

- from any well, tank, or gasometer, and the point of light when using such lamps shall be at least 40 ft. high.
- (p.) Within a radius of 150 ft. from any well, tank, or gasometer the conductors shall be covered with approved insulation, such as double cotton insulation or double cotton braiding impregnated with red lead, or with simple cotton braiding and asbestos covering. The use of rubber insulation is not permitted within the area hereinbefore specified.
- (q.) If the switches and fuses are within 150 ft. of a well switches of gastight construction shall be used, and fuses shall be enclosed in gastight boxes. The use of ordinary lead wire for fuses is prohibited.
- (r.) Every fuse shall be enclosed in a properly constructed box, and shall be of such construction, or so protected by a switch that it may be renewed without danger.
- (s.) Joints in conductors shall be carefully made, soldered, and completely insulated and protected by waterproof tape. The jointing of wires by simple bending is not sufficient, and is prohibited.
- (t.) At the derricks and adjacent buildings all conductors shall be run in metal conduits, which shall be electrically continuous and effectively earthed.
- (u.) All motors shall be constructed so that when any part is live all rubbing-contacts (commutators and slip-rings) are so arranged or enclosed as to prevent open sparking.
- (v.) The pressure shall be switched off the apparatus immediately any open sparking occurs, and during the whole time an examination or adjustment disclosing parts liable to open sparking is being made. The pressure shall not be switched on again until the apparatus has been examined and the defect (if any) has been remedied or the adjustment made.
- (w.) Every portion of the electrical installation, including all structural parts and electric appliances and devices belonging to or connected therewith, shall be duly and efficiently maintained. The plant shall be examined at least every six months, and at such examination it shall be specially ascertained if the whole installation complies with the regulations for safety from fire. The examination shall be made by the Inspector, and the faults which are discovered shall be immediately rectified.
- (x.) During stoppages of work all pressure shall be switched off, and in the event of a dangerous blowout from any well the lights at the derrick shall be immediately switched off.
- (y.) All broken or damaged protecting glasses shall be immediately replaced by new ones, and the replacement of lamps shall only be done after the pressure has been switched off. Whenever possible, repairs shall be effected in daylight.
- (z.) In installing new plant and effecting repairs and alterations none other than an authorized 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.

289. 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.

290. The owner, 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 authorizes 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.

291. 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.

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

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

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

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

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

297. 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.

298. 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.

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

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

301. 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.

301A. Every person other than as mentioned in the last preceding regulation, whether or not employed in or about any oil-well, who neglects or wilfully violates any of the special or additional rules established for such oil-well 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.

ELEVENTH SCHEDULE.

[Form 117, Reg. 202.]

Under the Mining Act, 1908, and Amendments thereto.

APPLICATION FOR LICENSE TO BORE FOR PETROLEUM OR OTHER MINERAL OILS OR NATURAL GAS.

To the Hon. Minister of Mines, Wellington, N.Z.

PURSUANT to section 15 of the Mining Amendment Act of 1919, and regulations thereunder, I [*Insert full name, occupation, and address*], hereby apply on behalf of for a license to bore for [*State whether petroleum or other mineral oils, or natural gas*] on the land described in the Schedule hereto and marked on the accompanying plan; and I undertake to carry on all operations under this license, if same be granted, strictly in accordance with the provisions of the Mining Act, 1908, and its amendments, and the regulations made thereunder.

Dated at this day of , 19 .

SCHEDULE.

Insert full description of land, giving area, boundaries, section and block numbers, and names of survey district and county wherein situated, also state whether held under mineral prospecting warrant, mineral lease, or any other title. Give full particulars.

[Form 118, Reg. 203.]

Under the Mining Act, 1908, and Amendments thereto.

LICENSE TO BORE FOR PETROLEUM OR OTHER MINERAL OILS OR NATURAL GAS.

PURSUANT to the Mining Act, 1908, and its amendments, I, the undersigned, , Minister of Mines for the Dominion of New Zealand, do hereby grant to this license to bore for petroleum or other mineral oils or natural gas upon the land specified in the Schedule hereto, and marked upon the plan numbered lodged in the office of the