### East Manson Unit No. 5

## **Waterflood Project**

# Planned Corrosion Control Program\*\*

#### Source Well

- Downhole corrosion inhibition program
- Downhole scale inhibition program
- Corrosion resistant valves and internally coated surface piping

### **Pipelines**

- Source well to 16-4-13-28W1 water plant fiberglass
- New high pressure pipeline to injection wells 2500 psi high pressure fiberglass

#### **Facilities**

- 16-4-13-28W1 water plant and new injection pump station
  - Plant piping 600 ANSI 80 pipe, internally coated or 2500 series fiberglass
  - o Filtration stainless steel bodies and PVC piping
  - o Pumping ceramic plungers, stainless steel disc valves
  - o Tanks internally coated Devoe 253, corrosion resistant valves

### Injection Wellhead / Surface Piping

 Corrosion resistant valves and stainless steel and/or internally coated steel surface piping

#### <u>Injection Wells</u>

- Casing cathodic protection where required
- Wetted surfaces coated downhole packer
- Corrosion inhibited water in the annulus between tubing and casing
- Internally coated tubing surface to packer
- Corrosion resistant master valve
- Corrosion resistant pipeline valve

## **Producing Wells**

- Casing cathodic protection where required
- Downhole corrosion inhibition program
- Downhole scale inhibition program

<sup>\*\*</sup>subject to final design and engineering