OIL AND GAS WELL DRILLING PERMIT
BIOLOGICAL SURVEY GUIDELINES

Solano County
Department of Resource Management

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WHEN REQUIRED:

Pursuant to the County regulations governing oil and gas wells (Section 28-50(5)(c) Solano County Zoning Regulations), drilling operations shall be confined to as small an area as practical and shall not cause irreversible damage to unique vegetation or fish and wildlife. Where a reasonable possibility exists, to the discretion of Planning Division staff, that the operation may impact unique vegetation, fish or wildlife, a biological survey will be required. Biological surveys must be prepared by qualified professionals with expertise in the evaluation of special status species and habitat known to potentially occur on the project site. Special status species are those that are listed as threatened, endangered, or as candidates to listing by the Federal or State government or as species of special concern by the California Department of Fish and Game, or as extinct, or rare and endangered by the California Native Plant Society. Contractors shall be commissioned at the sole expense of the applicant. Surveys submitted will be reviewed by Planning Division staff for adequacy prior to the issuance of a permit.

MINIMUM REQUIRED CONTENTS:

Summary of Findings:
Briefly summarize the results of the survey, describe special status plant and animal species present, impacts anticipated, if any, and any feasible measures to reduce, eliminate or avoid likely impacts.

Introduction:
Briefly describe the proposed project including all improvements which are proposed such as roads, pipelines and drilling pads. Additionally, describe natural physical characteristics of the property and in the immediate vicinity, and other land uses on the property and in the vicinity.

Methods and Survey Limitations:
Describe methods and materials used in the survey, the conditions during the survey and the date the survey was taken. Disclose limitations, if any, of the survey methods and how those limitations are overcome. If existing biological records or research papers are used to overcome limitations of the survey, clearly cite sources of information. The survey area shall be determined by the consultant and shall be predicated upon the specific characteristics of the site.

Results:
The survey report shall contain a discussion of observed special status species found in the project vicinity, the special status species which would likely inhabit the project site, and their habitat requirements. If species are expected to occur at the project site and are not found, discuss the reasons why they were not observed (i.e., soil type, seasons etc.). Lists of species present or suspected to be present should be placed at the end of the report. For each species, indicate the number of individuals observed on or immediately off site (the total population thought to be present), their exact status and their exact location(s) on a map. For each species observed, a technical report should be sent to the California Natural Diversity Data base, CDFG Planning Branch, 1416 Ninth St., RM. 1225, Sacramento, CA 95814.(Local information is available in the Planning Division

Environmental Resources File and through the California Natural Diversity Data Base). Identify the date and time the survey was taken.

Anticipated Impacts:
Identify impacts that are likely to result from project implementation and discuss and evaluate any significant indirect impacts anticipated on and off site as a result of project implementation. Indicate quantitatively, the anticipated loss of special status plant and animal species. In addition, if the proposed project would disrupt the integrity or continuity of an important habitat, this should be addressed.

Mitigation Measures:
Discuss any feasible mitigation measures which would reduce anticipated significant impacts to levels of insignificance. Proposed mitigation measures shall include at least one reduced or modified project alternative which must be communicated on a map of the project site. The environmentally superior mitigation measure shall be clearly indicated.

Other:
Identify names and telephone numbers of professionals that prepared the survey, the client, and the project name.