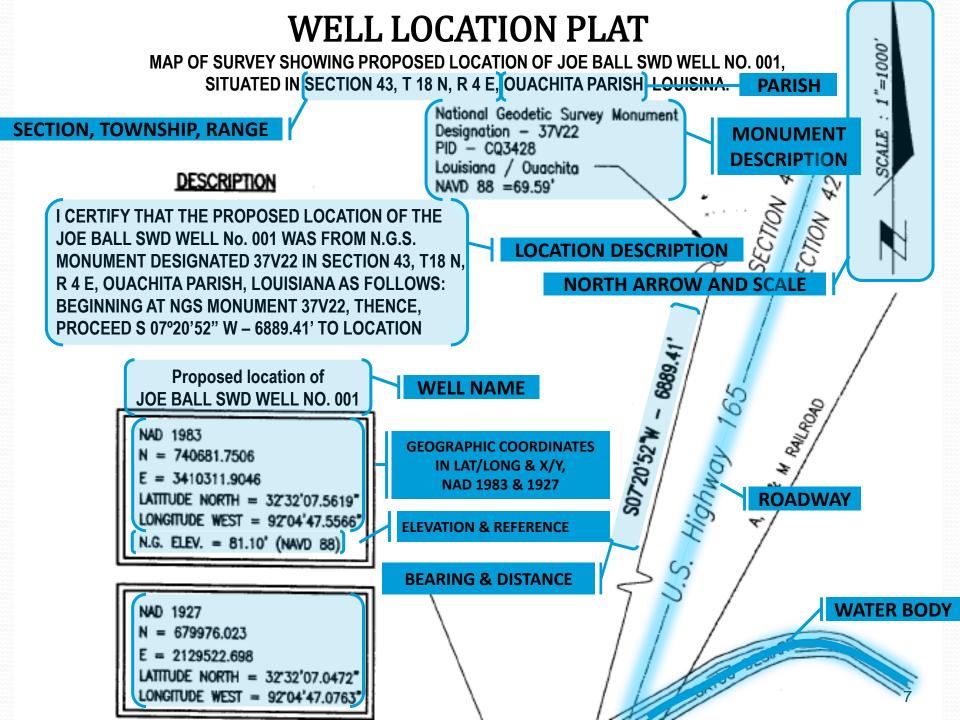
» Required Format

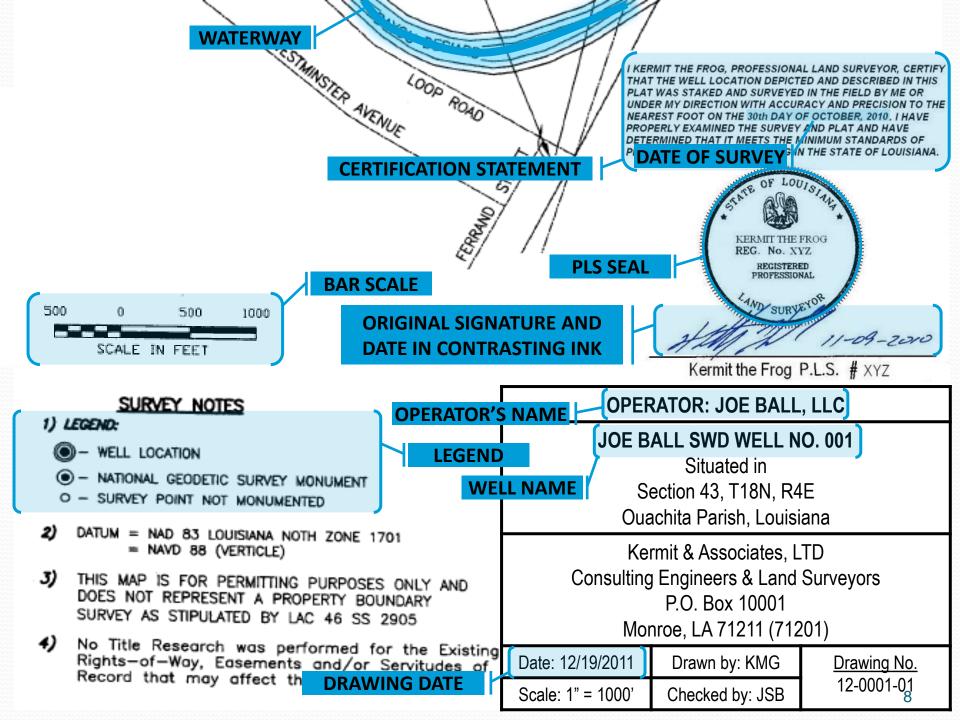
Legend, North Arrow, Bar Scale, Well Name, Operator Name, etc.

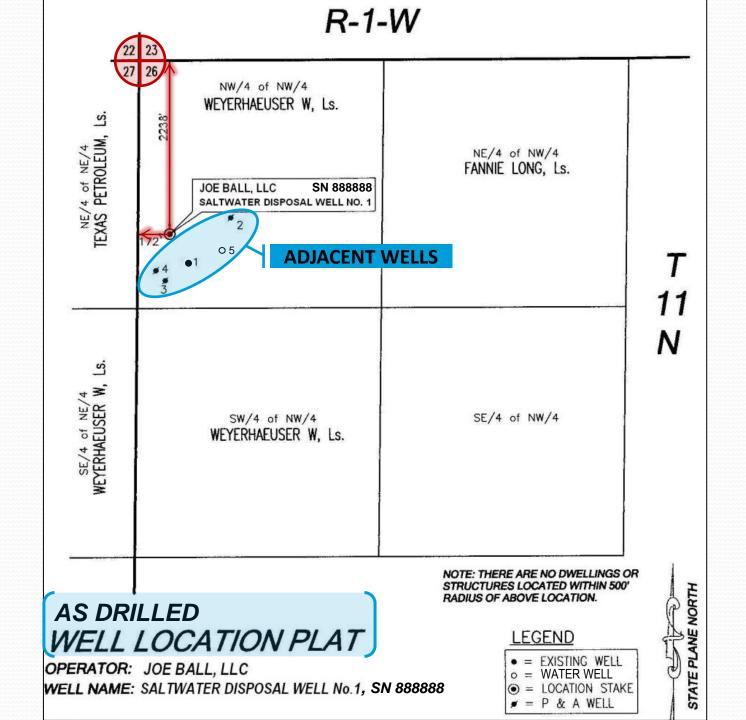
- » Legal Description
- » Geographic Coordinates
- » Required Features

Section Lines, Property Lines, Water Bodies, (when applicable, Oil & Gas Wells), etc.

» Seals, Signatures, and Certifications







Legal Description

- » Description must include:
 - Field measured distances to the section lines, OR
 - Distance and bearing to a historical or governmental monument, OR
 - Footages on a protracted section plat.
- » If the description is not based on the most recent survey, then the plat must include a statement phrased as follows:

"This description is based on the survey and plat made by [insert licensee's name], Professional Land Surveyor, dated [insert date]."

Geographic Coordinates

» Latitude and Longitude

- In Degrees, Minutes, Seconds
- Minimum accuracy and precision of two decimals of a second
- Provide coordinate referenced from NAD 1927 and 1983
- Will <u>NOT</u> accept values scaled from a map
- If GPS is used to determine coordinates, then the GPS data must meet the policy

» State Plane X,Y Coordinates

- Provide coordinate referenced from NAD 1927 and 1983
- Lambert Zone (North or South)

Seal, Signatures, and Certifications

» Seal

- Of the licensed Professional Land Surveyor who assumes responsibility for survey and plat
- Rubber Stamp or Computer Generated seals
- Computer generated seals must be signed and dated

» Signatures

- Licensee's original, handwritten, pen to paper, signature and date
- Contrasting ink

I KERMIT THE FROG, PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE WELL LOCATION DEPICTED AND DESCRIBED IN THIS PLAT WAS STAKED AND SURVEYED IN THE FIELD BY ME OR UNDER MY DIRECTION WITH ACCURACY AND PRECISION TO THE NEAREST FOOT ON THE 30th DAY OF OCTOBER, 2010. I HAVE PROPERLY EXAMINED THE SURVEY AND PLAT AND HAVE DETERMINED THAT IT MEETS THE MINIMUM STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF LOUISIANA.



Seal, Signatures, and Certifications (Continued)

» Certification Statement

The following statement is acceptable:

"I [insert licensee's name], Professional Land Surveyor, certify that the well location depicted and described in this plat was [staked or located] and surveyed in the field by me or under by direction with accuracy and precision to the nearest foot. I have properly examined the survey and plat and have determined that it meets the minimum standards of practice for land surveying in the State of Louisiana."

Applying the Location Plat Policy to the Following Wells

Class V Wells

Area Permits for Class III Wells

Horizontal and Directional Drilled Wells

Challenges Due to Irregular Sections

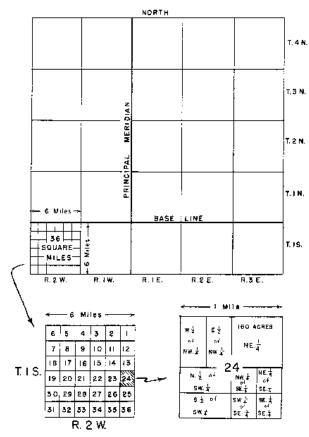
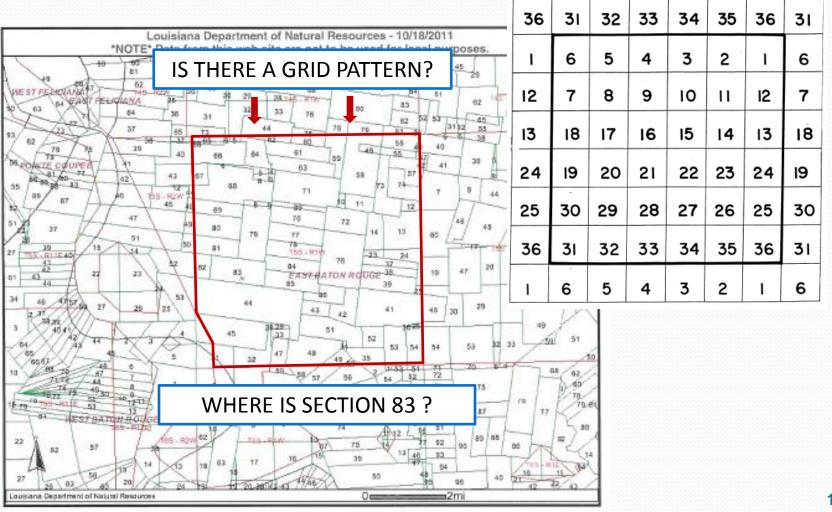


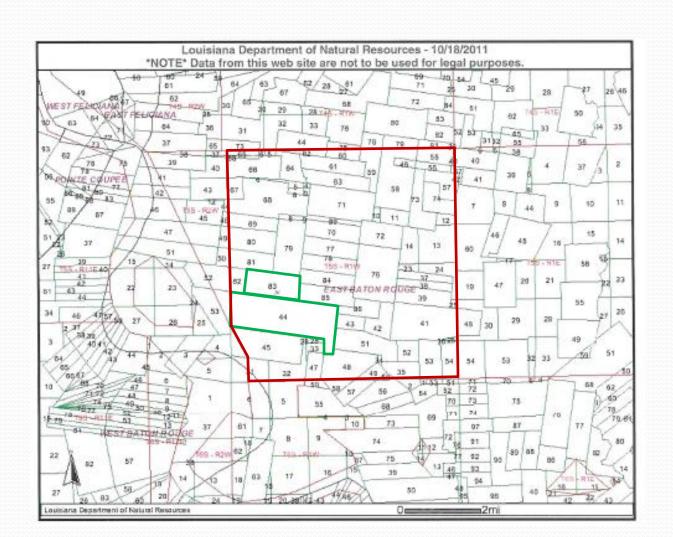
Figure 12. Standard land divisions.

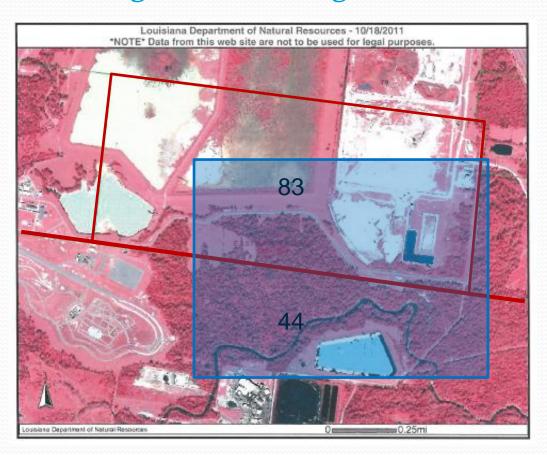
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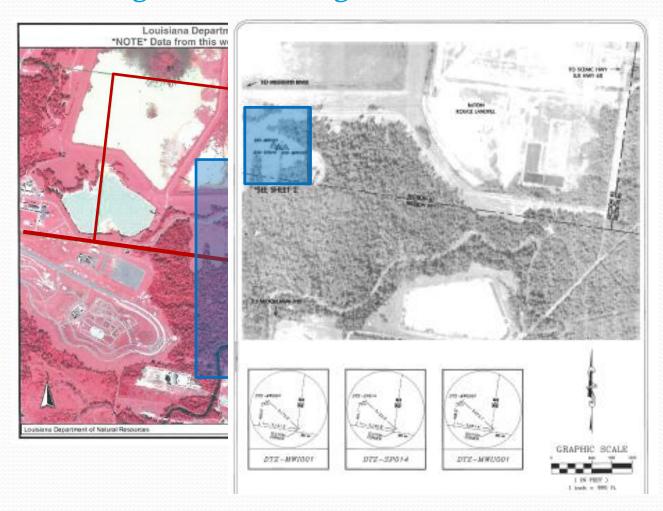
Most states have been surveyed into rectangular land units Called townships. A township is usually square and is six miles on a side. North-south lines marking township boundaries are range lines and coast west lines are township lines. Earge lines and coast west lines are manually lines are township lines. Earge lines are marked and township is these are measured north or south of some base line. Each township is further divided into sections one mile square. These 36 sections of a township are numbered as shown in Figure 12. Doe section is equivalent to 640 acres.

36	31	32	33	34	35	36	31
1	6	5	4	3	2	ı	6
12	7	8	9	10	il	12	7
13	18	17	16	15	14	13	18
24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	30
36	31	32	33	34	35	36	31
1	6	5	4	3	2	Į.	6









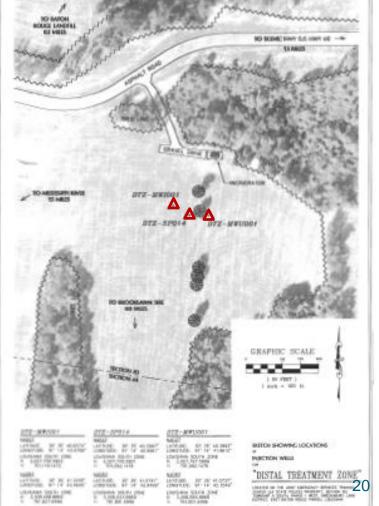




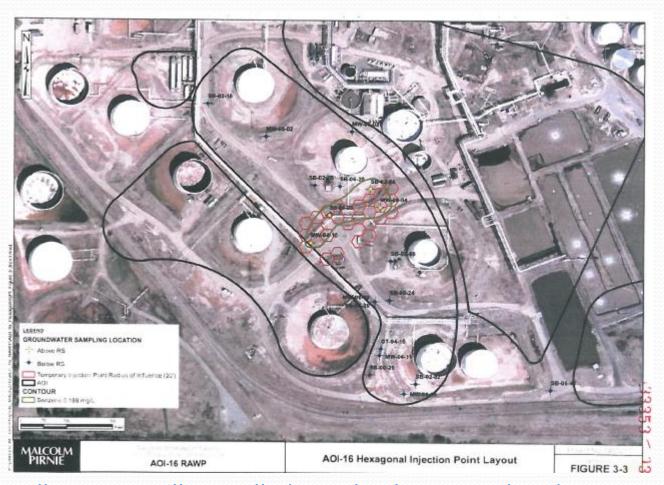






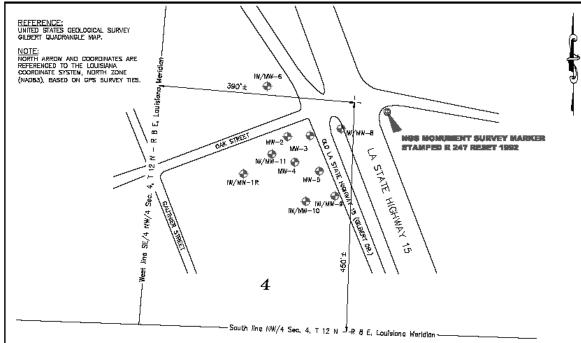


Class V Wells Installed to Monitor or Remediate Sites



Class V wells are typically installed in tight clusters and in close proximity to industrial structures, which makes conducting the field survey difficult.

Example of a Location Plat for six Class V wells



NAME	STATE PLA	STATE PLANE NADO?		STATE PLANE NADRS		GEOGRAPHIC KAD27		GEOGRAPHIC NAD63		ı
142340	VORTHING	EASTING	NORTHING	EASTING	LATITUDE	LCING TUDE	LATITUDE	LONGITUDE	NAVD88	ı
99/309413	504524,35	2350423.55	555218,52	3541221.41	52 02 04.26129	51 39 33,88783	32,03,07,83201	91.59.84,52082	73.31.	ı
3.996	3/4697.04	32,603, 5,70	395401.62	8541303.56	52 08 04.97399	51898236868	32,08,05,35466	91.59 %3.5,064	73,75	ı
3494-5	304600.03	73,50564,71	355402.60	3541353.57	83 02 04,99018	01.89.82.84055	32,08,05,35053	91.59 33.78750	78.73	ı
3994-4	504547.03	2350524.80	885351.60	3541,323,36	53.03.04.47780	01393269526	32,08,05,05857	41.59.38.14332	75:13	ı
MW 3	304676.46	3250385,00	355334.04	8541371.86	F2 08 04.80029	61 89 82 18488	32,08,04,85100	81.39 87.38178	74-23	ı
W/M9/ 6	304793.18	3250475.48	365500.76	3541263.34	82 03 05,55812	61 89 88 82211	32 08 09 31880	91 39 33,76905	72 59	ı
W/M99-6	504712.61	23,50526,20	585417.85	3541415.16	53.02.05.12182	91 39 31 62373	32,03,05,65252	81.89.83.07086	74.45	1
W/WW.9	304380.90	32,50513,78	355285.48	8541402.64	52 08 08.31738	91393173139	32 03 04 37807	81.59 82,22808	74.64	ı
99/3999-00	3045/0.29	3250 se6, 32	500274.27	3541345.18	32 02 03,71674	913932,44962	32 08 04 27749	91 39 92 89632	75 59	ı
99/M99-11	3/0/650.77	25 9MSS.75	535067.55	0541277.62	30,00,04,60722	\$1.30.03,22535	02.03/05.19794	01.3003/67030	74.00	1

Sems, Inc.

SECTION 4, T 12 N, R 8 E LOUISIANA MERIDIAN GILBERT, FRANKLIN PARISH, LOUISIANA U.P. LACHNEY ESTATE PROPERTY

March 26, 2011

1" = 100

WEBB SURVEYING 337-439-1463

LAKE CHARLES, LA.

LEGEND

IW/MW-X 💮 Injection Well/Manitor Well location

MW-X わ Monitor Well lacation

I, JAMES R. WEBB, PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE WELL LOCATIONS DEPICTED AND DESCRIBED IN THIS PLAT WERE LOCATED AND SURVEYOR IN THE FIELD BY ME, ON 03/26/2011, WITH ACCURACY AND PRECISION TO THE NEAREST FOOT. I HAVE PROPERLY EXAMINED THIS PLAT AND HAVE PROPERLY EXAMINED THIS PLAT AND HAVE DETERMINED THAT IT COMPLIES WITH EXISTING LOCAL LOUISIANA CODES. AND HAS BEEN PROPERLY SITE ADAPTED TO USE IN THIS AREA.

FOR REVIEW

JAMES R. WEBB. LA. REG. NO. D4582

Injection Well/Monitor Well 1R, is located in Section 4, T 12 N, R 8 E Louislana Meridian, Franklin Parish, Louislana and Is 3 6659 55" W 310,30" from National Geodetic Survey Government Monument R 247 RESET 1992 which has Lo. North Zons State Plans Lambert coordinates X= 3541507.05, Y= 565450.18, R 247 RESET 1992 is a stainless state for with a stamped survey marker that was surveyed and reported by LADOTD in 1992.

Injection Well/Monitor Well 6, is located in Section 4, T L. N. R B E Loudslans Meridian, Frankin Parlsh, Louisians and is N 76'02'17' W 244.01' from National Gaodetic Survey Government Monument R 24' RESET 1992 which has Lo. North Zone State Plans Lambert coordinates K= 354'150'7.05, Y= 5654'50.18. R 247 RESET 1992 la a staffless stale for with a stamped survey marker that was surveyed and reported by LADOTD in 1992.

Injection Well/Monitor Well 8, is located in Section 4, 12 N, R & E Louisians Meridian, Franklin Parish, Louisians and is 5 70721'33" W 97.57' from National Gaodetic Survey Government Monument R 247 RESET 1992 which has La. North Zone State Plane Lambert coordinates X= 3541507.05, Y= 355450.18. R 247 RESET 1992 is a stafiliese state for with a stamped survey marker that was surveyed and reported by LADOTD in 1992.

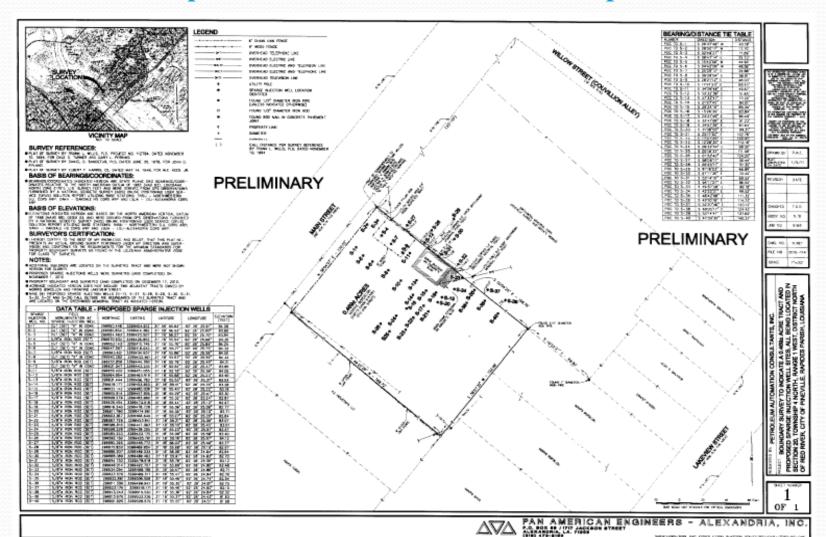
Injection Wel/Monitor Well 9, is located in Section 4, T 12 N, R & E Louisianu Mardian, Franklin Pariah, Louisianu and Is 3 32'2'1'8' W 195.01' from National Geodetic Survey Government Monument R 247 RESET 1992 which has Lo. North Zone State Plane Lombert coordinates K= 3541507.05, Y= 565450.18. R 247 RESET 1992 is a stainless steal rod with a stamped survey marker that was surveyed and reported by LADOTD in 1992.

Injection Weil/Monitor Weil 10, is located in Section 4, T UN, R B E Laufelana Meridian, Franklin Parlah, Luisiana and is S 42-255° W 238.61° from National Goodetic Survey Government Monument R 427 RESET 1992 which has Lo. North Zone State Plans Lambert coordinates K= 3541507.05, Y= 565450.18, R 247 RESET 1992 is a staffiless stable food with a stamped survey marker that was surveyed and reported by LADOZD in 1802.

Injection Well/Monkor Well 11, is located in Section 4, T 12 N, R B E Louisiona Meridian, Franklin Parlah, Louisiona and is 3 7070°59° W 243,93° from National Geodetic Survey Government Mourment R 247 RESET 1982 which has Lo. North Zone State Plane Lambert coordinates X= 3541507.05, Y= 565450.18. R 247 RESET 1982 la e stafiliase stale for with a stamped survey marker that was surveyed and reported by LADOTD in 1992.

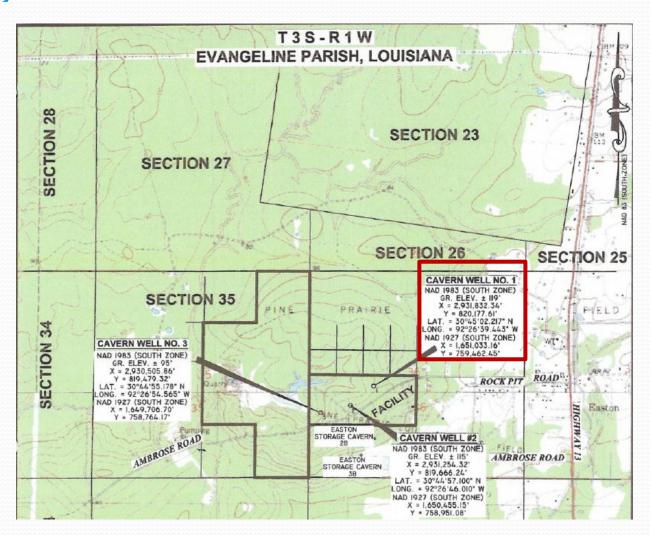


Another example of a Location Plat for multiple Class V wells



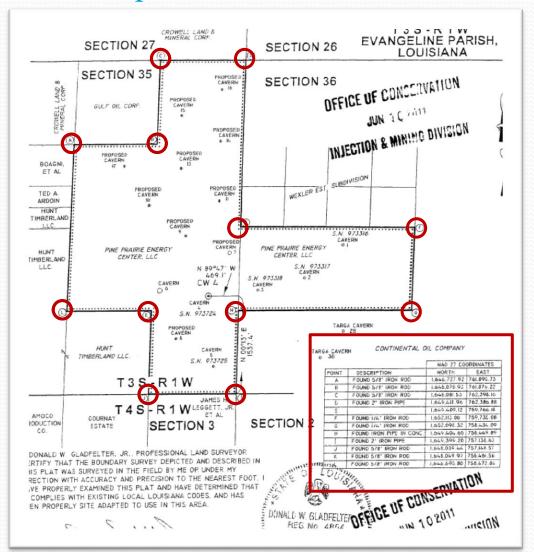
Single Class III Well within an Area Permit

Survey of Individual Wells within Area Permit Boundary



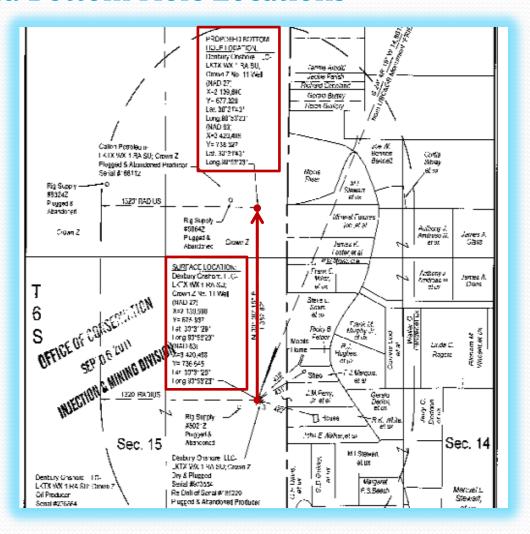
Area Permits for Class III Wells

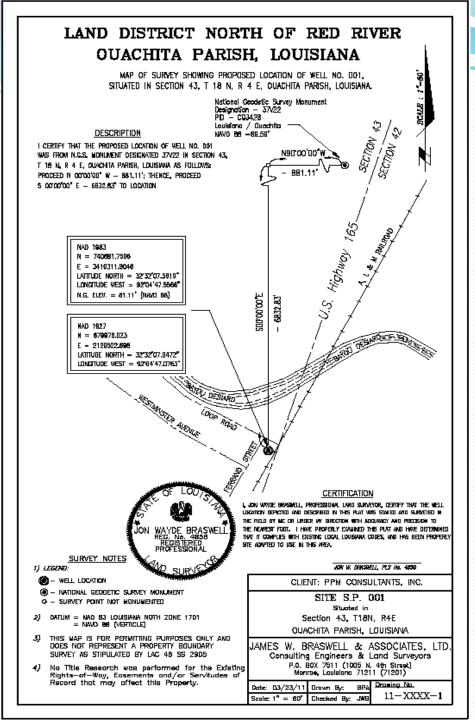
Survey Includes Multiple Points that Define the Area



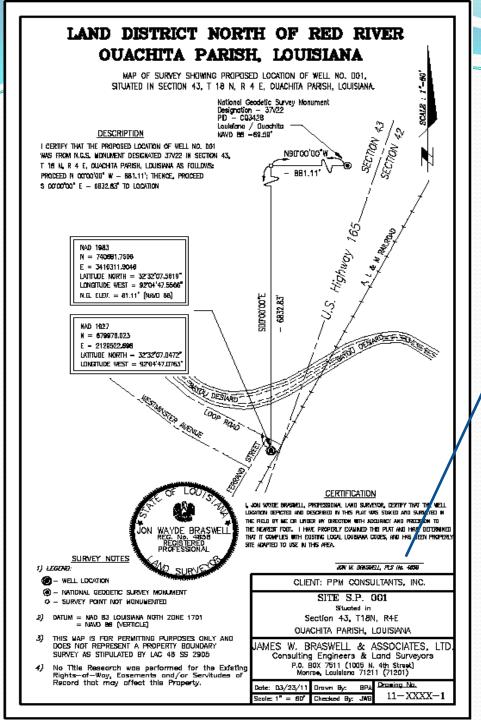
Directional & Horizontal Wells

Surface and Bottom Hole Locations





What is wrong with this plat?



NO SIGNATURE

Area of Review (AOR)

Area of Review (AOR)

Conducting a Search of the AOR

- » For Class II applications, the AOR is evaluated for wells within a $\frac{1}{4}$ mile radius of the well to be permitted.
- » The AOR search must include:
 - Searching SONRIS for wells in the DNR database; AND
 - Researching field maps and company files.
- » Applicants must complete the AOR Well List that is included in the Form UIC-2 SWD Application package. This Attachment must be labeled Attachment 6B.

Area of Review Well List

Attachment 6B

ATTACHMENT 6B - AREA OF REVIEW WELL LIST

OPERATOR CODE	WELL NAME & NO.	SERIAL NUMBER	WELL STATUS	TOTAL DEPTH (FT.)	PERFORATED OR COMPLETED INTERVAL (FT).		
					то		
					то		
					ТО		
					то		
					то		
					то		
					то		
					то		
					то		

AOR Detailed Report

Identifying an Existing Well's Lambert Coordinates

Go to www.dnr.louisiana.gov & click on the SONRIS logo

DEPARTMENT OF NATURAL RESOURCES SCOTT A. Angelle, Secretary



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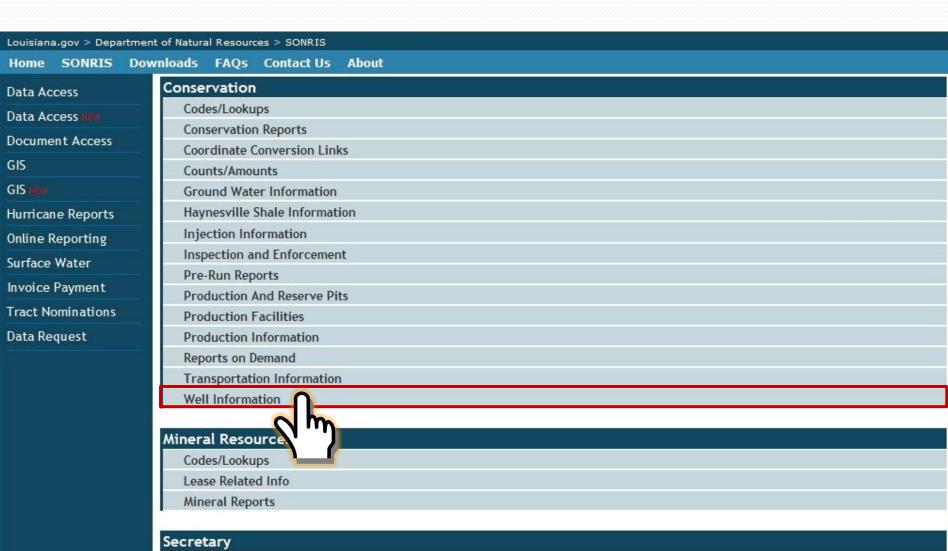
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Hurricane Reports

Helpful reports for hurricane season. For use of Reports on Demand, view the tutorial.

Scroll down to Conservation and select Well Information



35

General

HERO Application Status

Scroll down to Wells by Serial Number and select the Lite link



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Tract Nominations

Data Request

Helip by operator code				1100	
Wells By Organization Name		Lite			
Wells By Parish		Lite	Report	ROD	
Wells By Parish By Depth				ROD	
Wells By Parish By Effective Date				ROD	
Wells By Parish With Sands				ROD	
Wells By Section, Township And Range	Standard	Lite		ROD	
Wells By Section, Township, Range By Parish		Lite			
Wells By Serial Number		Lite			
Wells By Specific Field / Operator		Lite			
Wells By Spud Date		0	m	ROD	
Wells By Status				ROD	
Wells Permitted By Parish				ROD	
Wells With BHL By Parish				ROD	
Wells (Excluding Well Status 03,28,29,30)		Lite			

Mineral Resources

Codes/Lookups

Lease Related Info

Mineral Reports

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General

36

HERO Application Status

Enter the Serial Number of the well & click Submit Query

LDNR Office Of Conservation

Well Information

Enter The Well Serial Number: 175437



Scroll down to WELL SURFACE COORDINATES & Locate the Lambert X, Lambert Y, Zone, and Datum fields

Well Information

Review Well Information

WELLS PARISH PROD TYPE **API NUM** 175437 PARKER 001 08E 07/11/2011 17083205240000 T240 1488 PRMT DATE SPUD DATE STAT DATE ST CD 05/21/1981 05/22/1981 07/11/2011 33 WELL SURFACE COORDINATES Ground Elevation Zone Surface Longitude Surface Latitude Datum Lambert Lambert 0-0-0 78 0-0-0 2260924 632600 NAD-27 WELL SURFACE COORDINATES GENERATED BY DNR LONGITUDE 83 LATITUDE 83 **UTMY 83** UTMX 83 626514.21702206 3585914.08133878 -91.65472617

BOTTOM HOLE COORD

EFFECTIVE DATE	END DATE	PLUGBACK TOTAL DEPTH	TRUE VERTICAL DEPTH		100000000000000000000000000000000000000	10000	100000000000000000000000000000000000000	1900 100 100 100 100 100 100 100 100 100	100000000000000000000000000000000000000	The state of the s		LAM
05/01/1981	07/01/1981		0	0							03	0
07/01/1981	04/01/1983		0	3102							03	0

WELL HISTORY

SERIAL	WELL NAME	WELL NUM	ORG ID	FIELD	ST CD	PT	WELL CLASS	EFF DATE	END DATE	STAT DATE
175437	PARKER	001	T240	1488	33	10		07/11/2011		07/11/2011
175437	PARKER	001	T148	1488	23	00		11/20/2010	07/10/2011	11/20/2010
175437	PARKER	001	T148	1488	30	00		10/10/2000	11/19/2010	10/10/2000
175437	PARKER	001	T148	1488	20	10		10/01/1997	10/09/2000	05/30/1988

38

AOR Detailed Report

Generating the Detailed Report

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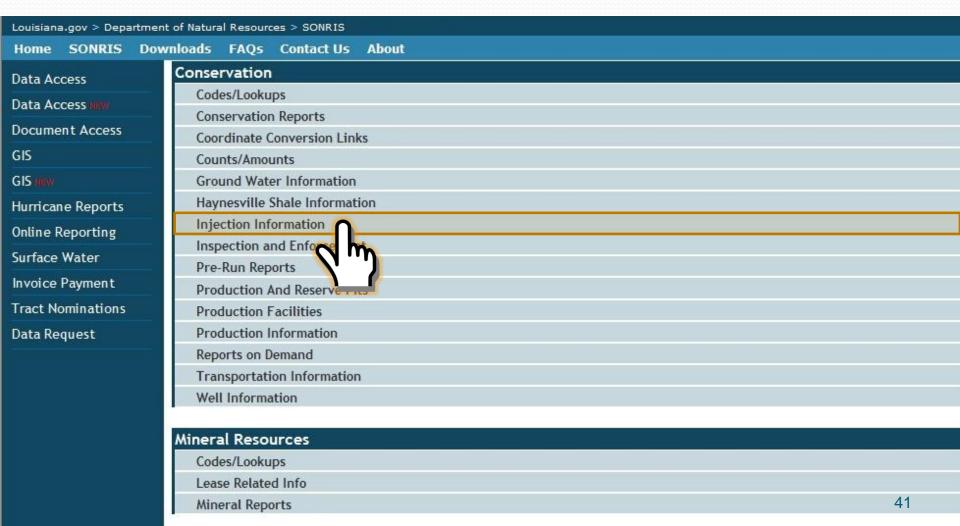
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Scroll down to Conservation and select Injection Information



Scroll down to UIC Appl: Detailed Report Of Wells in a Defined AOR and select the Report link

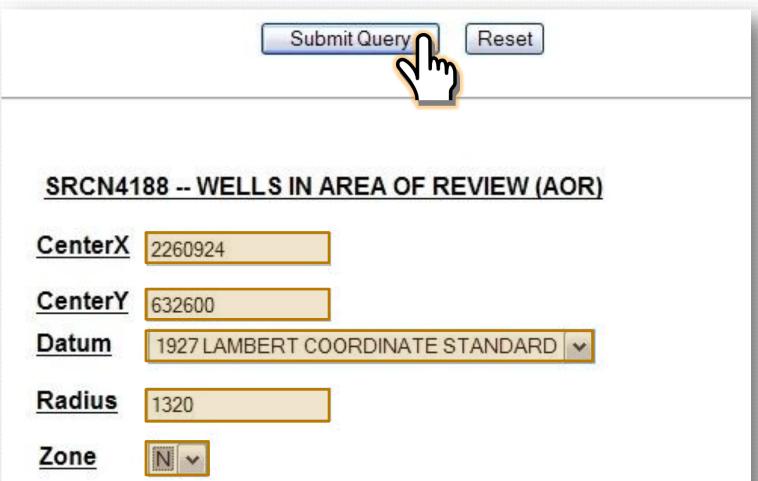
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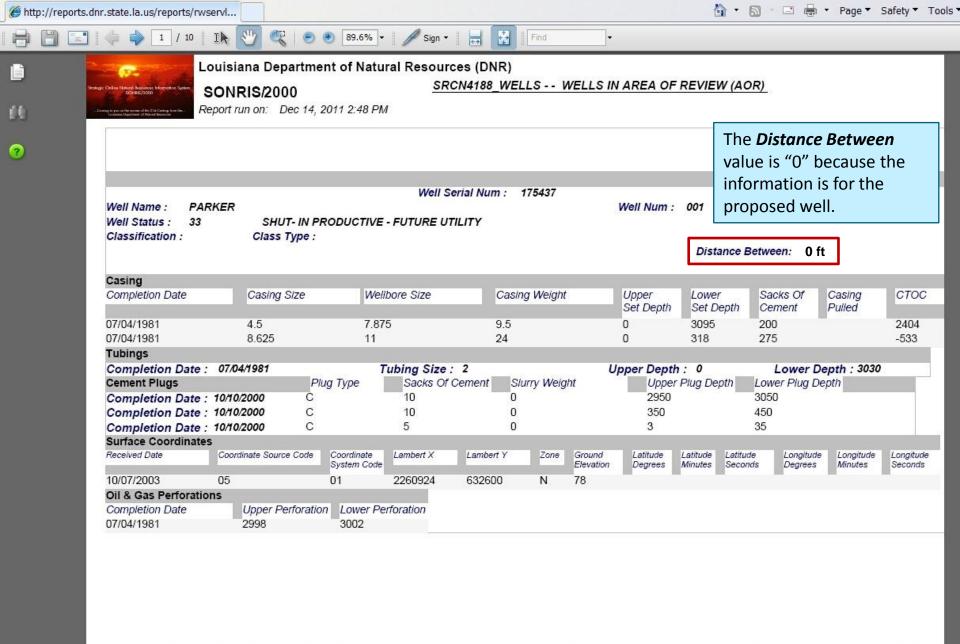
Standard

Lite

USDW Area Information

Enter the location's X/Y Coordinates, Datum (NAD 1927), modify the default Radius (if necessary), & enter the Zone. Select Submit Query





Note: Wellbore sizes with an asterisk symbol (*) next to it are assumed values based on the casing size and these assumed values have been substituted in place of a null (or zero) value everywhere a null (or zero) value previously existed as the wellbore size.

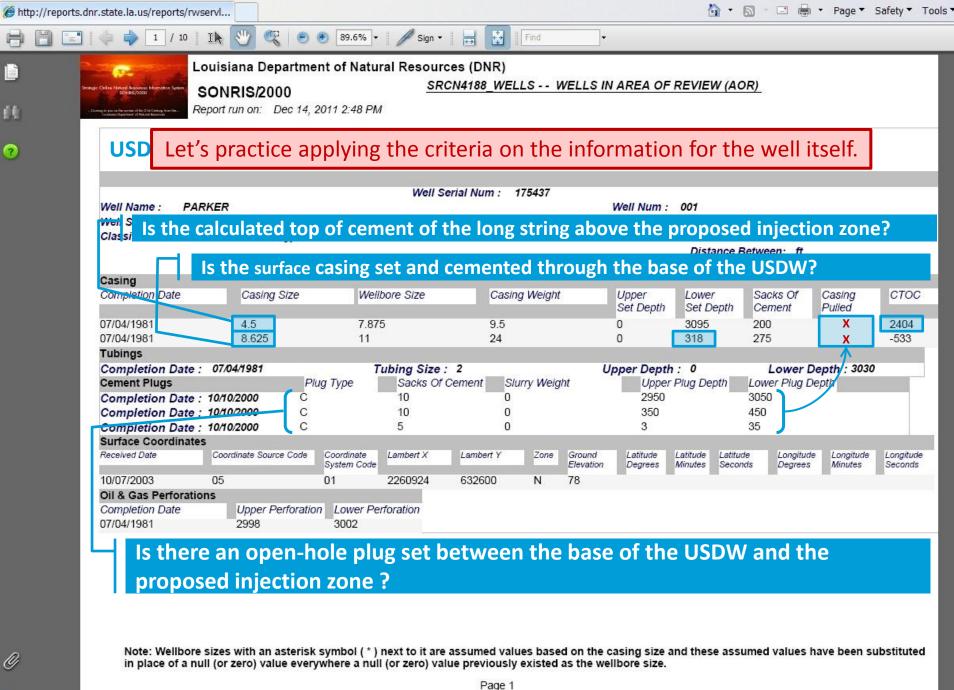
Identifying Deficient Wells in an AOR

Cement Isolation in Offset Wells

Cement Isolation

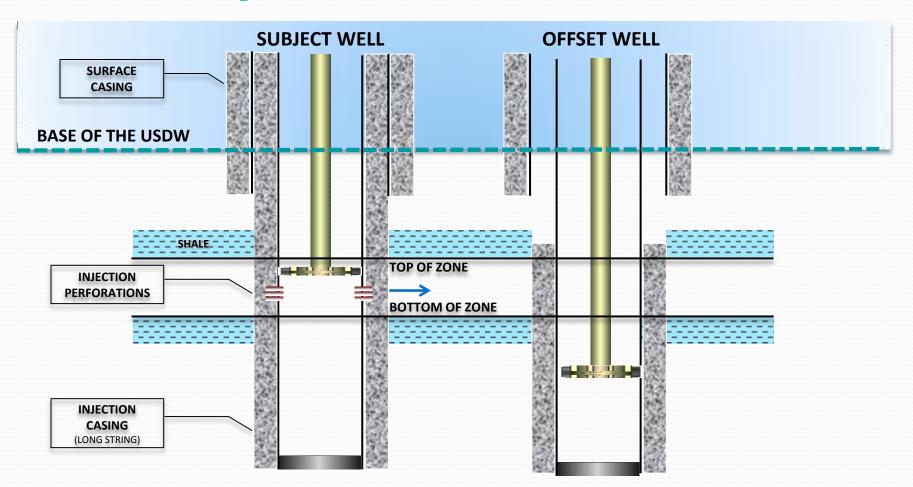
Determining Cement Isolation in an Offset Well

- » Adequate cement isolation in an offset well in the AOR is defined as:
 - Top of cement (calculated or CBL) located between the base of the USDW and the top of the proposed injection zone behind each string of casing which penetrates the proposed injection zone; OR
 - An open-hole plug set between the base of the USDW and the proposed injection zone.



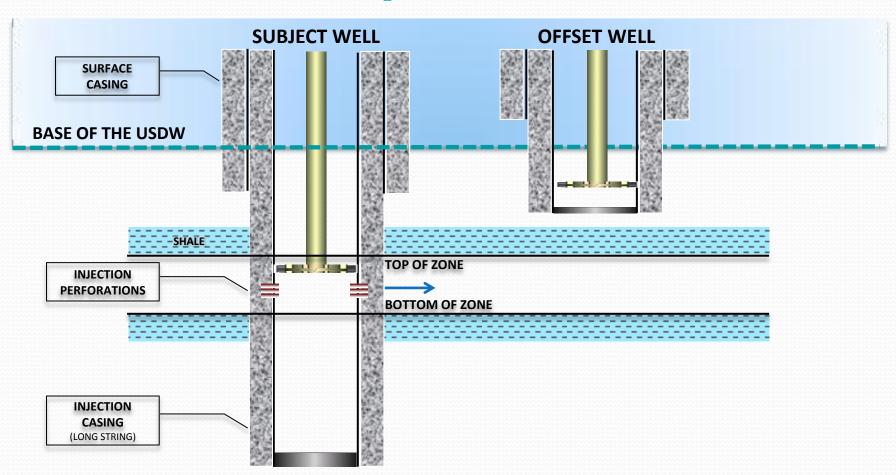
Sufficient Cement Isolation of USDW

Offset well that penetrates the USDW and ZONE



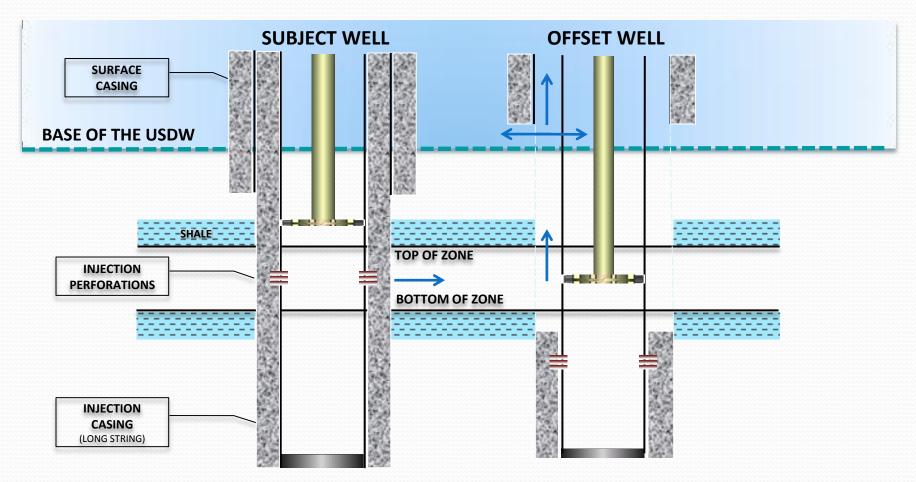
Sufficient Cement Isolation of USDW

Offset well that does NOT penetrate the ZONE



Insufficient Cement Isolation of USDW

Offset well in the ¼-mile Area of Review



AOR Exercise

- » Identify the Deficient Wells in the ¼ mile AOR using the following information:
 - 1. SN 175437 is the Proposed SWD well.
 - 2. The Base of the USDW was identified at 860 feet.
 - 3. The Proposed Injection Zone is from 1,570 2,470 feet.
- » Remember, to verify sufficient cement isolation in the offset wells, the following must exist:
 - Top of cement (calculated or CBL) located between the base of the USDW and the top of the proposed injection zone behind each string of casing which penetrates the proposed injection zone; OR
 - An open-hole plug set between the base of the USDW and the proposed injection zone.

Migration Potential Determination (MIGPOT)

Determining the Potential for Fluids to Migrate from an Injection Zone to a Deficient Offset Well

Migration Potential

Theory and Determination of Potential

» Theory

 When a pathway exists, the <u>potential</u> for flow into the USDW exists regardless of the distance from the disposal well to another well. This is even true if no fluid (or no additional fluid) is injected into the disposal well.

» Factors for Consideration

- Are there deficient wells in the AOR of the proposed injection well?
- How far away is the nearest deficient wellbore?
- Will proposed injection interval induce sufficient pressure to cause flow into USDW?

» Determination

• If a deficient wells is located within the ¼ mile AOR, corrective action is required to be performed in order for the well to be permitted. This is to ensure that injected fluid will not migrate from the injection zone into the USDW by way of channels which may be present in the deficient well bores.

Corrective Actions

» Provide Documentation

 Provide additional documentation which shows that sufficient cement isolation of the USDW from the injection zone exists in each of the offset deficient wells. This proof may consist of logs, documents from the Office of Conservation District Office files, or other records acceptable to the Commissioner; or

» Re-enter for Isolation

 Re-enter the offset wells and isolate the injection zone from the USDW with a cement squeeze or plug. All remedial work must be properly permitted by the District Office; or

» Migration Potential Calculation (MIGPOT)

Provide the Injection and Mining Division with data necessary to perform a MIGPOT.
 If it can be shown that injection will not cause fluid migration in the offset wells, the proposed disposal well may be permitted without further corrective action required on the offset wells. If you wish to have a MIGPOT calculation performed, a signed letter must be submitted to the Injection and Mining Division stating such.

Calculating the MIGPOT

Fluid and Formation Properties Needed for Calculation

- » A signed letter must be submitted to the IMD if the corrective action is to request a MIGPOT calculation be performed. A sample MIGPOT letter can be found in your handout.
 - Daily Injection Rate (bbls/Day)
 - Injection Fluid Density (ppg)
 - Injection Fluid Viscosity (cp)
 - Formation Permeability (millidarcies)
 - Formation Porosity (%)
 - Static Fluid Level (To be measured after receiving "Approval to Construct" letter)

Monitoring the Migration Potential

Annual Static Fluid Level Measurement and MIGPOT Calculation

- » Static fluid level of the subject well must be obtained annually and witnessed by a Conservation Enforcement Specialist.
- The well cannot be on a vacuum at the time of the test.
- The CES will report the static fluid level to IMD and an Engineer will recalculate the MIGPOT.

Questions?