



FRAC HITS

DEFINITION, SIGNIFICANCE,
MITIGATION, AND REASONING



DEFINITION

- ▶ WHEN A WELL BEING FRACED COMMUNICATES WITH ONE OR MORE NEARBY WELLS
 - ▶ Pressure communication
 - ▶ Receipt of frac fluids & materials
- ▶ AFFECTS VERTICAL & HZ WELLS

NEW

OLD





SIGNIFICANCE

- ▶ DEPENDS ON
 - ▶ Well spacing
 - ▶ Formation characteristics
 - ▶ Pressure depletion
 - ▶ Parent-child wells
- ▶ ABILITY TO JURASTICALLY REDUCE A WELL'S PRODUCTION
- ▶ DAMAGE TO EQUIPMENT

NEW

OLD





MITIGATION

▶ AVOIDANCE

- ▶ Providing notice
- ▶ Pull or modify equipment
- ▶ Shut-in
- ▶ Pressure up on well
- ▶ Install packers or plugs

NEW

OLD





MITIGATION

- ▶ AVOIDANCE
- ▶ DURING OFFSET FRAC
 - ▶ Monitor offset well pressures
 - ▶ Monitor offset well production
 - ▶ Monitor micro seismic or tracers

NEW

OLD





MITIGATION

- ▶ AVOIDANCE
- ▶ DURING OFFSET FRAC
- ▶ POST HIT
 - ▶ New artificial lift
 - ▶ Replace any damaged equipment
 - ▶ Water/sand production
 - ▶ Sand plugging/bridging
 - ▶ Cleanouts/acid

NEW

OLD



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