

SAGASCO RESOURCES LTD.

KING-1

**COMMENT****Well Geophone Survey**

A static rig source check shot survey was conducted in the above well on 21st November, 1992 using a Bolt 1500C airgun source positioned 47m from the well head. The airgun was suspended 5m below MSL with a MP8D hydrophone placed 3.5m below MSL to monitor the airgun signature.

The intended total depth for the survey was 2223m but the tool was unable to get below 1903m due to suspected washout/ledge caused during the previous wiper trip.

A total of 63 levels were recorded between 1900m and 73m below RT. In order to monitor the consistency of the depth measuring device, and to check for any cable stretch, shots were taken as the tool descended the borehole at 73m, 500m, 1000m and 1500m. The tool was then lowered to 1900m and data was recorded at selected depths as the tool ascended the borehole.

The first arrival times for the repeated levels showed a small time discrepancy of 1ms which confirms there were no depth errors during the course of the survey. The level recorded at 73m was affected by casing signals, masking the first arrival. The level was therefore not use in the computations

The recorded well geophone data, other than 73m was generally of reasonable quality with well defined first arrival troughs, allowing the preliminary times to be obtained by timing from the first trough on the gun hydrophone signal to the first trough of the well geophone signal.

The 32 check levels within the depth of the velocity log were used for the log calibration, while 61 levels were used in calculating the velocity model above the sonic log.

For the calculation of reliable interval velocities check levels have been combined at not less than 100m vertical depth intervals. Similarly only those levels used in the calculation of the interval velocities have been included in the sectional display.

**Log Calibration**

The sonic logs are generally well recorded.

The calibration curve is generally well controlled by the check level data. The shifts have been chosen according to changes in formation.

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