

- (z.) In installing new plant and effecting repairs and alterations, none other than an authorised person, or a competent person acting under his immediate supervision, shall undertake any work where technical knowledge or experience is required to secure safety.

*General Regulations.*

288. In the case of every oil-well there shall be kept on the premises or in the office—

- (a.) An accurate plan drawn to a scale of 1 in. to a chain, kept up to a date not more than three months previously, showing the boundaries of the property, the position of all well operations, tanks, gasometers, machinery, buildings, refineries, pipe-lines, electrical transmission-lines, installations, fences, and roads.
- (b.) Accurate sections of all wells drilled or being drilled up to a date not less than one month previously, showing the dimensions of the well and the casing, the character of the strata penetrated, and quantity of oil, water, or gas encountered, and how dealt with. Such sections to be drawn to a vertical scale of 1 in. to 100 ft., and a horizontal scale of 1 in. to 1 ft.
- (c.) An accurate journal of the drilling of every well up to twenty-four hours previously, such journal showing the character and depth of the strata penetrated, the dimensions of the well and of the casing, the quantity and character of the oil, water, or gas encountered and how dealt with, and the dates during progress.

289. The operator or manager shall at all reasonable times produce such plan, sections, or journal, and permit the same to be copied by an Inspector, or by any other person whom any Inspector authorises on that behalf, and also—

- (a.) Shall, whenever requested by an Inspector or other person so to do, accurately mark on such plan or section the progress of the well operations up to the time of such request, and shall allow such Inspector or person to examine and take a copy or tracing thereof; and also
- (b.) Shall forward to the Inspector once in every three months a copy or tracing of such plan and section, showing the well operations up to one month previously marked accurately thereon.

290. Every plan and section of well operations shall be signed and dated by the person who surveyed such operations, upon every occasion when additions are made to such plan or section.

291. Every journal of well operations shall be signed and dated by the well-manager.

292. Drilling shall be discontinued during lightning, when all workmen shall leave the derrick and connected buildings.

293. Drilling shall be suspended during a dangerous outburst of gas or oil, unless the well is securely capped with a safety device.

294. There shall be provided and maintained at all well operations a stretcher and ambulance containing first-aid appliances for use in cases of accident.

295. Every manager and supervisor shall be acquainted with the methods of first aid to the injured.

296. If oil-engines are used for pumping in wells they shall be subject to the regulations prescribed for steam boilers, so far as the same are applicable.

297. If electric or gas motors are used for pumping in wells the foregoing regulations for the working of motors and electric installations shall be observed.

298. No explosive shall be used in or about any well or well operations without written authority from the Inspector.

299. A printed copy of these regulations shall be posted on a building or board in some conspicuous place in connection with every well.

300. The owner of any well, and any manager and any person in charge of or giving orders or directions relating to the carrying-on of well operations, who contravenes or does not comply with any of the foregoing regulations shall be guilty of an offence, and shall be severally liable to a penalty of £10 in respect of such offence, unless the offender proves that all reasonable means were taken by him to prevent such contravention or non-compliance.

301. Every person other than as mentioned in the last preceding regulation, whether or not employed in or about any mine, who neglects or wilfully violates any of the special or additional rules established for such mine is liable for every such offence to a fine not exceeding £5, or, in default of payment, to be imprisoned for any period not exceeding one month.

REGULATIONS FOR THE INSTALLATION OF ELECTRICITY.

*Definition.*

302. The expression "pressure" means the difference of electrical potential between any two conductors through which a supply of energy is given, or between any part of either conductor and earth as read by a hot wire or electrostatic voltmeter, and—

Where the conditions of the supply are such that the pressure at the terminals where the electricity is used cannot exceed 250 volts, the supply shall be deemed a low-pressure supply;

Where the conditions of supply are such that the pressure at the terminals where the electricity is used, between any two conductors, or between one conductor and earth, may at any time exceed 250 volts, but cannot exceed 650 volts, the supply shall be deemed a medium-pressure supply;

Where the conditions of supply are such that the pressure at the terminals where the electricity is used, between any two con-