

## **LONGHORN EXPLORATION CORP. ANNOUNCES GEOPHYSICAL SURVEY AND GEOCHEMICAL SOIL SURVEY RESULTS ON THE FAME PROPERTY**

**News Release - Vancouver, British Columbia – October 12, 2022:** Longhorn Exploration Corp. (TSX-V: LEX) (the “Company”) is pleased to announce that it has completed its 2022 exploration program on the Company’s Fame property which is located on the Chilcotin plateau west of 100 Mile House, B.C. in the Clinton Mining Division. The program was comprised of a geochemical soil sample survey and a three-sensor gradient magnetic airborne survey.

### **Geophysical Survey**

The Company retained Precision GeoSurveys to conduct the airborne geophysical survey and Discovery Consultants to execute the soil sampling program. Discovery Consultants was responsible for putting together the assessment report based on historical information generated by previous operators and new information generated by the 2022 soil geochemical program and the magnetic airborne survey. The aeromagnetic survey was flown with three magnetic sensors with a known separation to measure the magnetic gradient as the difference in magnetic field between the sensors divided by the distance. This has significant advantages in situations when the magnetic targets are shallow. The survey was flown in a systematic low-level grid pattern as determined by the Company. Tie lines were flown normal to survey lines at a rate of one tie line for every ten survey lines.

A northeast-trending area of low magnetic susceptibility, approximately 1.2 km wide, was outlined and confirmed. It is coincident with the previously outlined Kelsch lineament, and with the known showings on the Property, namely the Discovery, Kelsch, Double Diamond and Twilight showings. A similar, parallel magnetic low region trends along Gaspard Creek, which lies about three kilometres to the southeast. Secondary cross-cutting lineaments are outlined, trending to the northwest. The magnetic gradient survey has better defined these structural variations as well as provided better contrast to smaller, shallower magnetic bodies which lie outside of the northeast-trending magnetic low.

### **Geochemical Soil Survey**

The soil geochemical survey was focussed on the northeast portion of the Property and was designed to extend the 2011 soil survey to the north and east, targeting the extension of the northeast trend of mineralization. The grid consisted of 19 north-south lines at 100- metre spacing, and sampling at 50- metre spacing. Approximately 830 soil samples were collected.

A statistical analysis using probability plots was used to determine the gold and copper anomalous classification of the soil samples. The classification was based on a database comprising the 2022 samples along with the over 4,000 samples collected in 2011. For gold, anomalous gold values occur at values between 10 and 85 ppb Au, and highly anomalous samples occur above 85 ppb Au.

An area of anomalous gold lies in the northwest part of the 2022 grid and forms a northeast extension of the gold-in-soil anomaly noted in the 2011 soil survey. It forms a northeast extension of mineralization trend previously discovered, namely the Kelsch, Double Day – Discovery Zone showings.

The program also identified other gold anomalies, including a cluster of anomalous gold-in soil samples occurs in the southwest corner of the 2022 grid, where five samples contain anomalous gold. This anomaly remains open to the south.

A single soil sample occurs in the northeast corner of the 2022 grid, having a highly anomalous gold value of 796 ppb Au. This area requires further prospecting to determine the source of the anomaly. Although copper values were not highly anomalous, one soil sample carried 134 ppm Cu. Located in the southeast portion of the grid, the location warrants follow-up in the field.

### **Methodology and QA/QC**

The geochemical soil samples reported above were delivered to Bureau Veritas, Vancouver, B.C. Bureau Veritas is an accredited geanalytical laboratory and is independent of the Company and the QP. The Company followed industry standard procedures for the work carried out on the Fame property, with a quality assurance/quality control (QA/QC) program. The Company detected no QA/QC issues during review of the data.

### **Qualified Person**

The scientific and technical information contained in this news release has been reviewed and approved by Chris Dyakowski P.Geo, a consultant of the Company, the optionor of the Fame property and a “Qualified Person” as defined in National Instrument 43-101 – *Standards of Disclosure for Mineral Projects*. Mr. Dyakowski verified the data disclosed which includes a review of the sampling, analytical and test data underlying the information and opinions contained therein. Grab samples described above are selective by nature and reported grades might not be representative of more extensive mineralized zones.

**About Longhorn Exploration Corp.:** Longhorn Exploration Corp. is a mineral exploration company focused on the acquisition, exploration and development of mineral resource properties. The Company has an option to acquire a 100% interest and title to the Fame property located in the Clinton Mining Division, British Columbia.

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