

Water Well Data Elements

Well Header Tab Page:

This list contains location and identification information that is usually entered from the original water well permit. Other items included are entered from the water well construction report and the water well record received from the driller. Currently there are over 325,000 wells in this ISGS database which includes water wells, coal tests and engineering borings among other well types.

Item Name	Description
County	County name
Twp	Township number
Tdir	Township direction (N or S)
Rng	Range number
Rdir	Range direction (E or W)
Section	Section number
API Number	12 digit number assigned by the ISGS. Consists of "12", (the state code for Illinois), 3-digit county code, 5-digit unique number, 2-digit re-drill code
Driller Name	Driller name
Comp Date	Date the well was completed
Well/Owner Name	Well or owner name and number
Total Depth	Total depth
Hole Diameter	Diameter of the hole
Elevation	Elevation and elevation reference; possible choices are: CO Elevation from the company DF Derrick Floor ES Estimated GL Ground level KB Kelly Bushing LS Laughlin & Simmons PT Plane Table RB Rotary Bushing RT Rotary Table TM Topographic Map

Item Name	Description
Status	Well status code; possible choices are: COAL Coal Test COALNR Coal, No Paper Record Found COALP Coal Test, Plugged CROP Outcrop DEAD Dead Permit DRIFT Drift Mine DRY Dry Hole DRYP Dry Hole (water well), Plugged ENG Engineering Test ENGP Engineering Test, Plugged LUST Leaking Underground Storage Tank MINER Mineral Test MINERP Mineral Test, Plugged MONIT Water Well Monitoring Well MSERV Mine Service MSERVP Mine Service Plugged MSFT Mine Shaft OBS Observation Well OBSO Observation Well, Oil Shows OBSOP Observation Well, Oil Shows, Plugged OBSP Observation Well, Plugged SLOPE Slope Mine STRAT Stratigraphic Test STRATP Stratigraphic Test, Plugged STRIP Strip Mine STRIPP Strip Mine, Plugged WASTE Waste Disposal Well WASTEP Waste Disposal Well, Plugged WATER Water Well WATERP Water Well, Plugged WATOT Oil Test, left open for a water well WATRS Water Supply Well WATRSP Water Supply Well, Plugged WTST Water Well Test Hole WTSTP Water Test Hole, Plugged
NSfoot	Footage north or south from a corner or line of the section or quarter section. "Corner" is blank when the footage is from a line.
NSdir	Direction (N or S) for NSfoot
EWfoot	Footage east or west from a corner or line of the section or quarter section. "Corner" is blank when footage is from a line.
EWdir	Direction (E or W) for EWfoot
Corner	Used when the location footage is from a corner of the section (NE, NW, SE, SW)
Quarters	Used if section location is subdivided into quarters.
Permit #	Number assigned to permit when drilling permit is issued
ISWSpnum	Unique number assigned by the Illinois State Water Survey for their database ID.

Item Name	Description
Sample	Was a water sample was submitted (Y/N)?
Rig Type	Tool code used to drill well. Possible choices are: A Air drilling C Cable D Diamond R Rotary G auGer O Other
Welltype	Purpose of water well. Possible choices are: BUS Water Well for Business CATH Cathodic Protection COAL Coal Test COMM Water Well for Commercial Operation DEWAT Dewatering Well FARM Household - Livestock Watering Well GEOTH Geothermal Heating and Cooling HEAT Heat Pump INDUS Industrial Water Well INJ Injection Well IRRIG Irrigation Well MINE Mine MINER Mineral Test MONIT Monitoring MUNIC Municipal Water Supply NCPUB Noncommunity - Public Water Well NPOT Non Potable Water Well O/G Oil and Gas OBS Observation Well PIEZ Piezometer PLCTL Pollution Control PRIV Private Water Well RECH Recharge SEIS Seismic Test Hole SEMIP Semi-Private Water Well STOCK Livestock Watering Well STRAT Stratigraphic Test STRU Structure Test SUBD Subdivision Water Supply SWR Surface Water Recharge Well TH Test Hole WF Water Flood/Repressurize

Item Name	Description
Source	Source of the location information - usually from permit but may be field verified. GPS - Global Positioning System verified FLD - Field verified TAX - Tax record verified PBK - Platbook verified APH - Aerial Photograph verified PMT - Location from permit DOQ - Digital Orthophoto Quad TOP - Location from topographic map DRL - Location from the driller LOG - Location from a log BAD - Questionable location.
Verified by	Initials of person who verified the location of this well
Verified Date	Date of location verification
Lot	Lot # for well, if given.
Subd	Subdivision for well if given
Verified Notes	Additional notes pertaining to the verification of the location of this well.
Well Address	2 lines of information to descriptive address of the well location
Comments	Additional comments about the well

Driller's Log Tab Page:

This list of items contains the driller's log information received from the driller. Currently there are Driller's logs for over 210,000 wells in the ISGS database.

Item Name	Description
API Number	12 digit number assigned by the ISGS. Consists of "12", (the state code for Illinois), 3-digit county code, 5-digit unique number, 2-digit re-drill code
Formation	Lithologic description
Thickness	Thickness of the formation or unit
Bottom	Base of the formation or unit

Completion Info Tab Page:

This list of items contains the completion information received from the driller.

Item Name	Description
API Number	12 digit number assigned by the ISGS. Consists of "12", (the state code for Illinois), 3-digit county code, 5-digit unique number, 2-digit re-drill code
Screen diam.	Screen diameter (in.)

Item Name	Description
Screen Length	Length of screen (ft)
Slot	Number of slots
Water producing from	Lithologic formation from which water is produced.
at depth	Top of water producing formation (ft)
to	Base of water producing formation (ft)
Static water level	Static water level below casing top (ft)
below casing top which is	Casing top above ground level (ft)
Pumping level	Pumping level (ft)
when pumping at	Used when pumping at X gallons per minute
gpm for	Used when pumping for X hours
Casing Information: Diameter	Casing diameter
Casing Information: Type	Casing type
Casing Information: Top	Top of casing
Casing Information: Bottom	Bottom of casing