







Moving to above-ground Sx Sealing

SxScal 2000

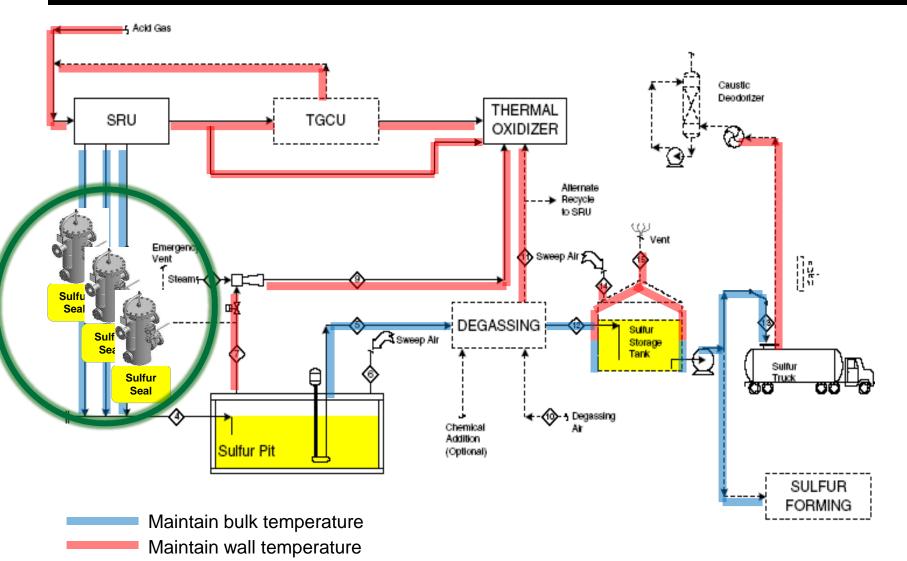
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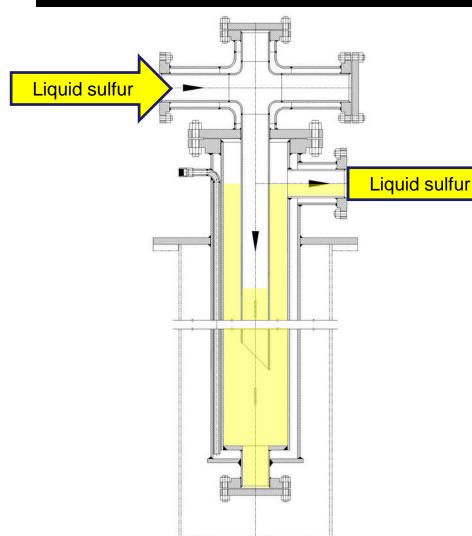


Sulfur Sealing in the SRU





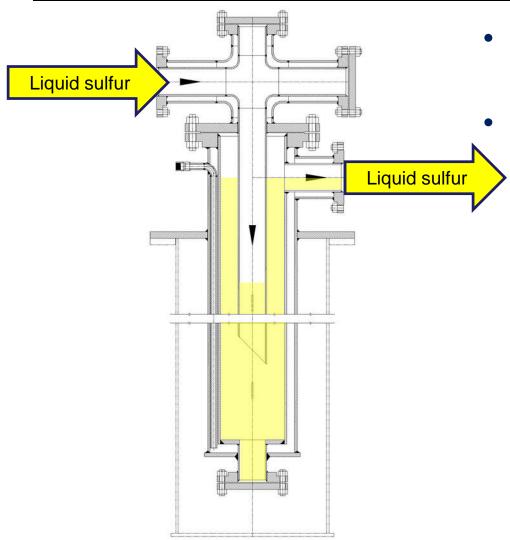
Traditional solution: Seal leg



- 20+ ft. below-grade sulfur seal
- Jacketed piping heating technology
- Sealing mechanism operates on hydrostatic pressure
- Liquid sulfur creates a vapor seal



Seal leg - Benefits

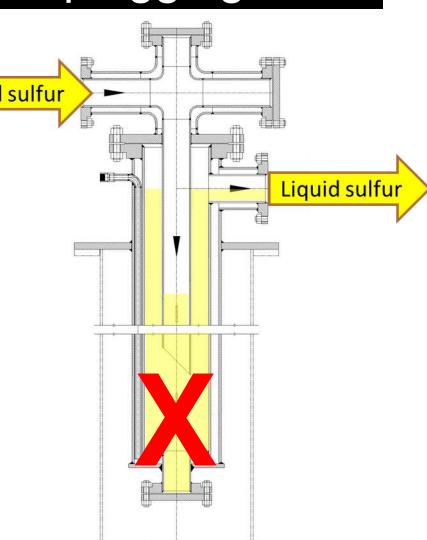


- Supplemental pressure relief
 - Long maintenance interval



Seal leg: Prone to plugging

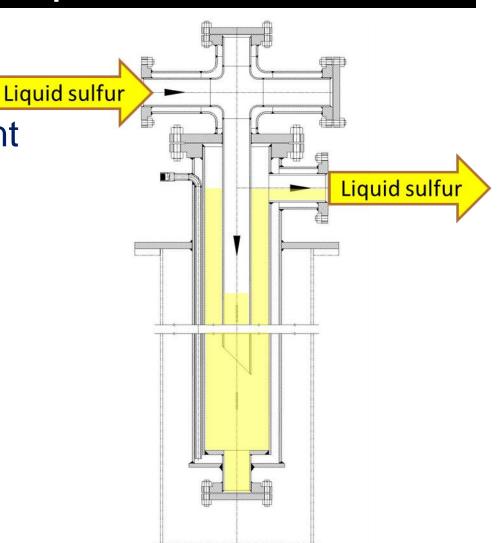
- Debris collects at the bottom of the seal leg Liquid sulfur
- Plugging can also occur at startup
- Costly maintenance





Seal leg: Other potential issues

- Ground-water intrusion
- What happens if plant wants to increase pressure?
- Operation status confirmed via look box
- Crane needed for installation and removal







Look Box Safety





Seal Leg Safety





Seal Leg Safety







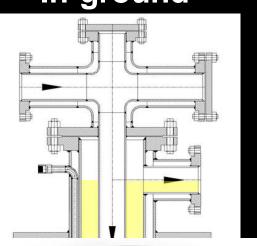
Safety Issues Seal Leg

- Exposure to H2S vapors
- Burns from liquid sulphur
- Mess created in SRU
- How Serious?
 - "This area is the most dangerous in the SRU"
 - 40 Year SRU Veteran, Brimstone Vail 2013



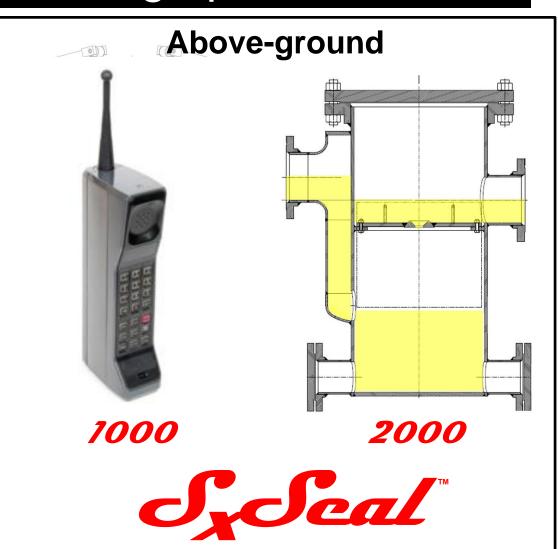
Sulfur sealing options

In-ground



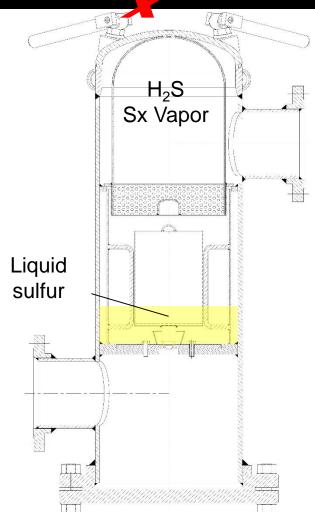




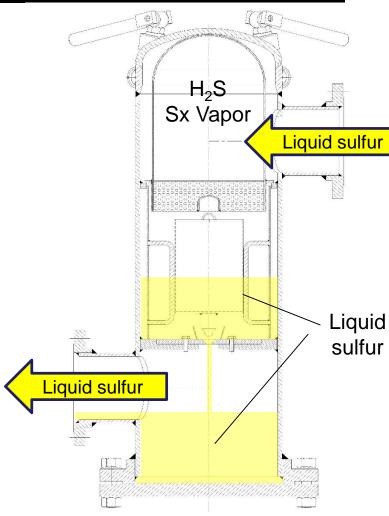




in operation



No-flow condition



Flowing condition



Requires regular maintenance

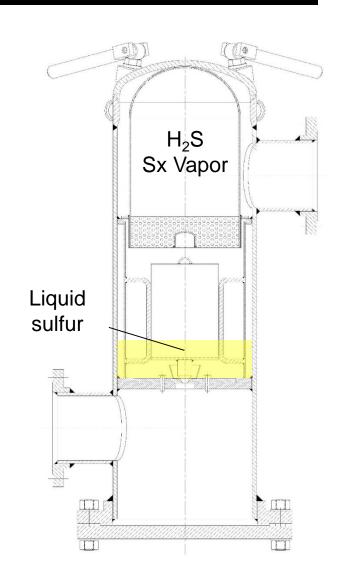
Need for fresh air suit?





Safety Issues SxSeal 1000

- Regular Maintenance
- Exposure to H2S vapors
- Exposure to liquid Sulphur
- No pressure relief path
 - Rupture disk
- Still need for lookbox





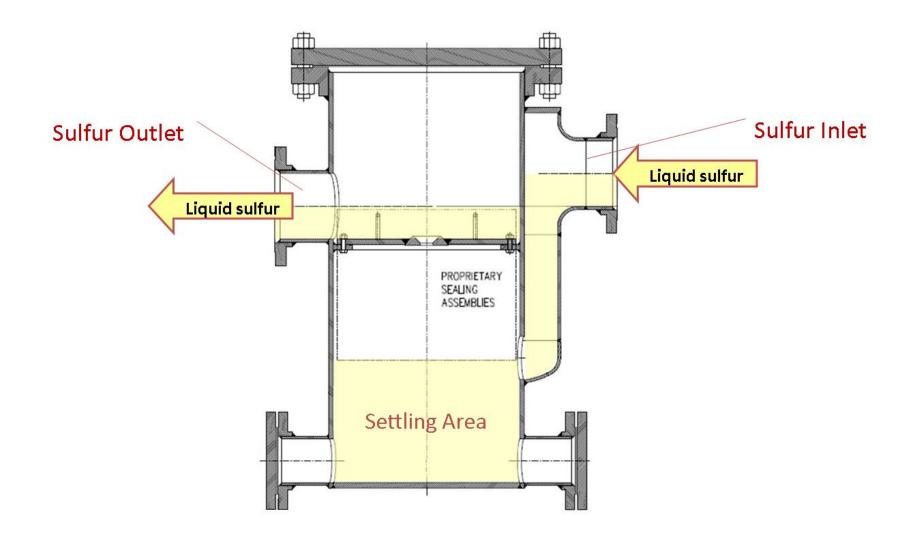
SxScal 2000



 Best of both worlds in sulfur sealing technology

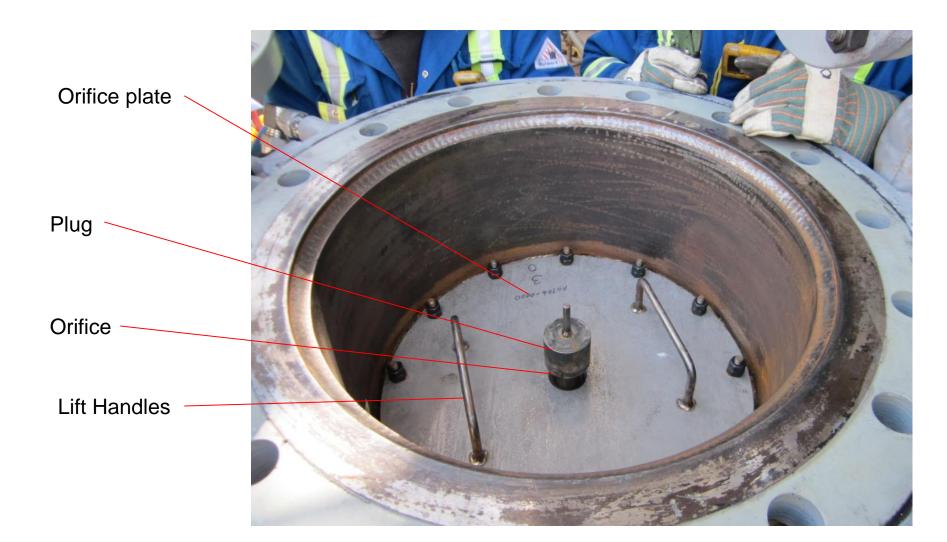


in operation





Construction and Components





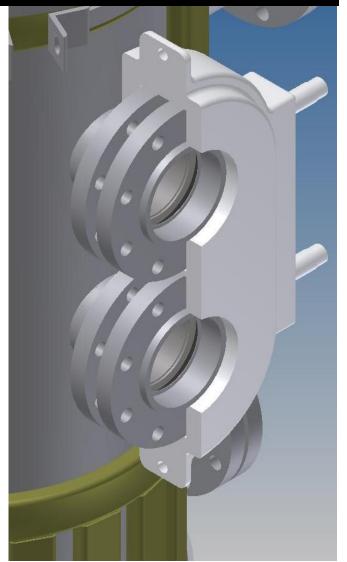
Operating status indicators





Operating status indicators







Low maintenance



80 79

C\$I

PROPRIETARY

INTERNALS

300

400

66

69

98

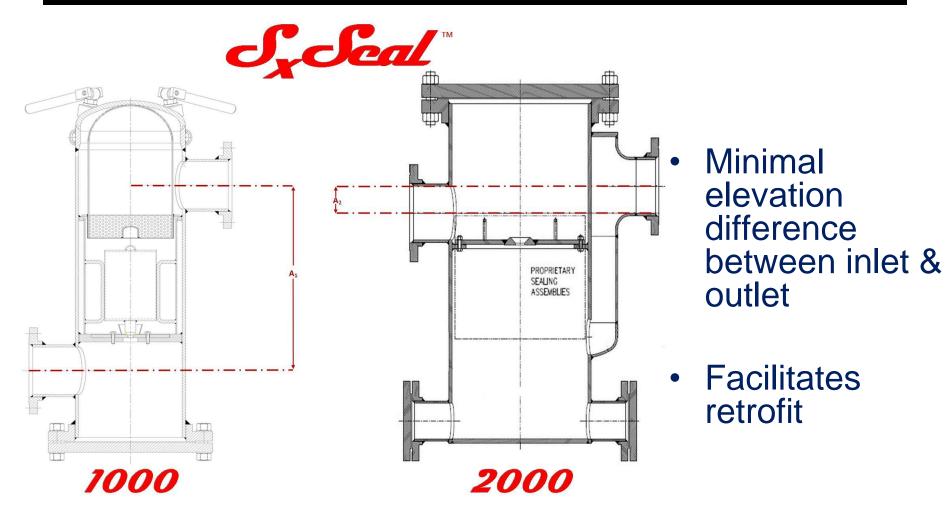
Debris can be cleared during turnaround.

Built-in clean out facilitates quick, easy maintenance.





Easy retrofit





Heated with ControTrace







Summary of benefits

SxScal 2000

- Safe, visual confirmation of performance – no look box required
- No filter maintenance
- Online cleaning possible
- No water intrusion, crosscontamination, or plugging
- Supplemental relief path





SxSeal 2000 – 200+ in operation





















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Video







Questions?

