Sample Program Details

The Alberta Geological Survey has collected and analyzed the samples from the field and laboratory processes. The samples were collected from the Orinoco Belt, as well as from the Edmonton and St. Albert areas. The samples were collected using a variety of techniques, including routine gas analysis and TSA.

Volatile Organic Compounds and Reduced Sulphur Compounds

Routine gas analysis and TSA were carried out to determine the concentration of VOCs and RSCs in the samples. The results were compared with the odour threshold values for VOCs and RSCs.

Odour Threshold Exceedances

Table 4. 80-flash gas results exceeding odour thresholds for C1-C7 hydrocarbons, inert gases, CO2, and H2S.

Table 5. 25-flash gas results exceeding odour thresholds for VOCs and RSCs.

Conclusions

There are currently four geological units in the PROS area with heavy oil and bitumen deposits: the Beauvalt-Gething, the Beauvalt-Drolet, the Beauvalt-Palmer, and the Beauvalt-Fort. The Beauvalt-Gething play is characterized by heavy oil and bitumen deposits, while the Beauvalt-Drolet, the Beauvalt-Palmer, and the Beauvalt-Fort are characterized by a mixture of heavy oil and bitumen deposits.

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