QGIS Application - Bug report #17678
QgsVectorLayer::updateFeature fails when currentFeature.hasGeometry() == 0

2017-12-12 09:18 AM - Mark Johnson

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Vectors			
Affected QGIS version:	master	**Regression?:**	No	
Operating System:		**Easy fix?:**	Yes	
Pull Request or Patch supplied:	No	**Resolution:**	fixed/implemented	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	25575	

Description

In QgsVectorLayer::updateFeature, when updating a record that contains 2 geometries, after the record has been created with the first geometry,
the second cannot be updated with a valid geometry since the 'current' returns hasGeometry() == 0.

```
QgsFeature currentFeature = getFeature( updatedFeature.id() );
if ( currentFeature.isValid() )
{
 QgsDebugMsg( QString( "feature %1 could not be retrieved" ).arg( updatedFeature.id() ) );
 if ( updatedFeature.hasGeometry() && currentFeature.hasGeometry() && !updatedFeature.geometry().isGeosEqual(
currentFeature.geometry() ) )
 {
  ...
 }
}
```

The check for **&& currentFeature.hasGeometry()** should be removed
  - updating a NULL geometry with a valid new geometry should be allowed
The current QgsDebugMsg is also misleading, since **currentFeature.isValid()** is true
  - this is a leftover from changes made to return when the record could not be retrieved
  - this message should occur as the **else** of the **isValid()** statement.

```
QgsFeature currentFeature = getFeature( updatedFeature.id() );
if ( currentFeature.isValid() )
{
 QgsDebugMsg( QString( "feature %1 could was retrieved updatedFeature.hasGeometry[%2]
currentFeature.hasGeometry[%3]" ).arg( updatedFeature.id()
).arg(updatedFeature.hasGeometry()).arg(currentFeature.hasGeometry()) );
 if ( updatedFeature.hasGeometry() && !updatedFeature.geometry().isGeosEqual( currentFeature.geometry() ) )
 {
  ...
 }
}
else
{
 QgsDebugMsg( QString( "feature %1 could not be retrieved" ).arg( updatedFeature.id() ) );
}
```

Associated revisions

Revision 5ecb5603 - 2018-01-04 02:27 AM - Nyall Dawson

Fix QgsVectorLayer::updateFeature returns true when errors occur

Refs #17678

Revision 71cdb8cf - 2018-01-04 02:27 AM - Nyall Dawson

Fix QgsVectorLayer::updateFeature cannot add geometry to feature
with no existing geometry

Fixes #17678

History

#1 - 2017-12-12 09:23 AM - Mark Johnson

At present when !currentFeature.isValid(), false is not returned

- so a 'return false* is also needed after the message

#2 - 2018-01-04 02:27 AM - Nyall Dawson

- % Done changed from 0 to 100

- Status changed from Open to Closed

Applied in changeset commit:qgis|71cdb8cf8e99b249a310cfb359c79d82baccb008.

#3 - 2018-02-22 11:15 AM - Giovanni Manghi

- Resolution set to fixed/implemented