

KILKENNY - COUNTY GEOLOGICAL SITE REPORT

NAME OF SITE	Windgap Artesian Borehole		
Other names used for site			
IGH THEME:	IGH 16 (Hydrogeology)		
TOWNLAND(S)	Windgap		
NEAREST TOWN	Windgap		
SIX INCH MAP NUMBER	30		
NATIONAL GRID REFERENCE	240700 134600 = S 407 346		
1:50,000 O.S. SHEET NUMBER	67	1/2 inch Sheet No.	18

Outline Site Description

Artesian borehole.

Geological System/Age and Primary Rock Type

N/A

Main Geological or Geomorphological Interest

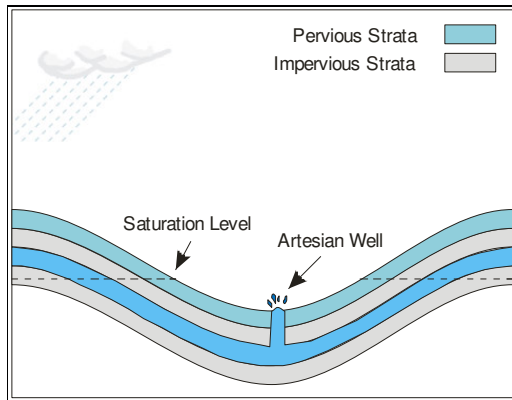
Just west of Windgap is located an old Artesian borehole. Such wells get their water supply from confined aquifers, containing groundwater that flows upwards, against gravity, without need for a pump. This occurs because the aquifer's recharge zone is at a higher elevation than that of the borehole or well that has bored into it.

Site Importance

According to locals the artesian well at Windgap was used up until the 1970's for the local water supply. It is a visually uninspiring site, which is only marked by a covered well and a small pump house. However it is an important hydrogeological phenomenon of artesian well and confined aquifer behaviour in this area. It is therefore recommended for County Geological Site status, exemplifying artesian wells and aquifers.

Management/promotion issues

Access to this site is along a third class road just west of Windgap village. It is on privately owned agricultural land (owner unknown). Because of the nature of this feature general promotion is not recommended.



Left: Schematic drawing showing the dynamics of an artesian well.
Right: Structure housing the artesian well.

Windgap Artesian Well

