

Siting Rationale

A30-01 Pad

Township 6 North, Range 64 West, 6th P.M.

Section: 30 NE/4NE/4

Noble's Business Development (BD) team decided to begin the process of permitting Sections 30, 31, the West half of 32 and the West half of 29 in Township 6 North Range 64 West. This area presents challenges on both the North and South ends of the Development Plan (DP). Section 31 has already been developed into a feedlot in the Southwest Quarter. Lone Tree Creek (and associated floodplain) winds through the Southeast Quarter of Section 31, not leaving enough room for Noble to operate prudently. In addition, the creek is prime habitat for nesting raptors in the area, and in order to ensure Noble was not impacting any of the habitants we decided to look elsewhere for pad locations.

As we continued to analyze the South half of the DP, we found a location that would work from a construction standpoint in the Southwest Quarter of Section 29. Unfortunately, Noble's Operations teams eliminated the location due to the inability to drill approximately one-mile step outs to the Western most wellbores. After this plan failed the feasibility review, we did not pursue a landowner meeting to gauge interest regarding the placement of a pad in their flood irrigated field. Instead, we thought we could utilize the level agriculture fields further south. As we placed the pads in ideal locations for Drilling and Completions requirements, the closest we could get to the Southern border of the DP was one-half mile away. This presented multiple issues from not only an operational standpoint but also an environmental. Section 6 was already occupied by PDC permits for the Dunn and J Klein wells (that are now producing). Immediately, Noble noticed the inherent risk of drilling, completing and operating twelve horizontal wells within a floodplain. Noble has been very clear that we do not stake new horizontal wells in active floodplains due to the risks associated with public safety. The logistics of drilling our wells to land just beyond the toes of the Dunn/J Klein wells, while securing a subsurface easement from PDC, was enough for us to venture North to look at the Northern corridor.

When evaluating the Northern corridor a few main features stuck out. There are two ditches running through the East half of Section 19, a creek in the West half of Section 19, a community in the East half of Section 20, agriculture throughout, and a few other building units along County Road 66. Since we were already planning on permitting a pad East of the Grandview Acres community (DP 131 A20-15 PAD), Noble did not want to sandwich them with another pad in close proximity to the West. In addition, Noble didn't want to try and plan a flowline corridor around or through the community (since the proposed wells would produce at the A21 Production Facility). It was then decided to see if a pad in the Southeast Quarter of Section 19 would work to distance operations from nearby building unit owners.

Upon initial review, and in addition to the difficulty of siting wells in an orientation that wouldn't obstruct his farming operation, a concern arose regarding the amount of elevation difference from east to west. Due to the significant slope of the field flowing directly into an active water source, Noble felt it was best from a safety, stormwater and construction standpoint to not try to place a pad in this location.

After ruling out the location, Noble looked to one of the few options remaining. The surface owner began planning possible pad locations with Noble in March of 2018. They believed pad locations in the Southeast quarter of the Southwest Quarter of Section 19 (A19-14 PAD, A19-11 TANK) and a location in the

Northeast Quarter of Section 30 (A30-01 PAD) were the best suitable for protecting public health and safety. The A30-01 PAD needed to border the Country Road 53 in order to accomplish the drilling technicalities of the eastern border of the spacing unit. Noble recognized that the placement of the wellheads needed to move south down County Road 53 to distance the operations from the building units on the intersection of County Road 53 and 66. Noble located the Roth wells on the property in such a way that optimized drilling by reducing the wellbore step out distance within the Drill Spacing Unit, which is crucial when drilling and completing 2-mile-long laterals, while ensuring the surface owner was in agreeance and public health and safety was kept a priority. On January 30, 2020 the surface owner and Noble Energy executed a Surface Use Agreement.