



# ***Leistritz***

## **MULTIPHASE PRODUCTION SYSTEMS IN THE GULF OF MEXICO'S KU-MALOOB-ZAAP FIELD**



### **OBJECTIVE:**

Increase production from three platforms to an FPSO via Twin Screw Multiphase Booster Pumps drawing down the flowing well head pressure by 170 psig.

## PLATFORM REQUIREMENTS

### Platform A

Gas	79 mmscfpd
Liquids	89 mbpd
Total Actual Flow	2,912,652 bpde
Differential Pressure	174 psi
GVF	97%
No. of Pumps	6
Motor Rating	2,500 Hp

### Platform B

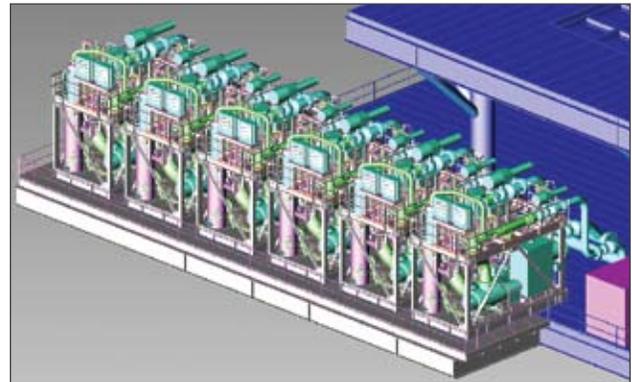
Gas	59 mmscfpd
Liquids	56 mbpd
Total Actual Flow	2,174,803 bpde
Differential Pressure	130 psi
GVF	97%
No. of Pumps	5
Motor Rating	2,000 Hp

### Platform C

Gas	63 mmscfpd
Liquids	74 mbpd
Total Actual Flow	2,325,773 bpde
Differential Pressure	174 psi
GVF	97%
No. of Pumps	5
Motor Rating	2,500 Hp



Leistritz L4MK 410-200 multiphase production system



Multiphase production system

## SYSTEM REQUIREMENTS

Leistritz Model:	L4MK 410-200
No. of pumps:	16
Capacity:	522,000 bpde per pump
Discharge pressure:	300 psig
Seal Oil Systems per API Plan 54/11	
Lube Oil Systems per API 614	



Pump casing with liner



Pump rotors

### Equipment Supplied by Cameron Process Systems includes:

- Complete Pump Modules, include: fabricated baseplates, decking and coupling, liquid knock-out with heating, instrumentation, isolation valves, suction strainer, suction and discharge pipe, PSV line, re-circulation lines, and pump and motor installation.
- E-buildings, include: VFDs, switchgear, PLC, HVAC, transformers, and fire and gas detection/suppression system.
- Design and engineering of suction and discharge headers with ESVs.

# Leistritz

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