

## News from the Oklahoma Corporation Commission

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### **Media Advisory**

#### Directive issued for disposal well shut-in and volume reductions in Crescent area

Because of recent earthquake activity in the Crescent area of Logan County, the Oklahoma Corporation Commission's Oil and Gas Conservation Division (OGCD) has issued a directive for specified oil and gas wastewater disposal wells to cease operations (shut-in) and for further reductions in other disposal well volumes.

The directive applies to those disposal wells in the prescribed area that inject into the Arbuckle formation. Researchers are in broad agreement that disposal into the Arbuckle formation in Oklahoma poses the largest potential risk for induced seismicity.

Under the directive, three currently operating disposal wells will cease operations ("shut-in"). One other disposal well will not be allowed to resume operation. These wells are within 0 to 3 miles of the earthquakes' location.

For Arbuckle disposal wells operating within 3 to 10 miles of the location, average daily volumes above 500 barrels per day will be reduced 20 percent. This is in addition to past directives that reduced volumes.

Based on the last 30 day average, this action is calculated to result in an overall further reduction in Arbuckle disposal of 2,848 barrels per day.

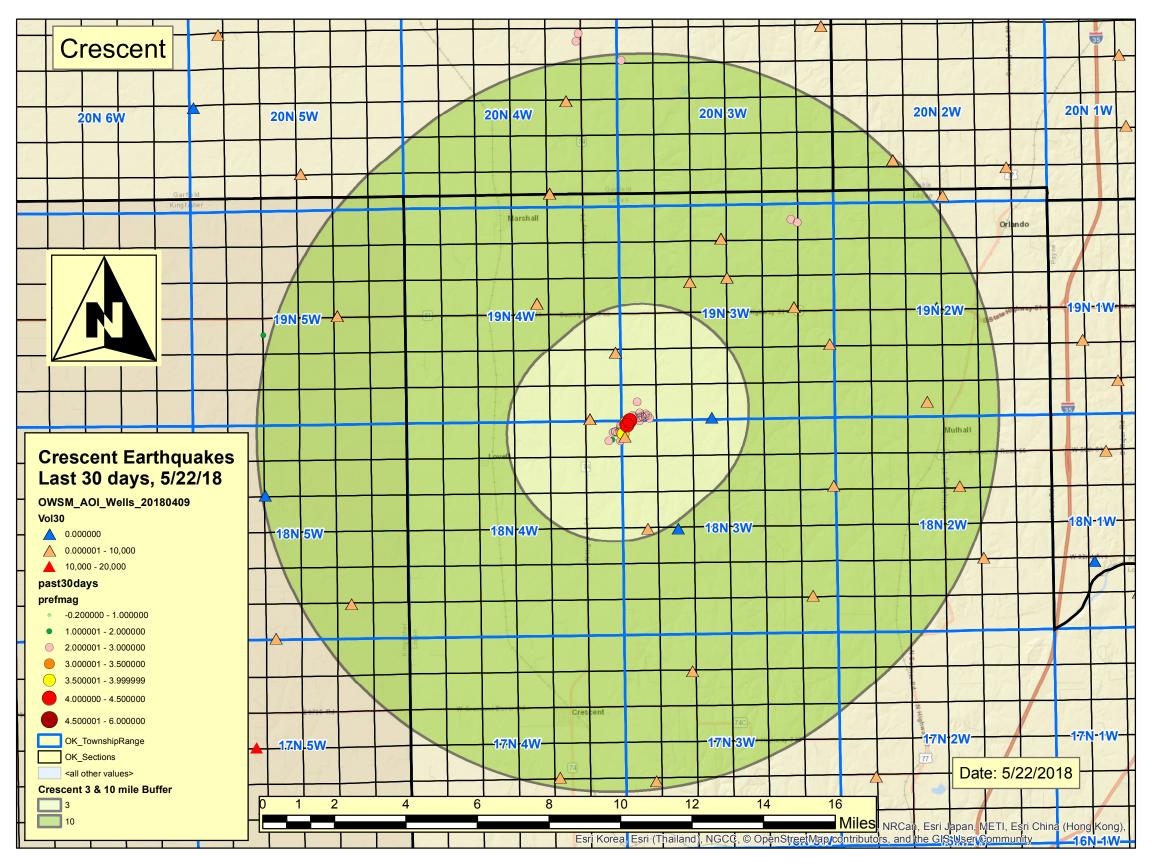
Further, operators of those wells which have reduced their depth to avoid injecting too close to the basement rock will be required to verify the well's bottom hole plug integrity.

The directive applies to 25 disposal wells in total, 20 of which have operated within the last 30 days.

- OCC-

All OCC advisories and releases are available at www.occeweb.com

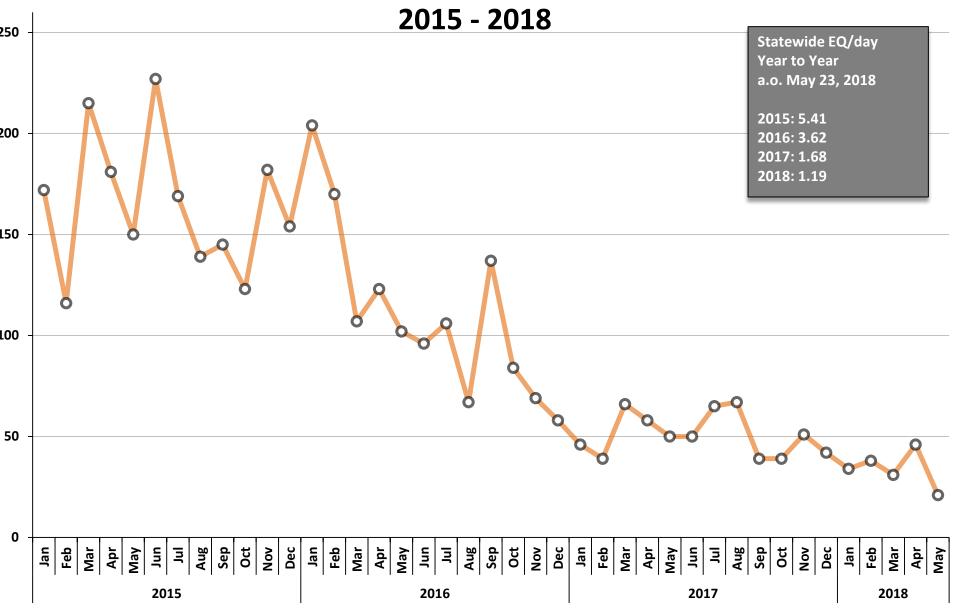
Editors, Producers: A map showing the wells and earthquake activity is attached, as are a list of the wells and the most recent earthquake rate chart.

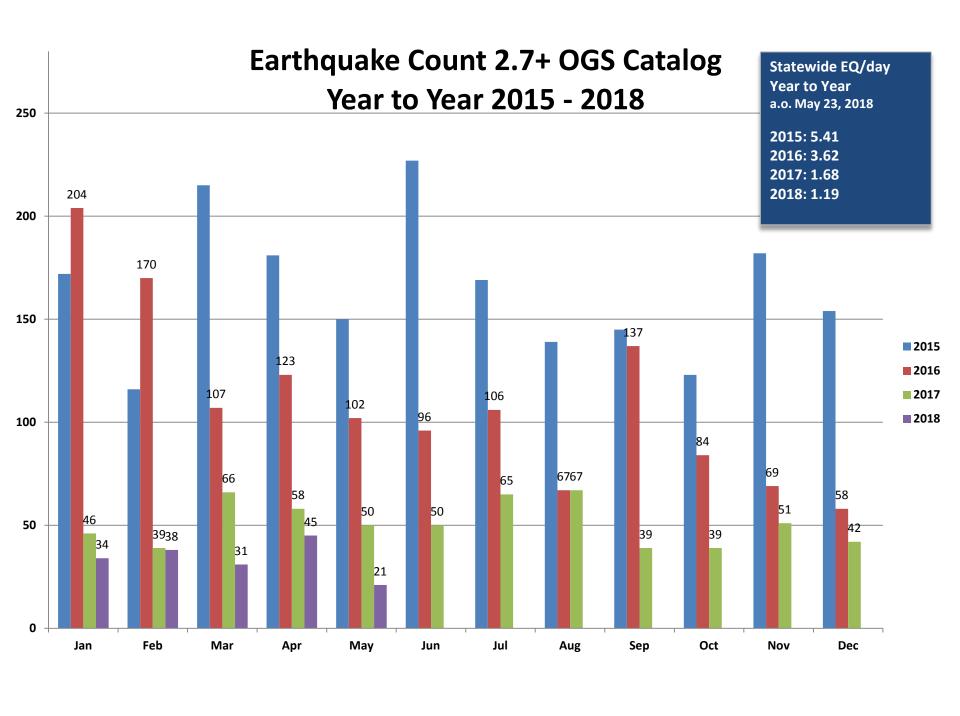


Op_Name	WellNamNum	Latitude	Longitude
STEPHENS ENERGY GROUP LLC	KRITTENBRINK 1-36 SWD	36.07341	-97.58401
WHITE STAR PETROLEUM LLC	FUXA 25-19N-4W 1SWD	36.10025	-97.57075
WHITE STAR PETROLEUM LLC	ADKISSON 1-33SWD	36.07325	-97.52317
STEPHENS ENERGY GROUP LLC	CAT IN THE HAT 2-19 SWD	36.0286	-97.55586

Op_Name	WellNamNum	Latitude	Longitude
BEREXCO LLC	HENN 5	36.176535	-97.430521
DORADO E & P PARTNERS LLC	POLLARD 1-35 SWD	35.99974	-97.70422
DORADO E & P PARTNERS LLC	VADDER 1-9X SWD	36.04416	-97.74672
KIRKPATRICK OIL COMPANY INC	MARSHALL EAST SWD 1	36.165073	-97.602481
KIRKPATRICK OIL COMPANY INC	OTTER SWD 1-4	36.145698	-97.51713
LONGFELLOW ENERGY LP	HLADICK 14-1 SWD	36.11661111	-97.70947222
STEPHENS ENERGY GROUP LLC	CHAMBERS 1-8 SWD	35.97053	-97.53468
STEPHENS ENERGY GROUP LLC	FUXA 1-15SWD	36.12045	-97.6097
STEPHENS ENERGY GROUP LLC	MORRISETT SWD 2	35.926171	-97.553441
STEPHENS PRODUCTION CO	HOPFER BROTHERS SWD 1	36.0005	-97.47392
WHITE STAR PETROLEUM LLC	BRANSON 17-4-23 1 SWD	35.928088	-97.601456
WHITE STAR PETROLEUM LLC	BROWN TRUST 19-3-17-1 SWD	36.128415	-97.53318
WHITE STAR PETROLEUM LLC	DUDEK 12-18N-3W 1SWD	36.04493	-97.46273
WHITE STAR PETROLEUM LLC	EAVENSON 24-19N-3W 1SWD	36.10243	-97.46356
WHITE STAR PETROLEUM LLC	ELAINE 10-18N-2W 1SWD	36.04384	-97.399726
WHITE STAR PETROLEUM LLC	FRANK SWD 1-33	36.0785278	-97.41533889
WHITE STAR PETROLEUM LLC	HOPFER 1-20 SWD	36.028591	-97.540716
WHITE STAR PETROLEUM LLC	LEMMONS 14-19N-3W 1SWD	36.117432	-97.481226
WHITE STAR PETROLEUM LLC	LENA 15-19N-3W 1SWD	36.12998	-97.51438
WHITE STAR PETROLEUM LLC	SMITH 1-14D SWD	36.202383	-97.593669
WHITE STAR PETROLEUM LLC	WILMA SWD 1-16	36.11643	-97.409886

# Earthquake Count 2.7+ OGS Catalog





**Earthquake Count 2.7+ OGS Catalog** Year to Year 2015 - 2018 Statewide EQ/day 250 Year to Year a.o. May 23, 2018 2015: 5.41 2016: 3.62 2017: 1.68 200 2018: 1.19 150 2015 2016 2017 <del>~~</del>2018 100 50 Jul Oct Jan Feb Mar Apr May Jun Aug Sep Nov Dec

# **Earthquake Count 2.7+ OGS Catalog**

