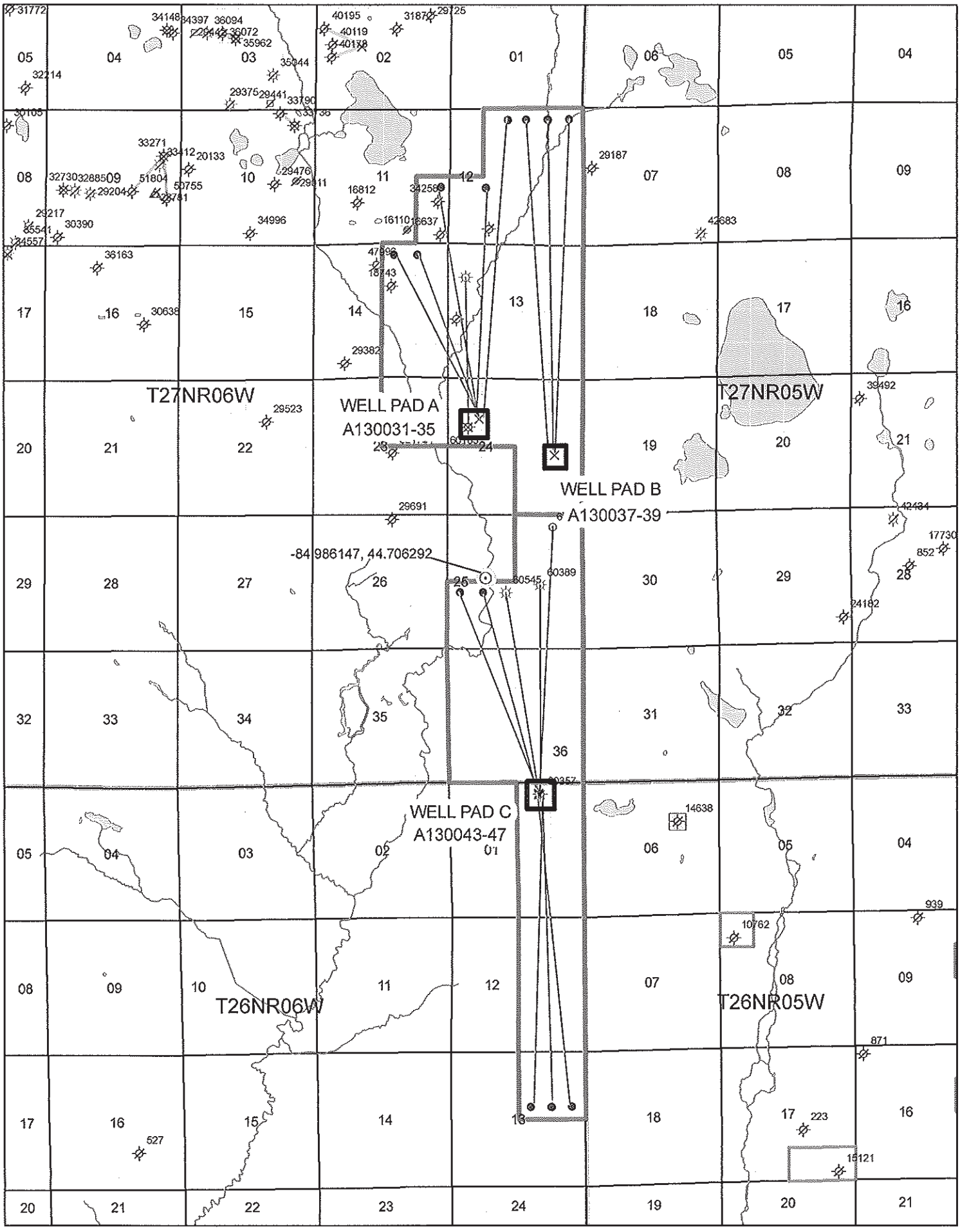ENCANA EXCELSIOR AND OLIVER APPLICATIONS