

Permian Basin Seismic Response Area Impacts

As of March, 2022. Contact B3 Insight for updates on Permian seismicity.

| Texas | Radius around 3.5 M+ Earthquake | SRA or SIR | Shallow Restrictions | | Deep Restrictions | | Action Type |
|---------------------------------|---------------------------------|------------|--|----------------------------|--|----------------------------|--|
| | | | Volume Affected | Restriction Effective Date | Volume Affected | Restriction Effective Date | |
| Northern Culberson-Reeves (NCR) | 4.5 km 9 km | SRA | 10,000 BPD Daily Max 20,000 BPD Daily Max | September, 2022 | Utilization Cut by 50%, 15,000 BPD Average Monthly Max | June, 2023 | OLRP for Participating Operators & Wells |
| | 15 km 25 km | SRA | Not Considered in OLRP | | | | |
| Gardendale | 4.5 km 9 km | SRA | 10,000 BPD | September, 2021 | No Injection Permitted | December, 2021 | Mandated* |
| | 15 km 25 km | SIR | No Restrictions | | No Restrictions | | |
| Stanton | 4.5 km 9 km | SRA | 10,000 BPD 20,000 BPD | TBD | 10,000 BPD 10,000 BPD | TBD | Proposed/OLRP in Progress |
| | 15 km 25 km | SIR | No Restrictions | | No Restrictions | | |

*Operators still have right to go to hearing with RRC before suspending activity

| Texas | Shallow or Deep | Radius | Seismic Monitoring Station Volume Additions | New Well Permits | 4.5 M+ Earthquake Response | Earthquake Response Effective Date | Reporting Requirements |
|---|-----------------|----------------------------------|---|--|--------------------------------------|------------------------------------|--|
| Northern Culberson-Reeves (NCR): Additional Operator Led Response Plan (OLRP) Details | Shallow | 4.5 km | 5,000 BPD Daily Max | No New Permits before January 2023 | Utilization Cut by 50% for 18 Months | December, 2022 | Operators of SWD wells within the NCR SRA will continue to report daily pressure and volume data on a monthly basis. |
| | | 9 km | 10,000 BPD Daily Max | New Well Permits Considered via Current RRC Guidelines | | | |
| | Deep | 4.5 km 9 km 15 km 25 km | No Additional Incentives | No New Permits | Shut-in for 24 Months from | From Date of Event | |

| New Mexico | Distance from Earthquake | Volume Affected | Restriction Effective Date | Reporting Requirements | Action Type |
|--------------------------------------|--------------------------|------------------------|-----------------------------|--|--|
| Two 2.5 M Earthquakes within 30 days | 10 Miles | No Restrictions | | Weekly reporting of daily injection volumes and pressures. Seismicity Response Protocol Information form required within 24 hours. Operator must monitor seismic activity. | OCD will consider an operator's voluntary implementation of the measures outlined when deciding whether to issue an order. |
| 3.0 M Earthquake | 0-3 Miles | 50% Rate Reduction | One Week from Date of Event | | |
| | 3-6 Miles | 25% Rate Reduction | | | |
| 3.5 M Earthquake | 0-3 Miles | No Injection Permitted | One Week from Date of Event | | |
| | 3-6 Miles | 50% Rate Reduction | | | |
| | 6-10 Miles | 25% Rate Reduction | | | |