PRESENTATION

- FIELD DEVELOPMENT CHALLENGES
- MARGINAL FIELD
- FIELD IN A REMOTE AREA
- FIELD WITH HEAVY CRUDE

- PILOT PRODUCTION

- FIELD DEVELOPMENT FLOATER

- PRODUCTION RISER APPLICATIONS
FIELD DEVELOPMENT CHALLENGES

- NOT COMMERCIALLY Viable WITH CONVENTIONAL METHODS
- LACK OF NEARBY INFRASTRUCTURE
- SMALL PRODUCTION
- DEEP WATERS
- UNKNOWN RESERVOIR CHARACTERISTICS - GAS FLARING
PILOT PRODUCTION SYSTEMS

• REDUCE TIME FROM DISCOVERY TO FIRST OIL

• EARLY CASH FLOW FOR FIELD DEVELOPMENT

• DEVELOPMENT OF EXTENDED WELL TEST AND PILOT PRODUCTION FLOATERS (FPSO’s)
FIELD DEVELOPMENT FLOATER (1)

MUST BE LOW COST TO BUILD

- NEWBUILD
- CONVERSION OF AN EXISTING HULL
- SIMPLE – RELIABLE
FIELD DEVELOPMENT FLOATER (2)

OPERATIONALLY COST EFFECTIVE

- MARGINAL FIELDS
- FIELDS IN REMOTE OFFSHORE AREAS
- FIELDS WITH HEAVY CRUDE
FIELD DEVELOPMENT FLOATER (3)

**BASIC CONCEPT**

- PRODUCTION 10K – 30K BPD
- CRUDE STORAGE 100K – 600K BBLs
- CONVENTIONAL MOORING SYSTEM
- PREPARED FOR DYNAMIC POSITIONING
FIELD DEVELOPMENT FLOATER (4)

BASIC CONCEPT

- RIG FLOOR AND SUBSTRUCTURES
- LARGE CELLAR DECK AND MOONPOOL FOR THE HANDLING OF RISERS AND SUBSEA EQUIPMENT – WELL INTERVENTION / WORKOVER
PRODUCTION RISER APPLICATIONS

RISER HANDLING CAPABILITIES:

• FLEXIBLE RISER
• RIGID RISER (TENSIONER SUPPORTED)
• SELF (FREE) STANDING RISER (HYBRID)
RIGID PRODUCTION RISER

- DRILL PIPE
- TENSIONER SUPPORTED
- FIELD PROVEN
- FLOW 25K BPD
SELF (FREE) STANDING RISER (HYBRID)

• FIELD TESTED IN 2006

• BUOYANCY DEVICE
  30 – 60 METERS BELOW SURFACE
CONCLUSIONS

• LOW COST FIELD DEVELOPMENT
• SIMPLE AND RELIABLE EQUIPMENT
• COMBINATION OF PROVEN CONCEPTS
• SUITABLE FOR SOUTH EAST ASIA
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