

Prairie LE Pad
SWSW Sec 20-T1S-R66W

Written Explanation

The proposed project consists of the construction of one (1) well pad with up to forty-four (44) new horizontal wells, associated production facilities and one (1) access road for an oil and gas location to be operated by Great Western Operating Company (GWOC). GWOC does not intend to drill all 44 wells consecutively. The drilling schedule is subject to change due to economic conditions, business development priorities and equipment availability.

The proposed well site will be ± 18.42 acres in size which will be interim reclaimed to ± 6.62 acres once all wells have been drilled and completed. The attached Production Layout shows the maximum area to be disturbed by operations.

Pad Access and Road Construction

The access road to the Prairie LE Well Site is located along E. 136th Ave, which is maintained by the City of Brighton, Colorado. The intersection with E. 136th Ave. is approximately 0.8 miles east of the intersection of Sable Blvd. and E. 136th Ave. The access road will be a 26' wide gravel surfaced road. The surfacing gravel will consist of 6 inches of CDOT Class 3 Aggregate Base Course, capable of supporting the site heavy truck traffic and emergency vehicles.

BMPs will be installed to mitigate the earthmoving activities and to stabilize the graded surfaces to achieve re-vegetation. During the drilling and completions activities, a 35' high sound wall will be installed along the perimeter of the pad. Upon completion of the final wells, the site facilities will be fenced and a gate will be installed at the access to provide security for the life of the well and screening. If not initially constructed in its ultimate location, the perimeter fencing may be moved to accommodate the additional infrastructure.

Drilling Operations

Following construction, the rig will be brought to the site, commencing a twenty-four hour/day drilling operation for each of the planned wells. The duration of drilling operations is estimated to be about six days per well, and one month for the initial rig occupation. Typical operations on the well site pad will consist of a rig at the center of the pad along with water storage to be used in the drilling operation, pipe racks for temporarily stored drill piping, a mud pump to circulate the drilling fluids through the system, power generators, tool storage, fuel storage for said generators and pumps, and a doghouse enclosure to protect workers from inclement weather. Several mud tanks will be located adjacent to the rig to store drilling fluid until it is required down the wellbore. A hopper will be located adjacent to the mud tanks for the dry components of the drilling compound.

Construction trailers, portable toilets, garbage storage and extra fuel storage will be located near the edge of the pad site. The operator utilizes a "closed loop system" during drilling. Water used to support drilling operations may be trucked in or piped in and temporarily stored onsite. Drilling mud will be disposed of offsite, in a manner approved by the Colorado Oil & Gas Conservation Commission (COGCC).

Completion and Production Operations

The Completion Phase and Flow Back follow drilling, which lasts approximately one week per well. It is at this time that the formation fracturing occurs. Fracturing materials, mainly sand, are trucked in, and mixed onsite with water and other fracturing fluids. Production equipment is installed concurrent with the Completion Phase. Production equipment may include pumping units or other artificial lift, fluid storage tanks for oil and produced water, production separators, vapor recovery towers, a meter run, combustors, flares and compressors.

Produced oil and water will be trucked offsite, until such time as the planned oil and water gathering system is in place. Produced natural gas will be sold through the meter and piped offsite in accordance with COGCC regulation. Produced water will be disposed of offsite as approved by the COGCC. Production of a viable well can last twenty-years.

Restoration / Reclamation

Interim reclamation will be conducted under company supervision per COGCC regulations after all planned wells are drilled. The pad will be backfilled with soils in the reverse order removed and capped with the separated topsoil. Sub soils will be mechanically compacted while backfilling if necessary

City of Brighton Coordination

The local Government jurisdiction is the City of Brighton and Great Western Operating Company has an executed MOU with them. GWOC followed the City of Brighton's CUG process and completed the requirements over a 16-month period. This process included a Pre-Conceptual Meeting, Neighborhood Meeting and a Final CUG Submittal. Great Western staff worked with the City on planning and mitigation details of the location based on staff and referral comments that were received. During that time, Great Western also made revisions to the site and operating plans and clarified the remaining questions of staff and the referral agencies. Additionally, Great Western worked in coordination with Petroshare, whose Brighton Lakes Pad is adjacent to the Prairie Pad, to plan a cohesive landscaping plan that met Brighton expectations. The Brighton CUG (Case File Number 18-00214) was approved on January 27, 2020.

Emergency Response Coordination

Brighton Fire Protection District was a referral agency during the Brighton CUG process. They provided comment on the permit and requested a meeting to discuss the location. That meeting was held on August 30, 2019. Brighton Fire was satisfied with the Brighton CUG application and has agreed to service our location.

Neighborhood Summary

Date/Time: August 15, 2019, 6:00 p.m. – 7:30 p.m.

Location: Bison Ridge Recreation Center, 13905 East 112th Avenue, Commerce City, CO 80022

The City of Brighton provided 14 neighbors near the proposed Prairie Pad with invitations to a neighborhood meeting. The City received 2 RSVPs and 6 people attended the meeting. We welcomed attendees, requested signatures and explained that we would be holding an open table forum. There were five (5) tables located around the perimeter of the room, each table focused on a different topic of interest as follows: Drilling, Geology, Land, Regulatory, and Environmental Health & Safety. Attendees were encouraged to visit each table and ask

questions or voice concerns that they may have regarding the proposed project. There was good dialogue between Great Western and attendees. Various operations questions were asked including how drilling and completions operations worked. The main area of concern was visual mitigation for homeowners within proximity to the location. Staff explained that sound wall will be used during drilling and completions operations to assist with sound mitigation. Regulatory discussed the submitted landscaping plan. Additionally, based on conversations from that night, Great Western will be revising the Traffic Management Plan to include an easterly route along 136th Avenue to 76.

All attendees were encouraged to provide additional questions or comments in writing following the meeting to a project specific email address: community@gwogco.com. Handouts with this email address were available on each discipline's table, as well as at the event entrance. Great Western has not received any follow up questions regarding this meeting, but we are always available for questions or concerns.