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and procedures as set forth in the applicable laws, regulations, lease terms and conditions, and the approved drilling plan or subsequent operations plan. Before approving any Application for Permit to Drill submitted pursuant to § 3162.3-1 of this title, or other plan requiring environmental review, the authorized officer shall prepare an environmental record of review or an environmental assessment, as appropriate. These environmental documents will be used in determining whether or not an environmental impact statement is required and in determining any appropriate terms and conditions of approval of the submitted plan.

(b) The operator shall exercise due care and diligence to assure that leasehold operations do not result in undue damage to surface or subsurface resources or surface improvements. All produced water must be disposed of by injection into the subsurface, by approved pits, or by other methods which have been approved by the authorized officer. Upon the conclusion of operations, the operator shall reclaim the disturbed surface in a manner approved or reasonably prescribed by the authorized officer.

(c) All spills or leakages of oil, gas, produced water, toxic liquids, or waste materials, blowouts, fires, personal injuries, and fatalities shall be reported by the operator in accordance with these regulations and as prescribed in applicable order or notices. The operator shall exercise due diligence in taking necessary measures, subject to approval by the authorized officer, to control and remove pollutants and to extinguish fires. An operator's compliance with the requirements of the regulations in this part shall not relieve the operator of the obligation to comply with other applicable laws and regulations.

(d) When reasonably required by the authorized officer, a contingency plan shall be submitted describing procedures to be implemented to protect life, property, and the environment.

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(e) The operator's liability for damages to third parties shall be governed by applicable law.

[47 FR 47765, Oct. 27, 1982. Redesignated and amended at 48 FR 36583-36586, Aug. 12, 1983, further amended at 53 FR 17363, May 16, 1988; 53 FR 22847, June 17, 1988]

§ 3162.5-2 Control of wells.

(a) *Drilling wells.* The operator shall take all necessary precautions to keep each well under control at all times, and shall utilize and maintain materials and equipment necessary to insure the safety of operating conditions and procedures.

(b) *Vertical drilling.* The operator shall conduct drilling operations in a manner so that the completed well does not deviate significantly from the vertical without the prior written approval of the authorized officer. Significant deviation means a projected deviation of the well bore from the vertical of 10° or more, or a projected bottom hole location which could be less than 200 feet from the spacing unit or lease boundary. Any well which deviates more than 10° from the vertical or could result in a bottom hole location less than 200 feet from the spacing unit or lease boundary without prior written approval must be promptly reported to the authorized officer. In these cases, a directional survey is required.

(c) *High pressure or loss of circulation.* The operator shall take immediate steps and utilize necessary resources to maintain or restore control of any well in which the pressure equilibrium has become unbalanced.

(d) *Protection of fresh water and other minerals.* The operator shall isolate freshwater-bearing and other usable water containing 5,000 ppm or less of dissolved solids and other mineral-bearing formations and protect them from contamination. Tests and surveys of the effectiveness of such measures shall be conducted by the operator

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using procedures and practices approved or prescribed by the authorized officer.

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§ 3162.5-3 Safety precautions.

The operator shall perform operations and maintain equipment in a safe and workmanlike manner. The operator shall take all precautions necessary to provide adequate protection for the health and safety of life and the protection of property. Compliance with health and safety requirements prescribed by the authorized officer shall not relieve the operator of the responsibility for compliance with other pertinent health and safety requirements under applicable laws or regulations.

[47 FR 47765, Oct. 27, 1982. Redesignated and amended at 48 FR 36583-36586, Aug. 12, 1983, further amended at 53 FR 17363, May 16, 1988]

§ 3162.6 Well and facility identification.

(a) Every well within a Federal or Indian lease or supervised agreement shall have a well identification sign. All signs shall be maintained in a legible condition.

(b) For wells located on Federal and Indian lands, the operator shall properly identify, by a sign in a conspicuous place, each well, other than those permanently abandoned. The well sign shall include the well number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds). When approved by the authorized officer, individual well signs may display only a unique well name and number. When specifically requested by the authorized officer, the sign shall include the unit or communitization name or number. The authorized officer may also require the sign to include the name of the Indian allottee lessor(s) preceding the lease serial number. In all cases, individual well signs in place on the effective date of this rulemaking which do not have the unit or communitization agreement

number or do not have quarter-quarter identification will satisfy these requirements until such time as the sign is replaced. All new signs shall have identification as above, including quarter-quarter section.

(c) All facilities at which Federal or Indian oil is stored shall be clearly identified with a sign that contains the name of the operator, the lease serial number or communitization or unit agreement identification number, as appropriate, and in public land states, the quarter-quarter section, township, and range. On Indian leases, the sign also shall include the name of the appropriate Tribe and whether the lease is tribal or allotted. For situations of 1 tank battery servicing 1 well in the same location, the requirements of this paragraph and paragraph (b) of this section may be met by 1 sign as long as it includes the information required by both paragraphs. In addition, each storage tank shall be clearly identified by a unique number. All identification shall be maintained in legible condition and shall be clearly apparent to any person at or approaching the sales or transportation point. With regard to the quarter-quarter designation and the unique tank number, any such designation established by state law or regulation shall satisfy this requirement.

(d) All abandoned wells shall be marked with a permanent monument containing the information in paragraph (b) of this section. The requirement for a permanent monument may be waived in writing by the authorized officer.

[52 FR 5391, Feb. 20, 1987, as amended at 53 FR 17363, May 16, 1988]

§ 3162.7 Measurement, disposition, and protection of production.

§ 3162.7-1 Disposition of production.

(a) The operator shall put into marketable condition, if economically feasible, all oil, other hydrocarbons, gas, and sulphur produced from the leased land.

(b) Where oil accumulates in a pit, such oil must either be (1) recirculated through the regular treating system and returned to the stock tanks for sale, or (2) pumped into a stock tank