

Project Title: KOG Midway Booster Pump Station
PU-18-024

Reporting Date: **October 4th, 2019**

1. Project Overview

Project Managers: Clay Anderson
Project Location: SOR, Keene ND

2. Project Status

2.1. Performance Indicator Explanation

- Quality: Programming rework

3. Summary of Progress

3.1. Key Accomplishments since last reporting

- 30-Sep
Replacement fiber installation complete, fiber terminated. Onsite commissioning
- 1-Oct
PSSR/DOT Checklist/walkdown complete. CC&C handed over to operations. Start up delayed due to extended PSSR/DOT/Walkdown and blinds left installed. SDV solenoid operating incorrectly, warranty issue, utilized ENBS solenoid for replacement.
- 2-Oct
Start-up commenced.
Bled all air, bypass closed at launcher/receiver to direct all KOG Pipeline oil through pump house. First oil introduced 10:00. SDV solenoid installed. Identified and corrected all known programming glitches. Pump P-5010 ran/performed as required. Pump P-5011 experienced high vibration, resolved by jumping the frequency through the VFD.
- 3-Oct
Continuation of start-up and pump tuning. Security Trailer released.
- 4-Oct
Continuation of start-up and pump tuning. Start up complete. Both Pumps operational with verified flows of 15-45 MBOPD. Pumps shut-down for the weekend due to vibration issues (to be address next week).

3.2. Major Activities Planned for next reporting

- Civil/Foundation onsite walkdown with engineering
- Execute punchlist items identified during walkdown
- Fencing installation scheduled (16/Oct/19), last remaining work activity minus punchlist items.

4. Project Schedule Summary

Milestones	Planned Date	Revised Date	Actual Date	Comments
Pump shipment date	12-Jun-19		24-Jun-19	Nord gear reducer bearing overheating delayed shipment
Pump arrival	24-May-19	20-Jun-19	27/28-Jun-19	Trailer #1 broke an axle (2 day delay), trailer #2 flat tire (4 hour delay in offload)
KOG Shutdown for piping tie in complete	25-Jun-19	24-Jun-19	24-Jun-19	
Piping Hydro-test	8-Jul-19		8-Jul-19	
Delivery Booster Pump Skid to site	6-Sep-19	6-Sep-19	6-Sep-19	
Phase II execution	6-Sep-19	6-Sep-19	6-Sep-19	
Start-up	27-Sep-19	30-Sep-19	3-Oct-19	Start up delay due to programming issues and rework on fiber optic install delaying commissioning