

March 31 - 2 April 2009
IMPACT Exhibition Centre
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FIELD DEVELOPMENT FLOATER

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FDF TECHNOLOGY



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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 COMMERCIALY VIABLE WITH CONVENTIONAL METHODS
- LACK OF NEARBY INFRASTRUCTURE
- SMALL PRODUCTION
- DEEP WATERS
- UNKNOWN RESERVOIR CHARACTERISTICS - GAS FLARING

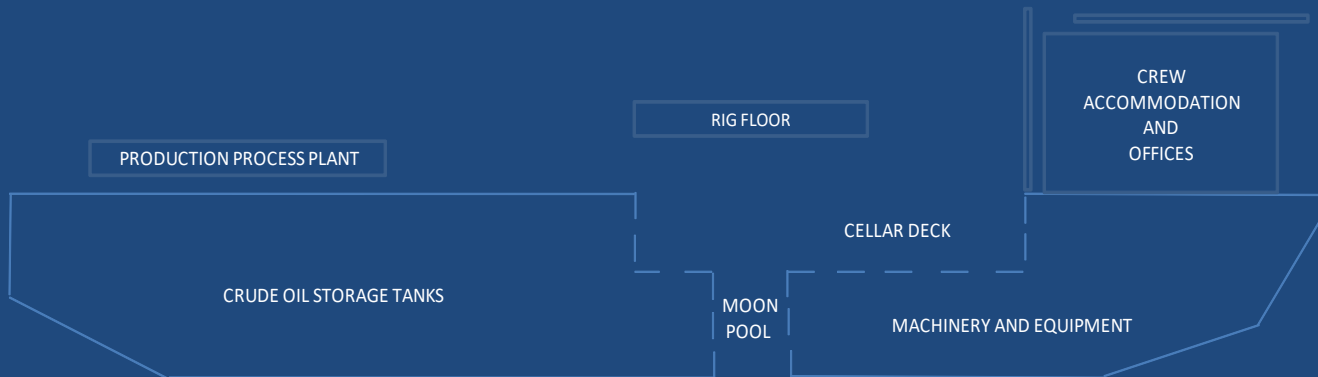


PILOT PRODUCTION SYSTEMS

- 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)

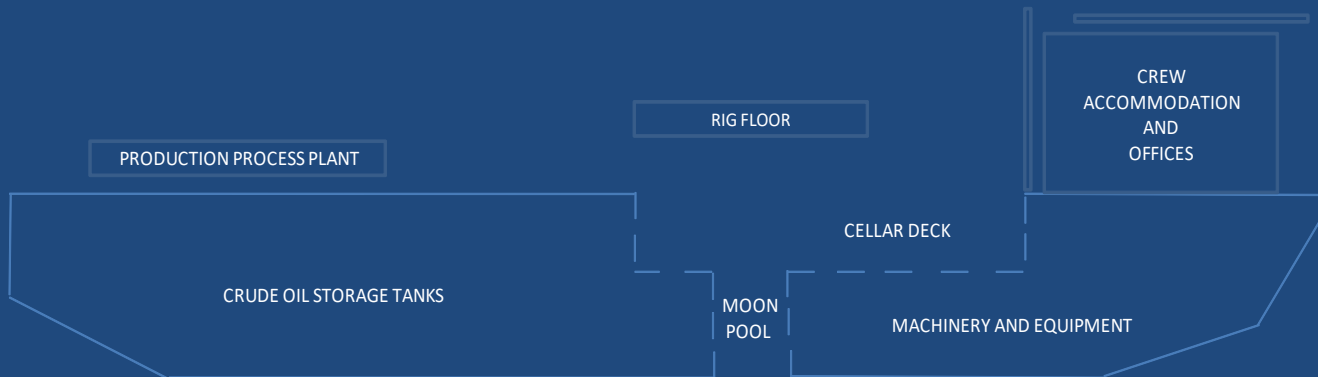


MUST BE LOW COST TO BUILD

- NEWBUILD
- CONVERSION OF AN EXISTING HULL
- SIMPLE – RELIABLE



FIELD DEVELOPMENT FLOATER (2)



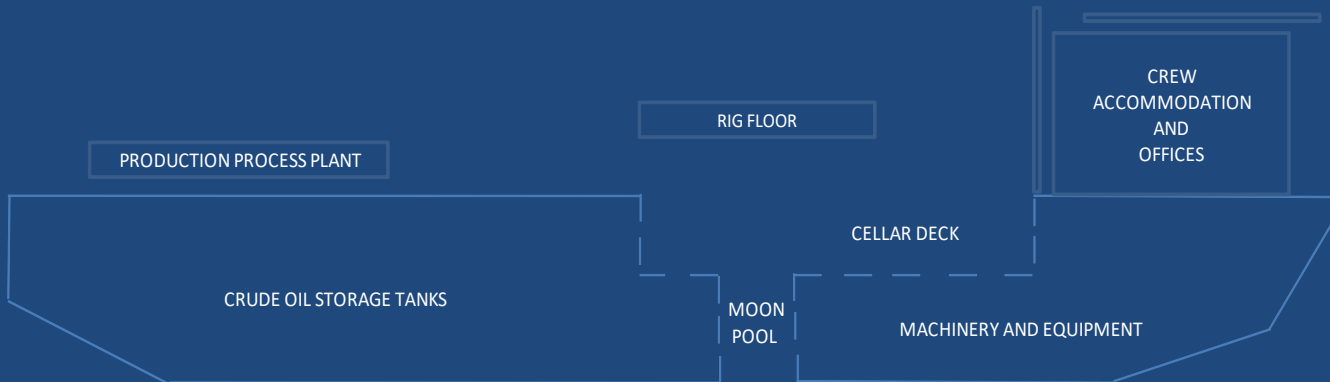
OPERATIONALLY COST EFFECTIVE

- MARGINAL FIELDS
- FIELDS IN REMOTE OFFSHORE AREAS
- FIELDS WITH HEAVY CRUDE



FIELD DEVELOPMENT FLOATER (3)

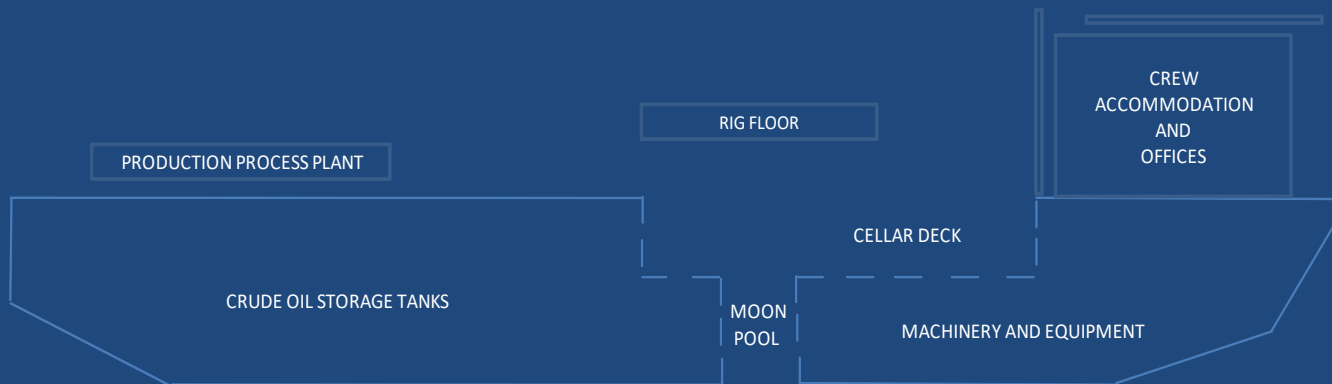
BASIC CONCEPT



- 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)



BOP or Production Tree
Buoyancy Device
Keel joint



Stress Joint
Wellhead

- 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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