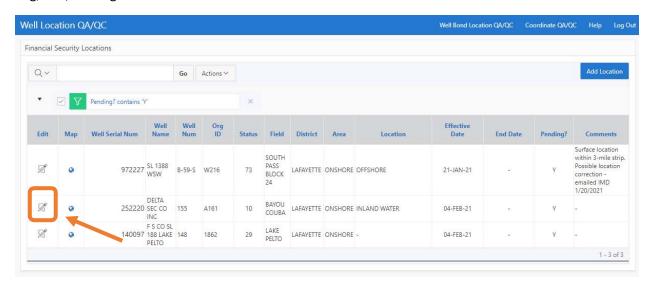## Well Location QA/QC – User Guide

The Well Location QA/QC application includes two components- <u>Well Bond Location QA/QC</u> and <u>Coordinate QA/QC</u>. 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.

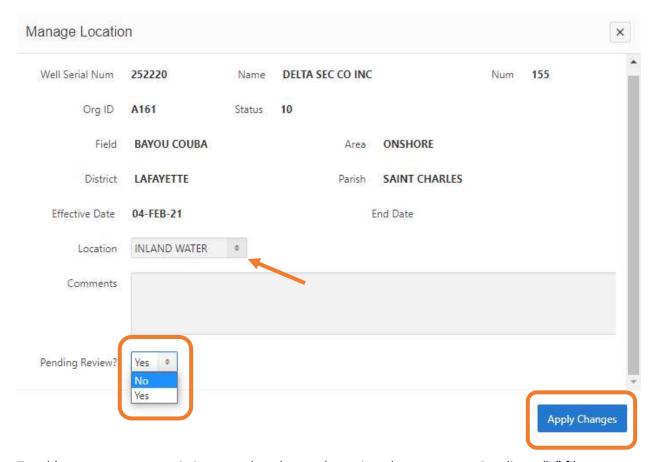### Well Bond Location QA/QC – Financial Security Locations

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 "<u>Well Coordinates Prioritization</u>" 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.
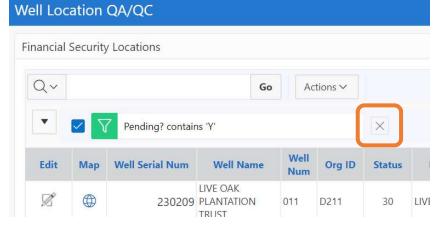
Upon logging in, the default filter of the Financial Security Locations page is records that require a review - will display with pending "Y." Based on the nightly GIS refresh of well data, records have to be at least 1-day old to display (ie, well surface records updated "today" will not display until "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.

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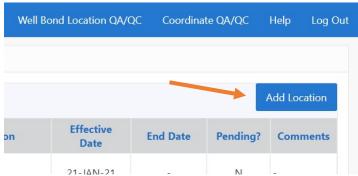

To add a comment to an existing record or change the assigned type, remove Pending = "Y" filter…

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

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' ,'ZZZZZ')) 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…"
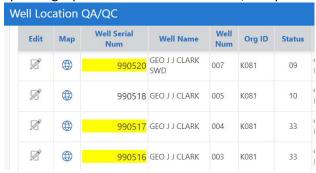

…then key in the well serial number. The logic will determine the proper assignment.

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.
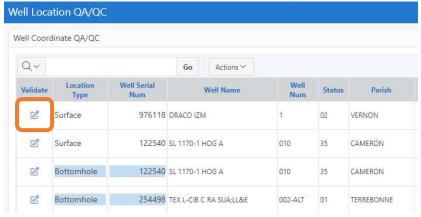
Coordinate QA/QC

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.
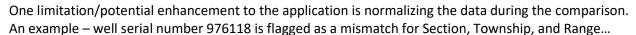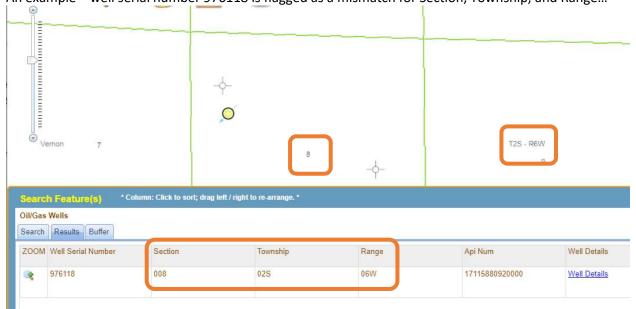

Once the location is verified or data is corrected, select the validate icon…

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

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