

GEOPHYSICIST I/IIKind of Work

Professional work in the field of Geophysics.

Distinguishing Features of Work

An employee in this class performs a variety of Geophysical work relating to exploration and development in the Petroleum and Mining Industry. Work involves the collection and/or interpretation of data obtained from geophysical surveys and preparation of Geophysical maps and reports. Assignments are received from a professional superior and work is performed in accordance with established policies, procedures and practices and is reviewed through inspections, reports and discussions for accuracy and proper interpretation of data.

Examples of Work

Conducts seismic field surveys to gather data on subsurface rock formation using such physical and electrical testing instruments as seismograph, gravimeter, tension balance, magnetometer, pendulum devices and electrical resistivity apparatus to measure various characteristics of land and marine areas of Trinidad and Tobago.

Computes from instrument readings, variations in physical forces existing at different locations and interprets data in the form of geophysical maps illustrating isochronal and structural contours.

✓ Determines desirable locations for drilling operations with a view to locating oil and other mineral deposits.

✓ Evaluates and recommends field procedures and data processing techniques to improve the quality of data obtained from geophysical surveys.

Overseas field crews involved in the surveying and drilling of shallow boreholes in designated terrain.

Performs related work as may be required.

Required Knowledge, Skills and Abilities

Knowledge of the principles and practices of Geophysics.

Knowledge of the geophysical formations and strata from which gas, oil and other mineral deposits are obtained.

Ability to interpret and analyze data and to prepare geophysical maps and reports.

Ability to establish and maintain effective working relationships with other employees.

Minimum Experience and Training

Training as evidenced by a recognized University Degree in Geophysics; or its equivalent.