JURISDICTION _____

APPLICANT _____

PERMIT _____

PARISH _____

ANALYST _____

DATE _____

LOUISIANA GEOLOGICAL SURVEY

Louisiana State University

GEOLOGIC REVIEW MEETING FORM

Office of Coastal Management

VERSION 2024-1

INTRODUCTION TO GEOLOGIC REVIEW

ARRANGING GEOLOGIC REVIEW MEETINGS

Geologic Review meetings are arranged through the lead permitting agency involved with your permit application. The lead agencies are the Office of Coastal Management (OCM) for the state and U.S. Army Corps of Engineers (COE) for the federal government. You should contact your permit analyst at the lead agency to arrange the meeting. If you do not know who this is, contact Christine Charrier at OCM.

PREAPPLICATION MEETINGS

Preapplication meetings are encouraged and can be set up with the lead agency before submitting a formal application for permit. The applicant should stress the need for members of the commenting agencies, (LDEQ, LDWF, USFWS, etc.) to be present for all meetings concerning a proposed project.

INFORMATION

Attached is a document describing the information needed for Geologic Review meeting. Applicants occasionally fail to bring sufficient information and as a result the processing of their permit application is delayed. Please bring everything listed if possible. Be advised that items you consider unimportant may be important to the various agencies involved.

PERSONNEL

The only applicant personnel required for the Geologic Review meeting are the appropriate **geologist** and the appropriate **petroleum engineer** who are handling the prospect. If there is a regulatory or environmental affairs coordinator or consultant involved in the permit, then they should also be present. Other personnel, while welcome, are not essential to the meeting.

GEOLOGIC REVIEW PROCEDURE

The following information is generally needed for a Geologic Review meeting, although additional unlisted items may be required depending on the nature of each individual application. With the exception of public information, no maps or data will be retained, and the confidentiality of all items examined will be maintained.

GENERAL INFORMATION

Name and location of the well, accurate location plats (normally these are the plats sent to the appropriate agencies before scheduling the meeting); and the nature of the application (i.e. dredging, filling, directional well, etc.); dimensions of any dredging or filling; name of the applicant; names of the operator if not the applicant; names and locations of any other applicant wetland permits in the area.

LEASE AND REGULATORY INFORMATION

Lease maps, lease information, spacing and unitization constraints, contractual obligations, and any physical constraints (pipelines, house, ditches, etc.) that may affect the location.

GEOLOGIC INFORMATION

Number of significant objectives, depth and expected contents, structure maps of all significant horizons, well logs of nearby wells, cross-sections relevant to the area, fault cuts, fault plane maps, isopach maps, all significant seismic lines (with interpretations), gas/oil/water contacts, shows and production of nearby wells in the same producing horizon.

ENGINEERING INFORMATION

TVD of the well, proposed mud program, proposed casing program, presence of depleted zones, their depths and pressure readings, presence of over-pressured zones and the depth it begins, FPG and FFG plots of nearby wells, well histories of wells in the area, directional history in the area, documentation to back up the presented well histories (i.e. mud recaps, drilling time, bit records, etc.)

FUTURE PLANS

The best estimate of the applicant's future plans in the event the well is a success or a failure.

ECONOMIC DATA

While not usually needed detailed AFE's for the well as proposed and as a directional prospect may be required. If needed the applicant will be requested to provide them at a later date.

MEETING FORMAT

The meeting will be held at the La Salle Building in Baton Rouge, Louisiana. The meeting will be chaired by the Louisiana Geological Survey (LGS). Staff from LGS and the Office of Mineral Resources will be used to evaluate the data presented. A fixed format in which questions will be asked in a series paralleling the listings above will be followed. After the information has been obtained the state and federal agencies will meet briefly to determine a joint recommendation after which the applicant will be advised of the results of the review.

DATA STANDARDS

Please ensure that all data, maps, cross-sections, and charts are legible, clearly marked, and interpreted where appropriate. The proposed location should be clearly marked on each map, cross-section, and seismic line and each map should have its scale and orientation shown. If possible, all plats and maps should be the same scale.

SECTION I

GENERAL INFORMATION

MEETING INFORMATION:

DATE AND TIME OF MEETING: _____

____ OCM/COE (NOD) JURISDICTION

____ OCM JURISDICTION ONLY

____ COE (NOD) JURISDICTION ONLY

____ OTHER

EXPLANATION: _____

OCM PERMIT NUMBER: _____

OCM ANALYST: _____

COE PERMIT NUMBER: _____

COE ANALYST: _____

WELL INFORMATION:

PARISH: _____

_____ SEE PLATS

TOWNSHIP _____ RANGE _____ SECTION _____

X _____ Y _____

LATITUDE _____ LONGITUDE _____

WELL IDENTIFICATION DATA:

WELL NUMBER, LANDOWNER(S): _____

UNIT: _____

SL: _____

PERMIT REQUEST DATA:

____ DREDGING (NON-MINOR)

CANAL LENGTH _____

CANAL WIDTH _____

SLIP LENGTH _____

SLIP WIDTH _____

KEYWAY DIMENSIONS _____ X _____

SWEEPING FOOTAGE _____

SEE PLATS _____

____ FILLING (NON-MINOR)

RING LEVEE DIMENSIONS ____ X ____

ROAD WIDTH _____

CROWN WIDTH _____

SEE PLATS _____

MEETING TYPE

____ PRE-APPLICATION

____ REGULAR

____ SUPPLEMENTAL

____ UNUSUAL

EXPLANATION _____

WELL TYPE PROPOSED

____ VERTICAL

____ DIRECTIONAL

SECTION II

GENERAL INPUT

ORGANIZATION APPLYING

_____

_____

PARTNERS INVOLVED (>10%) AT THIS TIME

_____

_____

OTHER APPLICANT OR ASSOCIATED WETLANDS PERMITS IN AREA

_____

SUMMARY OF PERMIT _____

_____

_____

____ ENVIRONMENTALLY SENSITIVE AREA

EXPLANATION _____

____ ADMINISTRATIVELY SENSITIVE AREA

EXPLANATION _____

_____ MANAGEMENT PLAN IN EFFECT

EXPLANATION _____

OUTSIDE (NON-OCM, NON-COE, NON-APPLICATION) INPUT

SOURCE	INPUT
LGS	
LDW&F	
LDEQ	
USF&WS	
NMFX	
OTHER	
OTHER	

SECTION III

LEASE AND PHYSICAL INFORMATION

LEASE MAP: P NP PI NA

_____ LEASE BOUNDARY CONTRAINTS

EXPLANATION _____

_____ LEASE EXPIRATION/DELAY RENTALS CONTRAINTS

EXPLANATION _____

_____ OTHER LEASE RESTRICTIONS

EXPLANATION _____

_____ UNITIZATION/SPACING CONTRAINTS

EXPLANATION _____

_____

_____ OTHER/MISCELLANEOUS CONTRAINTS

EXPLANATION _____

_____

_____

PHYSICAL CONTRAINTS ON LOCATION

_____ PIPELINES

_____ FLOWLINES

_____ DITCHES

_____ OTHER

EXPLANATION _____

_____

_____

SECTION IV

GEOLOGIC INFORMATION

NUMBER OF OBJECTIVES: _____

OBJECTIVE INFORMATION TABLE

OBJECTIVE	TRAP TYPE	RELATIVE DEPTH	EXP CONTENTS

GEOLOGICAL DATA PRESENTED

DATA PRESENTED	PRESENTED	PRESENTED INCOMPLETE	NOT PRESENTED	NOT APPLICABLE
WELL LOGS OF NEARBY WELLS				
STRUCTURAL MAPS				
FAULT PLANE MAPS				
FAULT CUTS				
CROSS SECTIONS				
ISOPACH/POROSITY MAPS				
OTHER				

GEOLOGIC CONSTRAINTS

_____ FAULTING

_____ STACKED OBJECTIVES

_____ OTHER

_____

SECTION V

ENGINEERING INFORMATION

DIRECTIONAL WELL PROPOSED? YES NO

PROPOSED TD OF WELL _____

PROPOSED TVD OF WELL _____ (IF DIFFERENT)

PROPOSED MUD WEIGHT AT TD _____#

DEPLETED OR OVERPRESSURED BEDS YES NO

ENGINEERING DATA TABLE

DATA PRESENTED	PRESENTED	PRESENTED INCOMPLETE	NOT PRESENTED	NOT APPLICABLE
PLOT OF FPG/FFG VERSUS DEPTH				
PROPOSED MUD PROGRAM				
MUD RECAPS				
BIT RECORDS				
PROPOSED CASING AND CEMENTING PROGRAM				
OTHER				
OTHER				

CASING/LINER

SURFACE: _____

INTERMEDIATE: _____

SECOND INTERMEDIATE: _____

LINER: _____

MUDLOGGER: YES NO FROM A DEPTH OF _____

DIRECTIONAL WELLS IN AREA:

_____

_____

_____

_____ HISTORY OF WELL TROUBLE IN THE AREA

EXPLANATION _____

_____

TECHNICAL FEASIBILITY OF DIRECTIONAL DRILLING:

FEASIBLE UNFEASIBLE INSUFFICIENT DATA

ENGINEERING CONSTRAINTS ON DIRECTIONAL DRILLING

_____

_____

RADIUS FEASIBLE TO DIRECTINALLY DRILL _____

DIRECTIONAL DRILLING PLANS:

_____

_____

_____

_____

_____

SECTION VI

APPLICANT FUTURE PLANS

IF THIS WELL IS PERMITTED AS REQUESTED AND IS A SUCCESS, WHAT ARE THE APPLICANT'S PLANS FOR THE AREA, INCLUDING PRODUCTION PLANS?

_____

_____

_____

_____

_____

_____

_____

_____

IF THE WELL IS TREATED AS ABOVE AND IS NOT SUCCESSFUL, WHAT ARE THE APPLICANT'S PLANS FOR THE AREA?

_____

_____

_____

_____

_____

_____

_____

_____

SECTION VII

ECONOMIC INFORMATION (OPTIONAL)

DRY HOLE COST OF VERTICAL WELL (LESS CONTINGENCY): _____

DRY HOLE COST OF DIRECTIONAL WELL (LESS CONTINGENCY): _____

DELTA DHC ($): _____

DELTA DHC (%): _____

ESTIMATED ACCESS COST (VERTICAL WELL): _____

ESTIMATED ACCESS COST (DIRECTIONAL WELL): _____

ESTIMATED MITIGATION COSTS (VERTICAL WELL): _____

ESTIMATED MITIGATION COSTS (DIRECTIONAL WELL): _____

ESTIMATED TOTAL COSTS (VERTICAL WELL): _____

ESTIMATED TOTAL COSTS (DIRECTIONAL WELL): _____

DELTA TOTAL WELL COSTS ($): _____

DELTA TOTAL WELL COSTS (%): _____

ECONOMIC FEASIBILITY OF DIRECTIONAL DRILLING:

_____ FEASIBLE

_____ NOT FEASIBLE

_____ INSUFFICIENT DATA