

**Objective Criteria Review Memo ADDENDUM - KERR MCGEE OIL & GAS ONSHORE LP
SHAKE 11-1HZ -- Form 2 Application for Permit to Drill (APD) Doc# 402260610**

Approved Form 2A Oil & Gas Location Assessment (S&B 5-11HZ PAD Doc# 402261082, approved 4/1/2020)

Location ID# 474765

The Form 2A for this Oil & Gas Location was reviewed for all 23 wells proposed for this Location. COGCC's technical review of the 2A and all 23 APDs included review within the context of SB 19-181 and the required Objective Criteria. Objective Criteria Review Memo, Doc# 2316635, is in the Location's file in COGCC's database. This Addendum provides additional information regarding the delayed approvals of the 23 APDs permitted at this Location.

Delayed Approval of APDS:

The Form 2A was approved on 4/1/2020. The APDs did not pass completeness until 5/4/2020.

The Objective Criteria Review Memo for this location (Doc# 2316635) identified that this location met Criteria #1 for being located within 1500' of one building unit, Criteria #2 for being located within the Town of Johnstown, Criteria #3 for being located within 1500' of the border between the Town of Johnstown and unincorporated Weld County, & Criteria #5c for an area of estimated shallow groundwater and distance to nearby ditches. The Objective Criteria Review Memo identified BMPs on the Form 2A that should successfully mitigate against the impacts identified by meeting Criteria #1, #2, #3, & #5c, including:

Criteria 1

Kerr McGee owns the nearest building unit and the resident has been contacted regarding the proposed oil & gas location and was one of the building units notified within a mile for a neighborhood meeting. Kerr McGee provided the following BMPs to mitigate being located within 1500' of a building unit: site lighting directed downward and shielded, traffic plan with Johnstown, water for dust mitigation, sound walls, quiet completions fleet, and a closed loop drilling system.

Criteria 2 & 3

Kerr McGee has an Operator agreement with the Town of Johnstown which includes this location and is pursuing a Use by Special Review Permit of this specific location. Weld County recognizes the Town of Johnstown's jurisdiction and had no further comment on the location.

Criteria 5c

Kerr McGee provided BMPs to mitigate being located nearby to surface water features and being within an area estimated to have shallow groundwater. The BMPs include: tertiary containment in the form of ditch & berm system around the location, a stormwater management plan including sediment traps, lined containment for temporary and permanent tanks on location, and remote monitoring/shut-in capabilities.

Based on this analysis, the Operator is complying with the existing BMP's and COA's on the approved Form 2A to address the Objective Criteria that were met during the original review of the Form 2A and no further Sundry or Memo is necessary at this time. The APD's IN PROCESS should be passed and sent to Final Approval with the following comment:

COGCC conducted the technical review for the related Oil and Gas Location Assessment permit, Form 2A document #402261082 under the statutory authority provided through SB 19-181, including the Objective Criteria. The Director approved the Form 2A on 4/1/2020, establishing Location ID #474765 subject to conditions included in the permit. The well proposed by this related Form 2 was contemplated during COGCC's review of the Form 2A. The Objective Criteria Review Memo (Doc# 2316635) can be found in the document file for this Location.