

## Well Location QA/QC – User Guide

The Well Location QA/QC application includes two components- Well Bond Location QA/QC and Coordinate QA/QC. Users require the role CON\_WELL\_BOND to access the application. The application is located in SONRIS via Conservation (E and G) > Well Administration > Maintain Financial Security Location. Once logged in, the application defaults to the Well Bond Location QA/QC – Financial Security Locations landing page.

### Well Bond Location QA/QC – Financial Security Locations

Any time a well surface location priority 1 record is updated (be it a new record or correction of existing- records are in table WELL\_SURFACE\_COORDS- see “[Well Coordinates Prioritization](#)” guide for specifics on priority assignments), a process is executed to determine the financial security location type. The logic is based on the financial security types per LAC 43:XIX.104.C. If a record exists (tables are WELL\_BOND\_WELL\_LOCATIONS and WELL\_BOND\_LOCATION\_TYPES) and the updated location does not change the financial security location type, a new record is not created. Logic for location updates:

- If OFFSHORE (FIELDS.AREA\_CODE = 3), record set to OFFSHORE, review not required.
- If in North LA (FIELDS.DISTRICT\_CODE IN 5, 6), record set to LAND, review not required.
  - Note- if location is in water per aerial review, add comment to record “Water location outside Coastal zone.”
- If in South LA (FIELDS.DISTRICT\_CODE = 2) and location is outside of Coastal zone, record set to LAND, review not required.
  - Note- if location is in water per aerial review, add comment to record “Water location outside Coastal zone.”
- If in South LA (FIELDS.DISTRICT\_CODE = 2) and location is inside of Coastal zone, record set to PENDING.
  - There is logic that if SPCC plan selected on Permit to Drill (DRILL\_PERM\_EVALS.SPC\_PLAN = Y), the default location is set to INLAND WATER and review pending.

Upon logging in, the default filter of the Financial Security Locations page is records that require a review - will display with pending “Y.” Based on the nightly GIS refresh of well data, records have to be at least 1-day old to display (ie, well surface records updated “today” will not display until “tomorrow” so they display in GIS). Review the location in GIS, then select the edit tool to assign the location, remove pending flag, and/or assign a comment.

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Add Location

☒

Pending? contains 'Y'

Edit	Map	Well Serial Num	Well Name	Well Num	Org ID	Status	Field	District	Area	Location	Effective Date	End Date	Pending?	Comments
		972227	SL 1388 WSW	B-59-S	W216	73	SOUTH PASS BLOCK 24	LAFAYETTE	ONSHORE	OFFSHORE	21-JAN-21	-	Y	Surface location within 3-mile strip. Possible location correction - emailed IMD 1/20/2021
		252220	DELTA SEC CO INC	155	A161	10	BAYOU COUBA	LAFAYETTE	ONSHORE	INLAND WATER	04-FEB-21	-	Y	-
		140097	F S CO SL 188 LAKE PELTO	148	1862	29	LAKE PELTO	LAFAYETTE	ONSHORE	-	04-FEB-21	-	Y	-

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Change the Pending Review flag to “No” to assign the location, then select “Apply Changes.”

**Manage Location** [X]

Well Serial Num **252220** Name **DELTA SEC CO INC** Num **155**

Org ID **A161** Status **10**

Field **BAYOU COUBA** Area **ONSHORE**

District **LAFAYETTE** Parish **SAINT CHARLES**

Effective Date **04-FEB-21** End Date

Location **INLAND WATER** [X]

Comments

Pending Review? **Yes** [X]

**Apply Changes**

To add a comment to an existing record or change the assigned type, remove Pending = “Y” filter...

**Well Location QA/QC**

Financial Security Locations

Search [X] Go Actions [X]

[X] [X] Pending? contains 'Y' [X]

Edit	Map	Well Serial Num	Well Name	Well Num	Org ID	Status
[X]	[X]	230209	LIVE OAK PLANTATION TRUST	011	D211	30

...then key in the serial number via the header to access the edit feature.

Edit	Map	Well Serial Num	Well Name	Well Num
[X]	[X]	[X]	[X]	[X]
[X]	[X]	[X]	[X]	[X]

The “Add Location” button allows users to force a record through the process. This application was not created until January 2021. Non-active records (WELLS.WELL\_STATUS\_CODE IN ('03' ,'28' ,'29' ,'30' ,'90' ,'82' ,'ZZZZ')) were not reviewed/loaded into the tables. Occasionally, non-active records become “active” and should have their financial security location type loaded (example- a well was in status 03 – Permit Expired and per inspection, well found to be drilled; status updated to active). Select “Add Location...”

The screenshot shows a web application interface with a blue header bar containing links: "Well Bond Location QA/QC", "Coordinate QA/QC", "Help", and "Log Out". Below the header is a table with columns: "on", "Effective Date", "End Date", "Pending?", and "Comments". The "Effective Date" column shows "21-12-21", "End Date" shows "-", and "Pending?" shows "N". An orange arrow points to a blue "Add Location" button located to the right of the table.

...then key in the well serial number. The logic will determine the proper assignment.

The screenshot shows a "Force Create Location" dialog box. It has a close button (X) in the top right corner. Inside the dialog, there is a text input field labeled "Well Serial Num" containing the value "520". An orange arrow points to a blue "Create" button located at the bottom right of the dialog.

There is a query in DODA that identifies any active wells without financial security location type assigned – it is on the Public Menu titled “Wells without FS location type.” Review periodically to get those well serial numbers forced through as needed.

Well locations with a highlight (see examples below) reflect a mismatch in location/well data compared to GIS layers. This is a flag reflecting potential incorrect coordinates and that the record is in the “pending” queue of the “Coordinate QA/QC” portion of the application.

Well Location QA/QC						
Edit	Map	Well Serial Num	Well Name	Well Num	Org ID	Status
		990520	GEO J J CLARK SWD	007	K081	09
		990518	GEO J J CLARK	005	K081	10
		990517	GEO J J CLARK	004	K081	33
		990516	GEO J J CLARK	003	K081	33

## Coordinate QA/QC

Any time a well surface location priority 1 record is updated (be it a new record or correction of existing- records are in table WELL\_SURFACE\_COORDS- see "[Well Coordinates Prioritization](#)" guide for specifics on priority assignments), a process is executed to compare the GIS layer intersects of Parish, Section, Township, Range, Coastal Zone, and Offshore versus the well data. Additionally, it identifies if a bottomhole record exists (BOTTOM\_HOLE\_COORDS table with END\_DATE NULL and exists G\_UTMX or G\_UTMY) and the line cannot be drawn in GIS. Any mismatches display in this queue. The intent of this process is to confirm that the location and/or associated data is correct and to prompt users to correct if necessary.

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Well Bond Location QA/QC

Coordinate QA/QC

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Actions

Validate	Location Type	Well Serial Num	Well Name	Well Num	Status	Parish	Section	Township	Range	Invalid Parish?	Invalid Section?	Invalid Township/Range?	CZ?	Offshore?	SONRIS Update Date	Run Date	
	Surface	976118	DRACO IZM	1	02	VERNON	008	02S	06W		Y	Y			22-DEC-23	23-DEC-23	
	Surface	122540	SL 1170-1 HOG A	010	35	CAMERON	000	000	000		Y	Y			07-MAY-19	23-DEC-23	
	Bottomhole	122540	SL 1170-1 HOG A	010	35	CAMERON	000	000	000						19-DEC-23	22-DEC-23	
	Bottomhole	254498	TEX L-CIB C RA SUA,LL&E	002-ALT	01	TERREBONNE	001	21S	14E						20-DEC-23	22-DEC-23	

Once the location is verified or data is corrected, select the validate icon...

Well Location QA/QC

Well Coordinate QA/QC

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▼

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Actions ▼

Validate	Location Type	Well Serial Num	Well Name	Well Num	Status	Parish
	Surface	976118	DRACO IZM	1	02	VERNON
	Surface	122540	SL 1170-1 HOG A	010	35	CAMERON
	Bottomhole	122540	SL 1170-1 HOG A	010	35	CAMERON
	Bottomhole	254498	TEX L-CIB C RA SUA,LL&E	002-ALT	01	TERREBONNE

...then select the Approve button to clear the record from the queue.

Validate Well Coordinates

Well Serial Num

976118

Well Name

DRACO IZM

Well Num

1

Org ID

D10126

Parish

VERNON

S/T/R Meridian

008-02S-06W W

By clicking "Approve" you are acknowledging that the coordinate issue has been resolved or that there is no issue with the provided information.

Approve

One limitation/potential enhancement to the application is normalizing the data during the comparison. An example – well serial number 976118 is flagged as a mismatch for Section, Township, and Range...



...but that's simply because of the leading zeroes in SONRIS data versus none in GIS. In the event of a true mismatch, the data provided in the well file (ie, certified plat) takes precedence over GIS layer UNLESS the well file includes a typographical error.

The DODA Query "Coordinate QA QC" can be modified to identify well surface locations within any time frame to revisit wells that may need updating. It is currently set on a schedule to run daily to the Permits Section Manager.

### Lagniappe

In the event there is a server move, ALWAYS verify that the Coastal zone GIS check is functioning. It "breaks" every time a server move is conducted.

The financial security location types are utilized in many SONRIS Data Portal queries including "Well Information Details by Operator (OJC)" and "Financial Security – Wells." Additionally, the financial security types are utilized for the financial security Exhibit A SONRIS updates for blanket instrument types.

In the event financial security regulations change (ie, water locations outside of the Coastal zone being designated as a different type than LAND, or enhancing the OFFSHORE flag to more than just Field designation), the logic of the application will need to be updated. OTS can also do "bulk" updates to the existing/assigned records based on logic.

Link to "Well Coordinates Prioritization" in the event hyperlinks do not work:  
<https://www.dnr.louisiana.gov/assets/OC/SONRIS/WellCoordinatesPriority.pdf>