

ASX Release 31 July 2017

**ASX: LFR** 

# **June Quarterly Activities Report**

#### **HIGHLIGHTS**

- Completion of placement of \$2.363m before costs with 47,261,000 fully paid ordinary shares issued at \$0.05 per share to professional and sophisticated investors.
- Longford's maiden 3,000m drilling programme at Keel Zinc Project started
- Drilling aimed at growing and upgrading current Inferred Resource of 6.9Mt at 5.6% zinc and 0.8% lead (as announced on 7 March 2017)
- Two holes of the initial 12 hole program completed during the quarter
- Assay results from the first two diamond holes at Keel Zinc Project confirm the presence of high grade zinc and silver sulphide mineralisation at shallow depths.
- Best results include:
  - 4m at 14.80 Pb+Zn % and 43.0 Ag g/t from 212m (KD\_2017\_02)
  - 3m at 12.5 Pb+Zn % and 33.0 Ag g/t from 171m (KD\_2017\_01);
  - 2m at 10.00 Pb+Zn % and 39.0 Ag g/t from 203m (KD\_2017\_02);
  - 5m at 7.00 Pb+Zn % and 18.6 Ag g/tfrom 122m (KD\_2017\_01);
  - 3m at 7.20 Pb+Zn % and 31.0 Ag g/t from 156m (KD\_2017\_01);
  - 15m at 7.90 Pb+Zn % and 31.0 Ag g/t from 165m (KD 2017 02); and
  - 83m at 4.10 Pb+Zn % and 29 Ag g/t from 134m (KD\_2017\_02)
- Highest grade individual assay was recorded in Hole KD\_2017\_02 with 21.7% Zinc and 91.6 Ag g/t from 174m to 175m
- Gravity survey at Keel Zinc Project completed
  - Two key gravity anomalies identified, both adjacent to the current Inferred zinc mineralisation
  - o Key Keel Fault Structure continues to north and south of known zinc mineralisation
- Four (T1-T4) potential extensional resource zones identified; Zones T1 and T4 are supported by the gravity anomalies and are along strike from known mineralisation
- Cash at bank \$3.2m
- Company changed name to Longford Resources Limited
- Appointment of Scott Mison as Interim CEO
- Loyalty Option Issue

Longford Resources Limited (**Longford** or **the Company**) (ASX: LFR) is pleased to provide the following review of the activities of the Company for the quarter ended 30 June 2017. During the quarter, Longford started its maiden drilling programme at the Keel Project, changed its name to Longford Resources Limited and completed tranche 2 of a \$3.5m placement.

### **Keel Zinc Project Maiden Drilling Campaign**

During the quarter, Longford started its maiden drilling campaign at the Keel Zinc Project (**Keel**) in Ireland. The assays from the first two holes confirmed the presence of high grade Zinc (Zn) and Silver (Ag) mineralisation at shallow depths (see Table 1).

The two diamond drill holes were completed as part of the first phase of a drilling programme designed to test the current Inferred Resource of 6.9Mt at 5.6% Zn and 0.8% Pb which was prepared following a review of historic data. An additional 10 holes are planned as part of the initial phase of drilling. Following the receipt of the initial assays, the second phase of drilling will be refined to test areas for additional resource tons within, and adjacent to the current Inferred Resource Mineralisation model. These extension resource targets are being developed with CSA Global assistance. This phase of drilling will be subject to exploration success with hole locations and targets to be refined as exploration data is captured and processed. The maiden drill programme is expected to continue for the next few months with a second drill rig brought to site to accelerate drilling.

Table 1: Highlights of Drill Hole Assay

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Drillhole Number	Depth From	Depth to	Interval (downh ole)	Combined Pb+Zn %	Zn %	Pb %	Ag g/t	Mineralisation
KD-2017-001	100	103	3	3.16	2.7	0.5	29	Quartz carbonate veins within limestones
	118	131	13	3.88	3.6	0.3	11.28	
Including	122	127	5	7	6.9	0.1	18.6	Limestone breccia with carbonate-sulphide matrix.
	142	147	5	3.7	3.6	0.1	6.3	Limestone breccia with carbonate-sulphide matrix.
	156	159	3	7.2	5	2.2	31	Fine grained disseminated sulphide within sandstone and quartz carbonate sulphide veining
	171	174	3	12.5	11.8	0.7	33	Fault Zone with quartz, carbonate and sulphide infill
KD-2017-002	105	130	25	1.6	1.4	0.2	5.6	Carbonate sulphide +/- quartz veins in limestone
	134	217	83	4.1	3.9	0.2	14	
Including	134	141	7	3.9	3.8	0.1	6.3	Limestone breccia with carbonate-sulphide matrix.
and	152	156	4	4.3	4	0.3	26	Massive sulphide veins and disseminated fine grained sulphide within intersticial voids in sandstone
and	165	180	15	7.9	7.1	0.8	31	1 to 5 cm massive sphalerite veins disseminated throughout the interval in sandstone
including	178	180	2	14.2	14	0.2	31	Massive sphalerite veins within sandstone
and	203	205	2	10	10	0	39.4	Sphalerite carbonate veins within siltstone, sandstone and conglomerates from basal sequence
and	210	217	7	9.3	9.3	0	27.5	Fault zone/breccia infill within siltstone and mudstones from the Palaeozoic basement.
including	212	216	4	14.8	14.7	0.1	43.6	Fault zone/breccia infill within siltstone and mudstone from the Palaeozoic basement

Note: All samples dispatched to ALS Minerals Ireland for ME-S61 analysis. All samples over 1 % Zinc re-assayed using OG-62 -Ag, Pb, ZN. All samples collected at 1 m sample intervals using half core sample. Only samples over 1% Zinc are reported in this table.

Note that the intercepts are not true widths but broadly conform to Inferred Mineralisation Resource see figure 4.

The Keel Zinc Project is a large zinc mineralisation envelope with high-grade zones within the moderate grade envelope.

The first two diamond drill holes, KD-2017-001 & 002 (Figure 1 & 2) reached the targeted depth of 224m and 250m respectively. The holes performed as expected drilling through both Waulsortian and Navan Beds, dominant formations for hosting the Zinc ores of Ireland, and ending in the Silurian basement.

Several generations of sphalerite mineralisation can be identified within the drilling. Mineralisation included very fine grained disseminated sphalerite, semi-massive honey-gold zinc rich sphalerite and late recrystallization of euhedral sphalerite crystals within cavities. Galena is also present in the system but to a lesser extent.

The Keel system has strong mineralisation and is structurally controlled within the Keel Fault system. The high grade mineralisation presents as fracture fill/ brecciated matrix zones (Figure 3). Mineralisation is not controlled by rock type as can be seen in table 1 with mudstone, limestones, and sandstone all hosting ore grade mineralisation.

The core shows evidences of strong hydrothermal alteration with dolomitization of carbonates and silicification of sandstones.

The current drilling program consists of 12 holes (Table 2), designed to test the spatial extent of the Keel Inferred Mineral Resource.

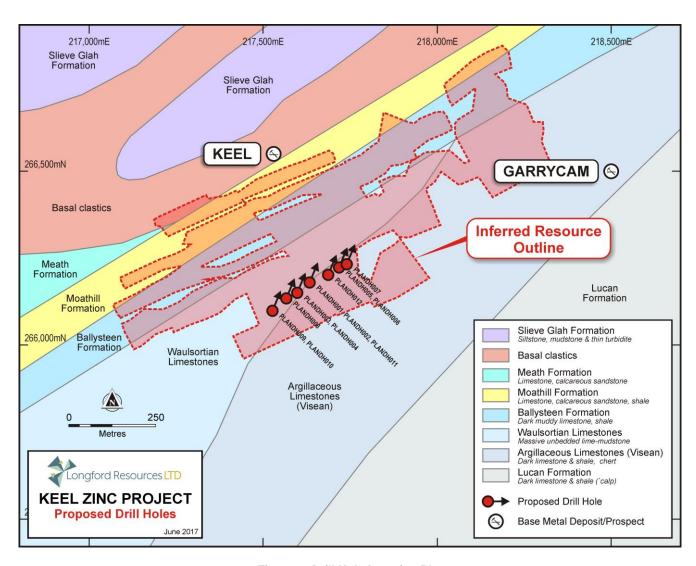


Figure 1: Drill Hole Location Plan

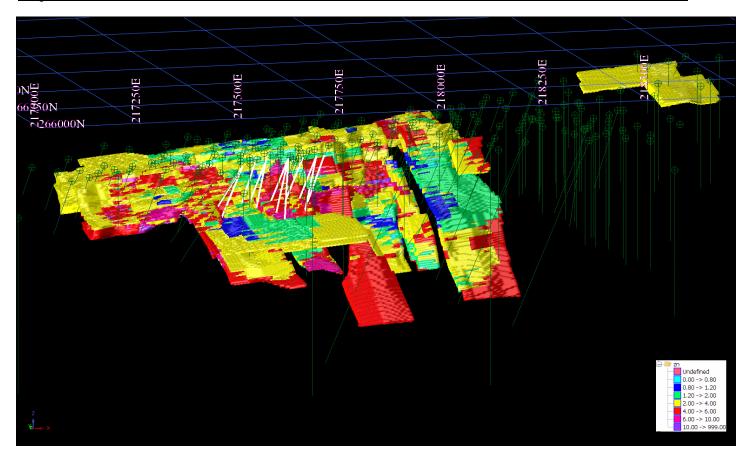


Figure 2: Planned Drill holes in 3D Inferred Mineralisation Resource looking NNE

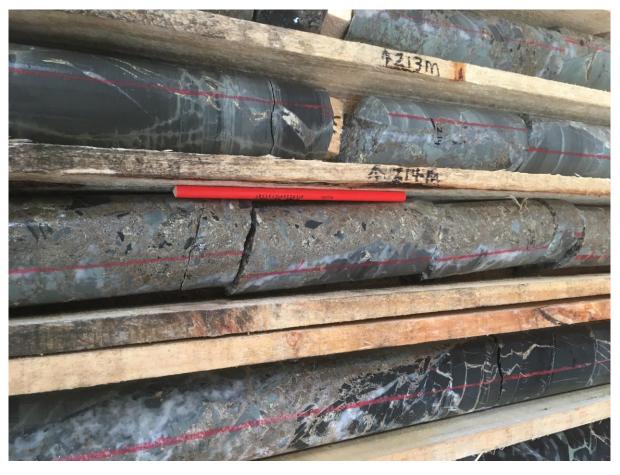


Figure 3: KD-2017-002 Mineralised fault and breccia in the Keel Fault zone

Table 2: Proposed Drill Holes

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Hole_ID	Irish grid East	Irish Grid North	ORIG_RL	Max_Depth	DIP	ORIG_AZIMU	
KD-2017-001	217634	266180	124	224	-65	350	
KD-2017-002	217634	266180	124	250	-75	350	
PLANDH011	217634	266180	120	250	-85	350	
PLANDH003	217598	266150	120	240	-61	335	
PLANDH004	217598	266150	120	240	-74	335	
PLANDH005	217718	266223	120	250	-71	335	
PLANDH006	217718	266223	120	250	-80	335	
PLANDH007	217740	266232	120	260	-74	335	
PLANDH008	217567	266134	120	215	-65	335	
PLANDH009	217527	266098	120	235	-60	335	
PLANDH010	217527	266098	120	235	-50	335	
PLANDH012	217687	266201	120	250	-67	335	

#### **Gravity Survey Completed**

During the quarter, the Company started the gravity survey. As announced on subsequent to quarter end (25<sup>th</sup> July 2017) the gravity survey identified two significant anomalies close to the existing Inferred Resource (6.9Mt at 5.6% zinc and 0.8% lead). At the same time, the structural interpretation shows that the key fault structure which controls the mineralisation continues to the north and south of the known mineralisation, highlight the strong potential for grow the Resource.

## Preliminary Extensional Resource Zones

As part of its ongoing exploration efforts, Longford engaged CSA Global to delineate areas near the existing mineralised envelope that require further drilling. Four zones were identified. T1-T4. (see figure 4) which have the potential to lift the existing inferred resource. CSA's first-pass targeting was focused on obvious gaps in drilling in the mineralised zone and areas with direct extension potential. This targeting is considered preliminary only with the understanding that it would be reviewed and re-designed based on drill results from the resource validation programme.

Longford considers T1 and T4 as key areas of interest. Both areas have significant scale and coincident gravity anomalies (Figure 5) supporting the geological interpretation. Longford intends to drill a stratigraphic drill hole into T4 to test the geological interpretation and fault position.

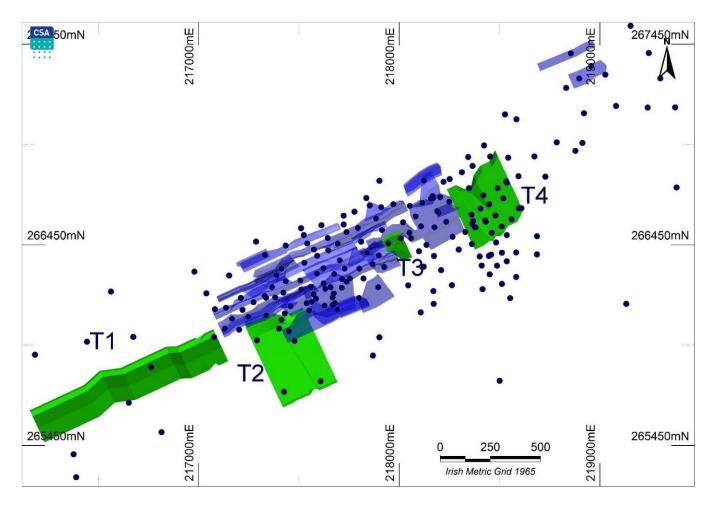


Figure 4: Plan view showing existing Mineral Resource wireframes (blue) and target wireframes (green)

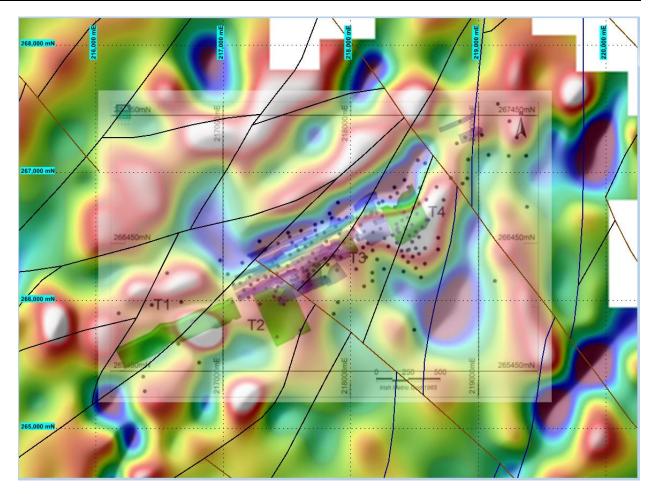


Figure 5: Gravity Image overlay Structural Inpreation and the Extension Resource Zones T1-T4

#### Description of the Four Prospective Zones Identified by CSA

**T1 zone** is along strike of the Keel Main Fault in the direct southwest continuation of the main zone mineralisation. Although mineralization has been partly closed off at the southwest end of the resource, the area further southwest is poorly tested and mostly by shallow holes. There is also surface geochemical anomalism, especially in Zn, over the Navan Beds and Basal Clastics; this may represent up-dip leakage anomalism. **Note discrete gravity anomaly over T1.** 

**T2 zone** is down dip of the Keel Main Fault, in a similar position as KA167. This position is previously untested to the southwest of KA167. KA165 which is 225 m northeast of KA167 only intersected very weak mineralisation, however the zone could strengthen to the southwest related to a fault relay. (Fault relay are main structural host of the zinc)

**T3 zone** is up dip of Keel Main Fault. There is a 100m of strike here that has not been tested previously. The upside tonnage potential from this hole is limited and it is considered low priority.

**T4 zone** is along strike of Keel Fault, below the Garrycam barite mineralisation which occurs in the basal Waulsortian limestone. The Garrycam mineralisation is also variably anomalous in Zn (approx. 2.5% Zn) and is considered part of the same mineralising system, similar to the situation at Silvermines/Ballynow where massive barite occurs peripherally to the massive sulphide orebodies. **Note gravity anomaly over T4.** 

The Garrycam barite mineralisation was closely drilled, but the holes were not deep enough to test the Keel Fault position close to the Lower Palaeozoic contact in Navan beds below ABL Unit.

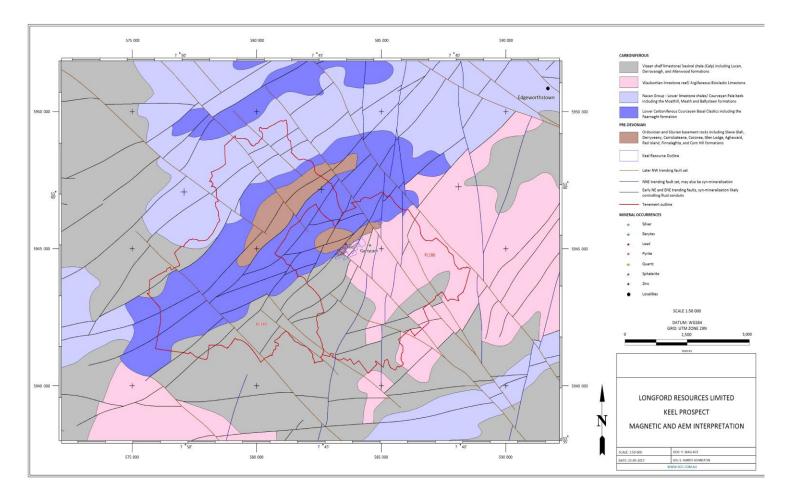


Figure 6: Geophysical interpretation of Keel Zinc Project.

#### FRASER RANGE PROJECT

The Company continues to review the viability of the Fraser Range Project. Work completed during the quarter included desk top studies and an ongoing review of the regional structural analysis.

# **CORPORATE**

During the quarter, held a general meeting, where shareholders approved the change of name of the Company to Longford Resources Limited.

At that same meeting shareholders approved the issue of 47,261,000 fully paid shares in the Company at \$0.05 per share to sophisticated investors (**Placement**) to raise \$2.363m. The Placement was well supported reflecting strong interest in the Keel Zinc Project and upcoming drill programmes.

Longford held cash of \$3.2m at 30 June 2017.

The Company also announced a pro rate bonus issue of Options. The record date is 31 July 2017 for eligible shareholders of the Company who hold shares at the new proposed record date and will be granted one (1) free Bonus Option for no consideration for every three (3) shares held in the Company. The Bonus Options will be exercisable at a price of 5 cents (\$0.05) and will expire on the date that is twelve (12) months from the date of issue.

During the quarter the company appointed Non-Executive Director, Scott Mison as Interim Chief Executive Officer.

Investors
For further information, please contact:

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Interim CEO
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#### Forward Looking Statements

The announcement contains certain statements, which may constitute "forward –looking statements". Such statements are only predictions and are subject to inherent risks and uncertainties, which could cause actual values, results, performance achievements to differ materially from those expressed, implied or projected in any forward-looking statements.

The information in this report that relates to previous exploration results is collected from Minerals Ireland reports submitted by other explorers.

#### Competent Person Statements

The information in this report that relates to Exploration Results is based on information compiled by Mr Charles Guy a director of the Company, and fairly represents this information. Mr Guy is a Member of The Australian Institute of Geoscientists. Mr Guy has sufficient experience which is relevant to style of mineralisation and type of deposit under consideration and to the activity being undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Charles Guy consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Mr Guy, director, currently holds securities in the Company.

# **Appendix 3 - Tenement Schedule**

Tenement	Project	Location	Ownership	Change in Quarter
PL 185 &186 <sup>1</sup>	Keel Zinc Project	Ireland	Diversified Assets Holdings <sup>1</sup> 100% Longford has 12- month option to purchase 80%	Nil
E28/2209 <sup>2</sup>	Fraser Range	Fraser Range	100%	Nil
E28/2210 <sup>2</sup>	Fraser Range	Fraser Range	100%	Nil
E63/1528	Fraser Range	Fraser Range	100%	Nil
E04/2423	Western Kimberley	Kimberley	Fissure Exploratoion <sup>3</sup>	Nil
E04/1972	Western Kimberley	Kimberley	80%	Nil
E04/2314	Western Kimberley	Kimberley	Application <sup>4</sup>	Nil

#### Note

- 1. 12-month option to purchase Keel Zinc Project. Expires 5 March 2018
- 2 Application for extension of term to be submitted (Nb. Subject to ministerial approval)
- 3 Fissure Exploration Pty Ltd 100% owned Longford Resources Ltd
- 4 Longford has an option to purchase 80% of Application E04/2314

Mining Tenements Acquired and Disposed during the June 2017 Quarter  $\operatorname{Nil}$ 

Beneficial Percentage Interests Held in Farm-In or Farm-Out Agreements during the June 2017 Quarter Nil

Beneficial Percentage Interests Held in Farm-In or Farm-Out Agreements Acquired or Disposed of during the June 2017 Quarter

Nil