



# PATRICK BRIODY & SONS LTD

<u>Contact</u>	<u>Employer</u>	<u>Engineer</u>	<u>Location</u>	<u>Brief Description Of Work</u>	<u>Date</u>
John Leonard Waterford Co.Co. (058) 22000	Waterford Co.Co.	RPS, Cork Criona Doyle (021) 4465900	Mapestown, Dungarvan, Co. Waterford.	Drilling of 2 no test wells and 6 No production wells to varying depths up to 70 meters with uPVC screen/casing string, gravel pack & grout seal. Drilling comprising deep cavernous formation with large rounded stones. Average borehole yield excess 17,500 gph. Comprehensive well development of 6 no production wells by dual airlift /eductor method. In addition, S. Kelly & Sons, (Nominated Subcontractors) completed step test @ each well and simultaneous multi well test. Full water analysis and site preparations & reinstatement undertaken by PB & Sons Ltd.	Jan-June 2013
Thomas Campbell (096) 9063031	MEIC D,B.O (Galway Co.Co) Main Contractor	Pamela Bartley, Hydrogeologist (087)8072744	Various in County Galway	Various test and production well drilling, well decommissioning, well development, well grouting & sealing works on behalf of Galway Co.Co at following schemes: <ul style="list-style-type: none"> <li>• Ballyaneen Rakerin GWS.</li> <li>• Barnaderg/Gortbeg Gws.</li> <li>• Ballinabanba GWS.</li> <li>• Lydacan GWS.</li> <li>• Caltra Ballymacward Castleblakeny GWS.</li> </ul>	Jan-June 2012
Ben Oldfield, (Geologist). (056)8837100	Galmoy Mines Ltd.	-----	Galmoy, County Tipperary.	G ore body drilling to prescribed verticality a total of 11 No production wells with & 8" dia steel casing installed to target depths of 70-80 meter to facilitate surface backfill of stopes/ cavities with fill material.	Sept-2011-Jan 2012
Noel Haran  071 9111111	Sligo County Council	Peter Conroy Robbie Meehan, (Hydrogeologist)	Ardnaglass, Grange, Co Sligo.	Production well drilling with 8" UPVC screen/casing 0-90 meter, sanitary seal comprising injection by tremie pipe from 37 meter to surface.	June 2012
Orla O'Connell (IE Consulting) (059)9133084	Wicklow County Council, Michael Tinsley Engr (0404)30100	Orla O'Connell	Ashford, Co Wicklow	Decommissioning of trial wells on third party land in Ashford, County Wicklow as part of groundwater protection measures, detailed decommissioning specification including high integrity seal to prevent surface and shallow sub-surface contamination as well as mimicking backfill material as close as possible to original geological formation.	May 2012- July 2012



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Neil McManus (01)8645900	Viridian Power & Energy	Tobin Environmental	Huntstown Co Dublin	Remediation of existing production well BH12 including installation of 7" uPCV screen & casing and well development.	Dec 2011
Griffin Bros Contracting Ltd (066)7141305	Cadbury Irl.	Peter Kelly, Engineer, Malachy Walsh & Partners. (066)7123404	Rathmore, Co Kerry	Test drilling, well testing, water analysis, cctv well surveying.	Aug 2011
Caroline Harney	Caroline Harney	-----	Athlone, Co Westmeath	Installation of 2 no geothermal wells to completed depth 102 meters. Supply and install double 'U' collector pipe tube (Farnk 4x 32mm probes with 1 no farnk 24kg probe.) Pressure testing collector pipe following installation. Injection by tremie pipe stuwathern thermally enhanced grout achieving a density of 1.75-1.85 kg/dm <sup>3</sup> without cement in each mix in one continuous operation in each well.	Oct 2011
Fergal Phillips, (087)8207570	Roadstone.	-----	Fasaroe, Bray.	Drill monitoring well though clay, sand and silt formation to target depth of 43 meters including installation of 36 meter 8" steel casing and 43 meter 2" UPVC standpipe. Grout seal by cement/bentonite mix.	Dec 2011
John Osbourne, Irish National Stud. (045) 521617	Irish National Stud & National Roads Authority (NRA)	Eugene Daly & Associates (01)2876319	Japanese Gardens, Kildare	Turnkey civils, mechanical & electrical pump installation (pump, magflo meter, pressure transducer) in PW01 and PW02 including controls accommodating 3 phase meter, U/Sonic level transducer C/W 800m cable. Extras included supply & install remote control HMI & data loggers. Full, civils reinstatement, reseeding and fencing works.	May 2012
Jack Curley, Construction Manager (087)2578718	BAM/W+F JV	Engineer Michael Gill, Hydro Environmental (086) 2675989	-----	Installation of dewatering wells in 2 phases at Corrib on-shore pipeline at Aughoose and Glengad (reception shaft) including open holing @ 14 1/2" dia to accommodate 10" mild steel casing into rock-head. Drill @ 10" to install 6" uPVC screen & casing to borehole target depth of 25-35 meters. Grout by tremie pipe injection method and well development.	Mar 2012 Sept 2012
Catherine Buckley, ARUP (01)2334455	Pfizer (HA O'Neill)	-----	Grange Castle, Rathcoole, Co Dublin.	Drilling of 4 no test wells at Grange Castle site to explore for groundwater abstraction. Sub-contract well testing & monitoring by S. Kelly & Sons Ltd.	Nov-Dec 2012



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David Nestor (01)825888	David Nestor Freight Services Ltd.		Ballymount, Co Dublin.	Drilling and installation of 2 no wells for truck washing in newly developed freight depot at Ballymount.	Sept 2012
Michael Kelly, 0909745086	Tynagh GWS.	Cyril Kelly & Associates (091)758503	Tynagh, Co Galway.	Drilling of 3 no test wells to supplement existing well field at Tynagh GWS Co Galway.	Nov 2012
Rob McGowan (087)2525130	Kings Laundry	-----	Whitestown, Tallaght, Dublin24.	300mm conductor steel casing installed in production well to 33meter, installation of 8" UPVC and proceeded to retrieve steel casing from 33meter to 28 meter bgl exposing coarse stone gravel aquifer. Formation to 28 meter comprised boulder clay, gravels, significant fines/silt ingress. Well development completed to develop gravel aquifer.	Jan 2013
Mattie Murphy, (093)55500	Rusheen GWS.	-----	Belclare, Tuam, Co Galway.	Supplementary production well to existing scheme as original well had continuous ingress of sand/fines necessitating lifting/replacing pump. New supplementary well drilled @ 375mm installation of 10" steel & 8" steel to close out silt filled cavities. Finished total depth 60meters. Imported gravel pack from 60mtr to 30meters and borehole grouted from 30meters to surface by tremie pipe injection method.	Oct 2012
Kenneth Green. (043) 667 6300.	Green Farm Foods Ltd.	-----	Rathowen, Co Westmeath.	1 no trial well 0-150mtrs preceding drilling of production well. 1 no production well comprising reaming trial well 0-80meters. Starter casing @ 250mm ,250mm openhole, 80meters of 6" uPVC screen/casing. Clean out open hole of trial well from 81meters to 150meters.	March 2012
Pat Cullinane, Engineer.	Meath Co.Co	-----	Longwood, Co Meath	12" dia open hole producing section in waulsortian limestone dolomitised- fractured- containing loose dolomite sand & bright yellow clay. Total borehole depth 102meter. Pump chamber casing @ 8" UPVC 0-50metres. 4 tonne cement grout injection at annulus to 8" PVC casing 0-50meter. Various fractures above 50meters sealed off including fracture at 32meter with visual iron staining in rock cuttings and clay inflow approx 250 gph.	April 2011
Catherine Buckley ARUP. (01)2334455	Murphy Environmental Hollywood Ltd.	Ken Rooney (01)8412827	Naul, Co Dublin.	Installation of 3 No groundwater monitoring wells and 1 no groundwater pumping well. In addition grout by tremie pipe injection 3 No geo-bore investigation boreholes.	June 2010



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Ambrose McGowan School Principal  090~ 6481085		N/A	Mount Temple National School	Drilling 8"dia water well, 5" uPVC Screen/Casing, sanitary seal by tremie pipe injection method.	Feb 2009
Alan Murphy 01~4057762	Kings Laundry	N/A	Tallaght Co Dublin	Turnkey drilling, mechanical/electrical and water treatment of water supply for Industrial Laundrette. 8" uPVC screen/casing well finish in unconsolidated fractured rock. Well capacity exceeding 15m <sup>3</sup> /hr.	May 2010
Michael Delaney 087~ 6791465	Bord na Mona	N/A	Kilberry, Athy Co Kildare	Turnkey drilling, mechanical/electrical to provide excess 23m <sup>3</sup> /hr for irrigation water to hydrate coir in the manufacture of replacement substitute to peat moss.	May 2011
Ric Pascalli 086~ 8239530	GTE, Energy (Ire)	SLR Consulting Engineers	Newcastle Co Dublin	Drilling, with our U.K. Partners, P.R. Marriott Drilling 2 No deep wells to total depth of 1360 metres and 1400 metres by rotary direct mud system for commercial geothermal exploration.	Mar 2009
Philip Maher 01~2011260	Verde Remediation Services Ltd	Philip Maher	Various	Replacement high specification, grout sealed domestic wells (also pump installation and water treatment) due to kerosene contamination of existing wells on various sites.	2009- 2011
Seosamh O'Ruairc 01~2914800	Snowbury Ltd	P.H. McCarthy	Killeen Castle	Trial Wells, testing and reaming of trial wells to Production Well Status including uPVC screen/casing and grout seal by tremie pipe injection method.	2008
Con McCarthy 01~4589966	Sandymark Construction	SLR Consulting	Greenogue	Trial Wells, testing and reaming of trial well to Production Well Status 12"dia openhole.	Jan 2009
John Stapleton 056~8837100	Galmoy Mines	John Stapleton	Galmoy Via Thurles Co Tipperary	Test drilling and well rehabilitation / well development of existing Production Well using direct air and eductor method to develop well.	2008 / 2009



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Eugene Daly 01~2876319	Laois Co Council	Eugene Daly & Associates	Ballyroan Water Supply Augmentation Scheme Co Laois	Starter steel casing 12" dia, completed depth 97metres 5" uPVC screen/casing, grout seal by tremie pipe injection.	July 2010
Gerry Baker 01~2914800	Wicklow Co Council	PH McCarthy Consulting Engineers (White, Young Green)	Arklow Water Supply Scheme Arklow	Simultaneous drilling and casing method drilling gravels/unconsolidated materials for a total of 5 No Production Wells up to 20metres. Provide and install uPVC casing 260 (O.D) connected to Johnson stainless steel screen (273mm O.D).	Jan –Mar 2009
Henning Moe 01~6722700	Boston Scientific Corporation (BSC), Galway	CDM Ireland Ltd	Galway	3 No exploration boreholes to probe groundwater potential on BSC site.	Dec 2010
David Ball 01~4053925	Abbott Ireland Pharmaceuticals Operations	David Ball	Sligo	Exploration drilling and well development. Also Decommissioning of test wells to approved specification	Dec 2010
John Sunderland 01~8867012	Private Client	Cunningham Lindsey Loss Adjusters	Navan, Co Meath	Replacement high specification grout sealed domestic well due to kerosene contamination of existing well	Oct 2010
David Ball 01~4053925	Limerick Co Council	David Ball	Carrigkerry, Co Limerick	12" dia symmetrix drilling through unconsolidated gravels up to 15mtrs. Thereafter proceeded to drill by Down Hole Hammer from 15metres bgl to target depth in black shale bedrock. Supply & fit 8" uPVC grout seal and retrieval of 12" symmetrix temporary casing.	July 2010
Pat English 094~9367072	Harrington Concrete Quarry, Kilkelly	SLR Consulting	Turlough, Co Mayo	Exploration drilling / monitoring drilling	Jan 2011
Fergus Gallagher 01~8026391	Kilsaran Concrete	Michael Gill Hydro-Environmental	Kilmessan	Exploration drilling and well development of pumping wells	Nov 2010



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Eugene Daly 01~2876319	Kildare Co Council (National Roads Authority)	Oliver Higgins Eugene Daly & Associates	Irish National Stud	Drilling 4 No test wells by Symmetrix through alluvial silts and gravels. Follow on phase drilling of 2 No Production wells with starter casing @ 16" dia, drilling by Reverse Circulation. Thereafter installation of 10" dia stainless steel / mild steel casing. Sanitary seal finish by tremie pipe injection method. Well development. Fully self contained drilling discharge system.	2010
Peter Kelly 066~7123404	Cadbury Ireland	Malachy Walsh & Partners	Rathmore Co Kerry	Test Well drilling to target depth excess 160metres also well testing and comprehensive water analysis.	Oct 2010
Pamela Bartley 087 8072744	Jepp Ltd	Hydro G	Kinnegad Co Meath	Exploration drilling to prove excess 60m <sup>3</sup> /day for Commercial Planning Application.	Feb 2010
Peter Oliver Loughnane 047~87107	Truagh Group Water Scheme	T.J. O'Connor Consulting Engineers	Lough Gore Greagh Co Monaghan	Drilling test well and subsequent Production Well to a completed depth 112mtr installing 8" uPVC screen/casing and grout seal by tremie pipe injection method. Works also included 7 day well testing and monitoring of local wells.	April 2011
Peter Conroy 061~374956	Sligo Co Council	Peter O'Connor Robert Meehan (Hydrogeologists)	Grange Co Sligo	North Sligo Raw Water Supply Exploration drilling and testing	May 2011



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Joe Sherran 01~2969416	John Paul Construction	Andre Geysler John Paul Construction	Private Hospital Dublin	Sealing of 2 No Artesian boreholes at basement (- 2 <sup>nd</sup> floor )level.Methodology included injection of ordinary portland cement to prescribed specific gravity with flange fitting on 2 <sup>nd</sup> of 2 wells to contain discharging grout until verification of cement returns to surface	Jan 2010
Oliver Higgins 01~2964667	Laois Co Council	SLR Consulting Engineers	Graiguecullen Co Laois	Drilling 2 No Production Wells by Reverse Circulation drilling 14¾" dia to target depth 72.5metres. Top hole section steel cased @ 18"dia. Supply & install 10" dia Johnson stainless steel casing, pea gravel at annulus to screen and grouted from below competent bedrock (25m) to surface by tremie pipe injection method.	Dec 2009
John Clancy 045~846176	IGSL	IGSL	M20, Cork	M20 Motorway Service Area Water Well, 8" dia openhole to 100mtr, 5" uPVC screen/casing, sanitary seal/grout band by tremie pipe injection method.	June 2009.
David Ball 01~4053952	Richard Quirke Turnpike Casino Co Tipperary	Brian O'Connell & Assoc, (Arch) t John Rooney Fearon, Rooney, O'Neill. ( Engrs)	Turnpike Co Tipperary Proposed Casino development	Exploration drilling and subsequent development of test well to Production Well status including grouting by tremie pipe injection method	Aug 2009  Feb 2010



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<p>Henning Moe 01~6722700</p>	<p>Environmental Protection Agency</p>	<p>CDM Consulting Engineers</p>	<p>Various; Donegal Mayo Kilkenny Cork Louth Galway</p>	<p>Groundwater Works Programme, EPA initiative to establish poorly productive Aquifer catchments around Ireland. This involved drilling well clusters sealed by tremie pipe injection method under strict supervision to ensure no cross contamination between adjacent wells at varying discrete depths. Each site comprised a sloping transect between a recharge area (high-up in the Catchment) and a discharge area (near streams, lakes etc.)</p>	<p>2008-2010</p>
<p>Thomas Campbell 096~9630301</p>	<p>MEIC D.B.O Main Contractor</p>	<p>Thomas Campbell Engineer (MEIC/Glan Aqua)  Pamela Bartley Hydrogeologist)</p>	<p>Galway/Roscommon Group Water Schemes</p>	<p><b>Kilternan GWS:</b> Production well 8" uPVC screen/casing, completed to target depth 52mtrs. Injected grout seal by tremie pipe method. <b>Barnaderg GWS:</b> Production well 10" uPVC (I.D.) screen/casing, completed to target depth 62mtr. Injected grout seal by tremie pipe method. <b>Leacarrow GWS:</b> Production well 10" (I.D.) uPVC screen/casing, completed to target depth 110mtr, Injected grout seal by tremie pipe injection method. <b>Attiregan GWS:</b> Production well 10" uPVC screen/casing, completed to target depth 82mtr, Injected grout seal by tremie pipe injection method.</p>	<p>2010-2011</p>