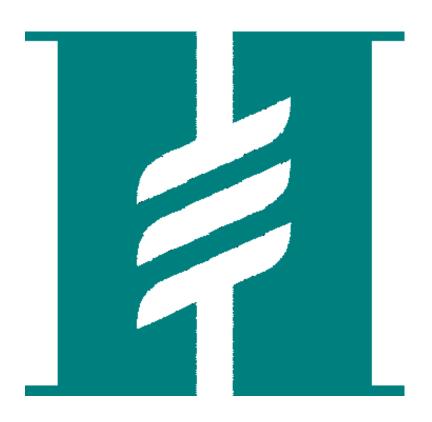
Hilc orp Alaska, LLC

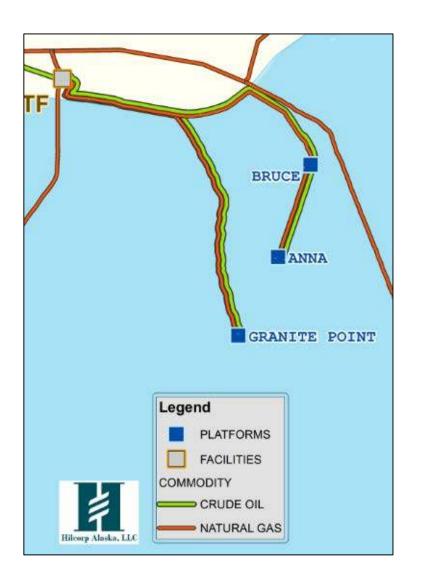


Cook Inlet Offshore Update

A Company Built on Energy



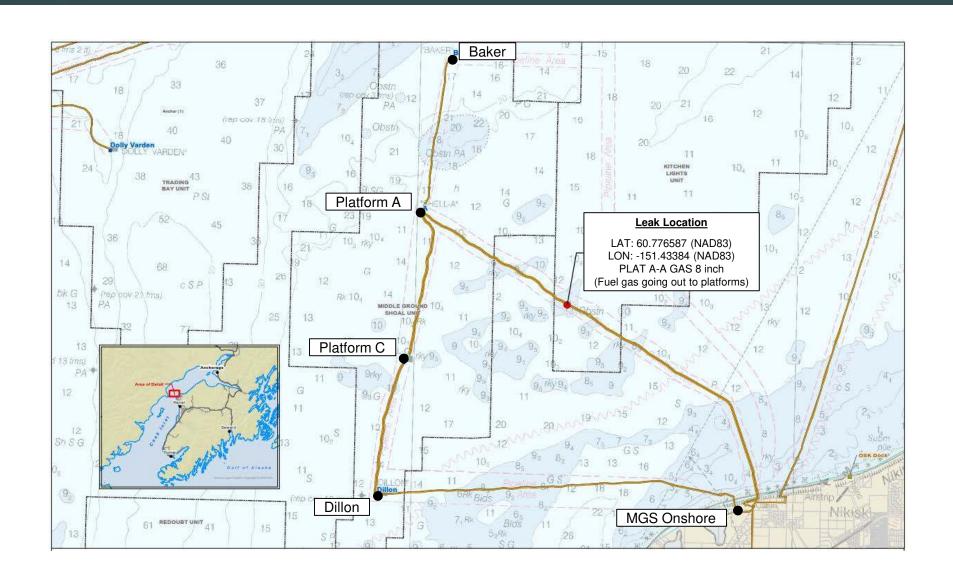
Anna Spill Summary



- Spill Estimated Volume< 3 Gallons
- Immediately shutdown oil shipping pumps and notified Hilcorp EH&S
- Flushed 495 bbl of oil from Anna to Bruce with seawater to eliminate spill potential
- Performed operational hydro test of pipeline at 340 PSI and had no leak
- Still investigating leak source



MGSA to Shore Pipeline



MGSA to Shore Pipe line

Pipeline Information:

- Pipeline was installed in 1965.
- Pipeline converted from oil to gas service in 2005.
- Residual oil exists in the line at an unknown volume.
- Gathered data in 2016 on pipelines after purchasing assets in late 2015. (thickness readings, spans, etc.)
- Leak location is on rock outcrop.

Repair Considerations:

- Heavy ice in the inlet presents unsafe diving conditions.
- Record number of days for freezing fog and limited fly conditions.
- Pigging the pipeline is not recommended before completing pipeline repair. Pig must be pumped with incompressible fluid which could release residual oil from the pipeline.

Reducing Potential Impact:

- Positive internal pressure keeps water out and prevents hydrocarbon from escaping to surface.
- Pipeline pressure reduced voluntarily to reduce leak rate.

MGSA to Shore Pipeline

February 7th, 2017:

- Leak confirmed
- Normal operating pressure ~200psi
- Flowrate ~2.34 MMscfd
- Leak rate estimated between 210-310 Mcfd

February 15th, 2017:

- Shutdown water flood processes on platforms
- Reduced pipeline pressure to ~160 psi
- Reduced flowrate to ~1.94 MMscfd

March 14th, 2017:

- Reduced pipeline pressure to ~150 psi
- Reduced flowrate to ~1.87 MMscfd

March 25th, 2017:

- Shutdown oil/gas processes on platforms
- Reduced pipeline pressure to ~65 psi
- Reduced flowrate to ~0.55 MMscfd
- Reduced estimated leak rate to 85 115 Mcf/day

Moving Forward

Monitoring:

- Monitor pressure and differential flow rates (ins and outs of the system).
- Continue environmental monitoring and sampling,

Pipeline Repair:

- Dive crews are ready to mobilize as soon as conditions permit.
- Temporary clamp installation (3-5 days).
- Permanent clamp installation (5-7 days).

Moving Forward:

- Pipeline modifications to allow pigging (2017).
- Smart Pigging of oil and gas pipelines from Platform A to MGS Onshore.



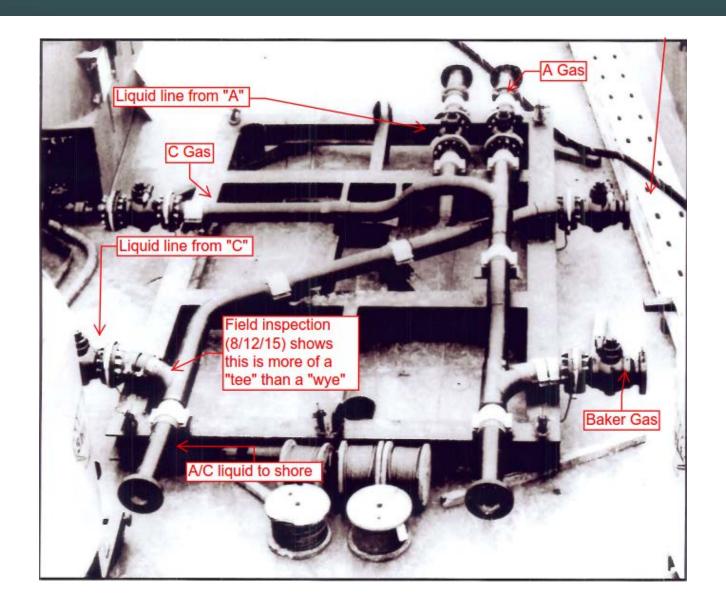
Smart-Pig: UTPiglet

- In-line uni-directional corrosion detection tool.
- Measures metal loss, dents, and GPS location.





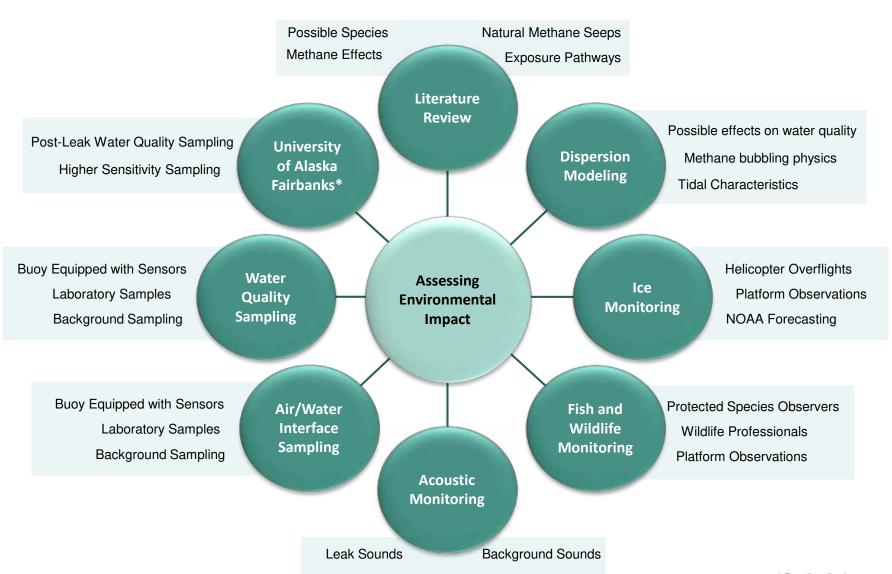
Sub-Sea Manifold





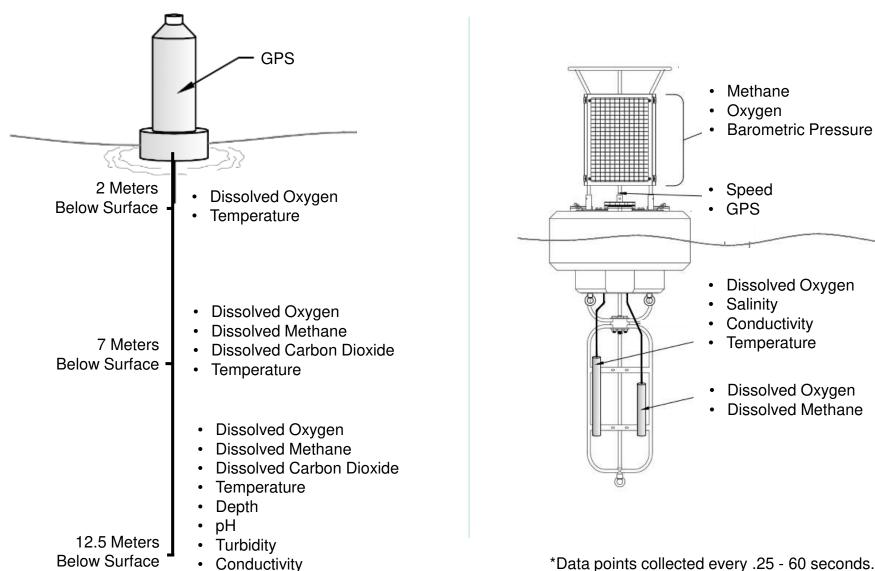


Environmental Monitoring





Environmental Monitoring



^{*}Data points collected every .25 - 60 seconds.



Environmental Monitoring











Integrity Team

