Sustainability and Energy Production

Presented by

Signal Hill Petroleum





What is Sustainability?

City Definition

"...striking a balance between economic growth, social responsibility and environmental well-being..."





What is Sustainability?

SHP Definition

"Sustainability is meeting today's needs without compromising the ability of future generations to meet their needs."





The process of Energy Production needs to be *stable*, *viable* and create *shared value* to be sustainable.





"Stability" occurs when the process is both *socially* and *environmentally responsible*.





"Viability" occurs when the process achieves stability and is economically feasible.





"Shared Value" is when there is *viability* and a balance between private and public economic benefits is achieved.





- Water recycling and reuse
- Clean burn technology for combustion equipment
- Energy efficiency
- Pipeline and Tank Preventive Maintenance Programs
- Successful Integration of Energy Production and Community Development





Water Recycle & Reuse

- Large quantities of water required to repressure reservoir
 - Enhances oil and gas recovery
 - Maintains production over a longer period
- Major facilities and pipelines constructed to gather, treat and re-inject water
 - Approximately 4 million gallons of water per day recycled







Clean burn technology for combustion equipment





On-site Electricity Generation









On-site Electricity Generation

 More efficient and cost effective electrical power

- "Cleanest" electricity available
 - 5X cleaner than utility natural gas generating plants





Clean Burn Diesel Engines

- EPA Tier 4 standard
- New technology significant emissions reduction
- SHP first in the world to use Tier 4 engines on oilfield equipment





Energy efficiency





Smart Well Drilling Program

- Produce less water save resources
- Smaller motors = less electricity
- Saves time, resources and money





Pump-Off Controllers



Pump-Off Controllers

- Increase production efficiency
- Saves electricity
- Reduces mechanical wear on equipment





Pipeline and Tank
Preventive Maintenance Programs





Facility Preventative Maintenance

- On-going major investment in pipeline and tank integrity testing and replacement
 - Integrity testing program exceeds regulatory standards
- Environmental safeguard zero discharge policy











Successful Integration of Energy Production and Community Development









Sustainability and Energy Production





