



Application for a Waste Water Disposal Well

1. A submission in support of an application for a waste water disposal well under section 17.1 of *The Oil and Gas Conservation Act* shall contain, where possible:
 - (a) The location and co-ordinates of the proposed disposal well.
 - (b) The history of the well if such well is to be recompleted or converted. This should include all perforations, cement squeezes, workovers, etc., presented chronologically from the finished drilling date to the time of the application.
 - (c) A general discussion of the geology in the vicinity of the proposed disposal well, along with a geological cross-section of the pool including the well in question, highlighting the injection formation and the associated oil-water contact, porosity, permeability, drill stem tests, perforations, etc.
 - (d) A contour map of the top of the injection zone showing the latest status of all oil and gas wells and dry holes in the vicinity of the proposed injection well.
 - (e) The depth and thickness of the zone within the formation into which the water is to be injected.
 - (f) The cumulative and latest average rate of production of oil, water and gas from all produced zones in the subject well.
 - (g) A discussion of the zone(s) from which wells in the area are producing or have produced, giving the reservoir characteristics of the zone(s) and the production history, if any, of surrounding wells from the injection formation.
 - (h) A description of the casing and completion method for the proposed disposal well, including all required cement squeezes, new perforations, depth packer is to be set at, etc. (include a diagrammatic sketch of the downhole equipment configuration).
 - (i) The proposed internal and external corrosion protection for the entire surface and subsurface disposal system including mention of inhibited fluid in the tubing/production casing annulus.
 - (j) A diagrammatic sketch or sketches showing surface equipment, including wellhead, piping arrangement, method of cleaning or chemical treatment of waste water, together with the method of measuring water for disposal.
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- (k) A description of the fluid to be injected, including its origin, estimated total daily amount to be injected, along with proposed injection pressure required, and other information incidental to the fluid being disposed of.
 - (l) An indication of whether the injection well is to be used by parties other than the applicant.
 - (m) Such further information as the department may require.
2. The application shall be accompanied by the written consent of all owners and all fee simple mineral owners, other than the Crown, (ie. freehold owners) that may be adversely affected by the disposal. Reasonable technical interpretation must be used to determine which owners may be adversely affected. As a minimum requirement, the written consents of the fee simple mineral owners on whose land the well is located must be provided. Also, the written consents of the offset operators must be provided, if the proposed injection is into an oil bearing formation.
 3. The submission shall be in written and illustrated form, signed by an officer of the company making the application, and appropriately bound.
 4. The applicant shall, upon request, provide additional copies of the submission to any owners or operators directly affected.
 5. Submit two (2) copies of each application to:

Engineering Services Branch
Saskatchewan Industry and Resources
200 - 2101 Scarth Street
Regina, Saskatchewan S4P 2H9
 6. For further information contact Candy Dominique at (306) 787-2319, cdominique@ir.gov.sk.ca or Mike Montenegro at (306) 787-4285.