PRO - OP
Facility Optimization
October 26, 2004
NEWFIELD
BALANCE  FOCUS  CONTROL
www.newfld.com
A Balanced Portfolio of Assets

...Didn’t Happen Overnight!

1997-03

CHINA

1989-98

T. ISLE

2000-02

NEW MEXICO

TEXAS

1997

U.M.

NORTH SEA

2001

2002-04

LOUISIANA

MALAYSIA

MALAYSIA

2004

UTAH

TEXAS

L. ISLE

MALAYSIA

2000-02

2001

1989-98

1997-03

CHINA

MALAYSIA

UTAH

TEXAS

L. ISLE

MALAYSIA

1989-98

1997-03

CHINA
**PRO - OP** – a systematic approach to increase production efficiencies and profitability through evaluating process components whereby methane emissions are reduced on a cost effective basis.
Pro – Op…….the big picture

Build in optimization on the front end

Drilling
Completion
Stimulation
Production
Work over

Modification / Repairs
Ongoing Facility Evaluations
Strategy:

- **New Designs** (platform, facility, production trains)
- **Modifications / Repairs**
- **Ongoing Facility Evaluation**
  - Cost effectively eliminate emission source
  - Cost effectively capture for sales
  - Flare (destruction)
Pro – Op

Oil Treating

Water Handling

OIL SURGE/STORAGE TANK

Sales Point

ENGINE

COMP

100 units

100 units

TEST HP LP FLASH CONTACTOR
Pro - Op Process -> Onshore

- High Bleed vs. Low Bleed
- PSV Integrity
- Separator Pressure?
- Separator Temperature?
- Flash Emissions
- Non-Condensables
- Fuel Efficiencies
- Circulation Rates
- Flash Separator
- Seals
- PSV Integrity
- To Comp
- HP
- LP
- HT
- OIL
- OIL
- ENGINE
- COMP
Attention to Details….Increases Profitability

NEW FACILITIES
- Develop Template
  - Onshore Facilities
  - Offshore Facilities

MODIFICATIONS / REPAIRS
- Evaluate
  - Each Device
  - Alternatives
  - Cost Efficiencies

ONGOING FACILITY EVALUATIONS
- Opportunities
  - Flash
  - Glycol Circulation Rates
  - Separator Optimization
  - Other Efficiencies