

**MARATHON OIL COMPANY  
596-32C RESERVE PIT CLOSURE**

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**Prepared For:**



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## **INTRODUCTION**

On June 2, 2011, Bolton Construction, under the supervision of InterTech Environmental & Engineering, L.L.C., facilitated the closure of the onsite reserve pit at Marathon Oil Company's 596-32C well pad. Bolton used a track hoe and two haul trucks to transport the pit materials from 596-32C to 596-33C. The drill cuttings from the 596-32C well pad were included in the Notice of Completion (NOC) report for 596-33C.

Marathon's 596-32C well pad currently utilizes an evaporation pond. This site will be reclaimed during the closure of the evaporation pond. This document serves as an addendum for the 596-32C NOC report, which will be completed after closure of the evaporation pond.

## **BACKGROUND**

Marathon owns the surface rights at both the 596-32C and 596-33C locations. Cuttings from 596-32C and 596-33C were sampled by Golder and Associates in 2010. The laboratory analytical report for both locations was utilized in the analytical data summary that is included in the 596-33C NOC report dated January 20, 2012.

The drill cuttings from 596-32C were added to the reserve pit at 596-33C, at which point the cuttings were considered 596-33C pit material. During closure of the 596-33C reserve pit, all of the cuttings were mixed with clean soil, removed from the pit, and then further mixed and landfarmed on the well pad to mitigate COGCC Table 910-1 constituents prior to being backfilled, compacted, and top-soiled. Please refer to 596-33C's NOC for additional information.

## **PIT CLOSURE**

The cuttings from the 596-32C reserve pit were bailed out of the pit and loaded into haul trucks for transport. After all of the pit's material had been removed, the pit was filled-in using clean soil from the spoil pile located on the west side of the pad. After compaction of one lift of soil, another load of soil was placed on top and again compacted. This process continued until the excavation was filled. Backfilling operations concluded on June 4, 2011.

## **SEEDING AND STABILIZATION**

Western States Reclamation (WSR) evaluated the well pad and developed a site-specific plan for seeding. Seed, fertilizer, hydro-mulch, and additional soil amendments were ordered in sufficient quantities to ensure growth and stabilization. Areas of the site that were no longer required for production operations were hydro-seeded and hydro-mulched. Seeding operations began on October 20, 2011, and concluded on October 21, 2011.

**596-32C pad location  
Interim Reclamation**

**Page 1 of 2**

10/20/2011 grading and seeding began  
10/21/2011 grading and seeding complete

Photos taken 5/20/2014



Top soil pile



Top soil pile



Top soil pile



Southern fill slope



Southwestern corner fill slope



Western fill slope





Northern fill slope



Spoil pile



Spoil pile



Looking south across pad



View of eastern cut slope