GAS COLLECTION FROM BIOREACTOR LANDFILLS

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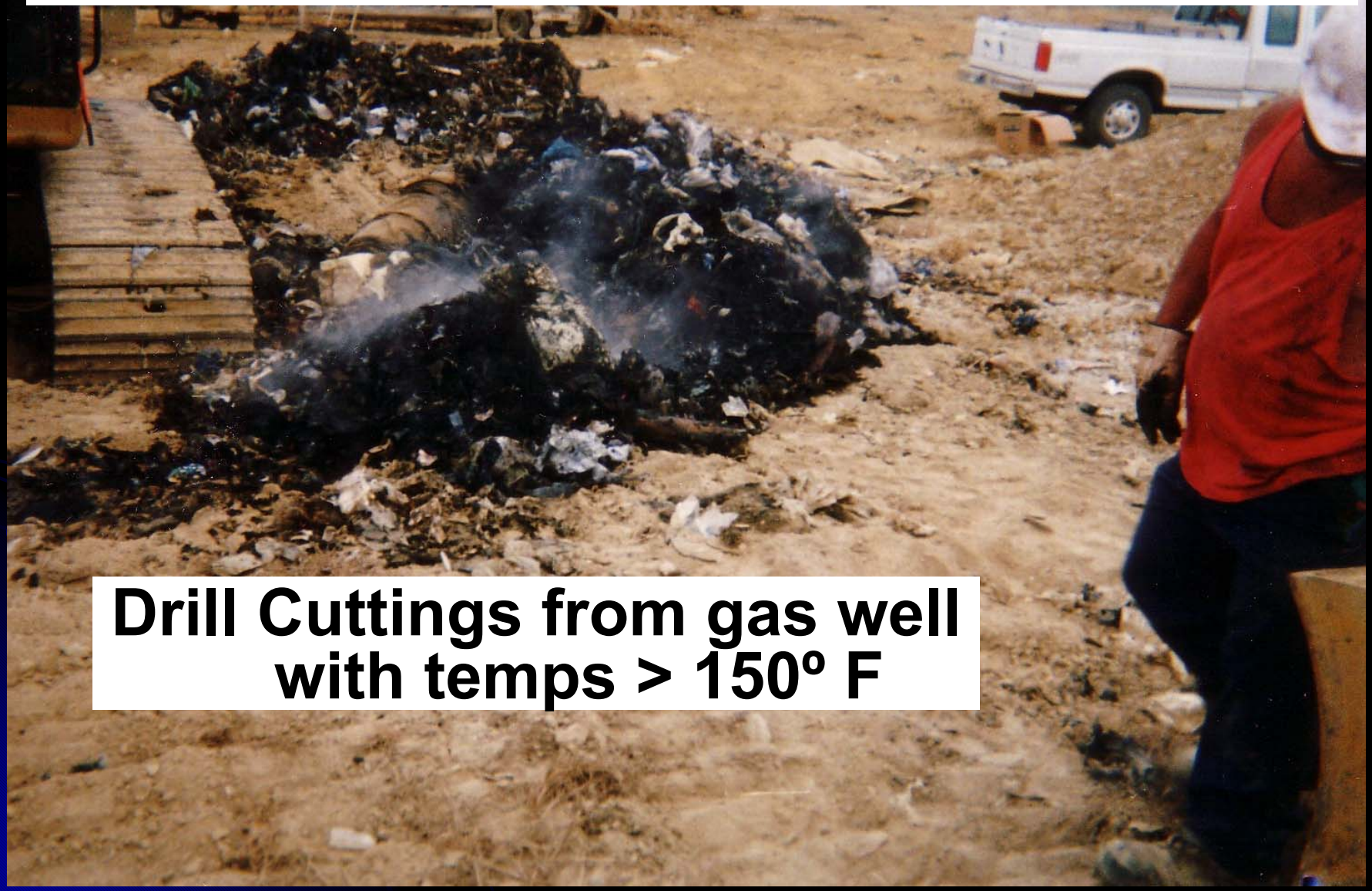
INTRODUCTION

- Gas Collection Challenges
- Gas Collection Options
- Regulatory Issues

GAS COLLECTION CHALLENGES

- Higher Gas Temperatures
- Higher Gas Production Rate (more gas more quickly)
- Higher Liquid Levels

HIGHER TEMPERATURES



Drill Cuttings from gas well with temps > 150º F

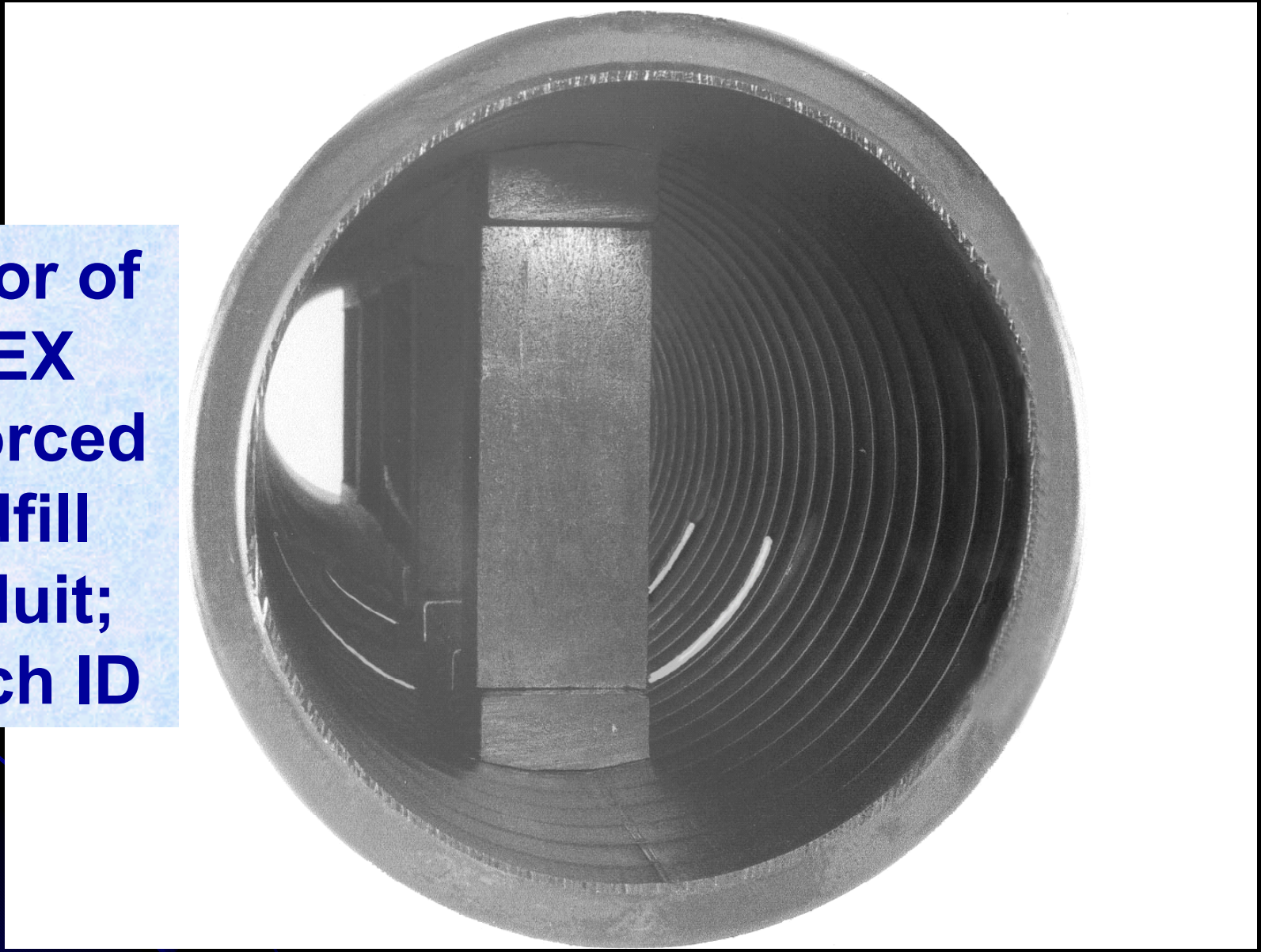
LEACHATE FILLED EXTRACTION TRENCH

GAS PRESSURE

GAS COLLECTION OPTIONS

- Vertical Wells
- Horizontal Collectors
- Interconnection with leachate system
- Common Conduit - HYEX® System

DUAL CONDUIT

- Common trench or piping for gas collection and liquids addition
- HYEX® System uses common carrier drain pipe for separate liquid injection and gas collection pipes.
- Demonstration at Ste. Sophie Landfill, Quebec and Fauquier County, VA

Interior of HYEX reinforced landfill conduit; 12 inch ID