

## Tackling Flaring: Learnings from leading Permian Operators

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#### Avitas Sky: Al Enabled Detection and Quantification



## Average Permian Basin natural gas flaring rate vs. top-tier operators interviewed



Source: Texas Railroad Commission (RRC) and New Mexico Energy, Minerals and Natural Resources Department (EMNRD). Public flared/vented and gas production data as of May 27, 2020. Note: Parsley Energy excludes Jagged Peak 2020 acquisition



# Findings: Three main themes facilitating best-in-class flaring performance





### Governance and environmental stewardship

- Sharing best practices with other producers
- Establishing cross-functional working committees dedicated to reducing routine flaring
- Communicating flaring targets and progress against targets in group settings
- Conducting internal learning and technical conferences
- Making flaring intensity data **transparent** and visible to employees
- Setting aggressive flare intensity goals
  - Intensity-based; Absolute reduction targets; Year over year improvements; Public statements on appropriate level of flaring intensity
- Tying **compensation metrics** to flaring performance goals



## <sup>2</sup> The best flaring practice is to not flare at all

- Strategic leadership decisions **requiring gas line be connected on all new wells**, eliminating the need to flare associated gas in the first place
  - Infrastructure takeaway must be in place before well comes online, coupled with the willingness to shut in wells if the infrastructure is not in
- Takeaway not a barrier but constraint, *i.e.*, a condition that needs to happen before a project is successful
- Planning, communication, commitment
- Strategic, long term partnerships with midstream
- Integrated business model (gathering, processing, compression)





- Non-routine flaring necessary in the case of operational upsets, high gas line pressures or for safety reasons
- Utilizing trained staff or contractors to **routinely and frequently check flares** was cited as one of the best practices in terms of both operational efficacy and cost efficiency; in addition
  - Equipment and processes in place to ensure flare tips are lit and functioning properly
  - Emissions monitors and controls incorporated into facilities design
- Pro-active, strategic approach to manage operational upsets
- Use of **vapor recovery units** on majority if not all, pad sites with the intent of achieving maximum emissions capture efficiency



#### Beneficial financial impact of leading practices

- Financial statement impact
  - Protect cash flows
- Risk mitigation
  - Long term investment stability; social license to operate
- Access to capital markets
  - Facilitate access to capital markets, lower bank risk profile, possibly drive a premium to multiples



#### Thank you!





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