

# TRUE SUCCESSES

## OIL DRAG REDUCING AGENT (DRA)

### Advantage to using these DRAs

- Highly flowable product for minimal downtime of injection pumps
- Injection units in compliance with Canadian regulations
- Flexible field service package

**Area**  
North American

**PureChem Product**  
Oil Drag Reducing Agent (DRA)

### Case Histories in North America Since 2013

Oil Type in Pipeline	Oil Specific Gravity	Diameter of Pipeline	Length of Pipeline (km)	DRA Dosage (ppm)	% Pressure Drop (Fixed Flow Rate)	% Flow Rate Increase (Fixed Pressure)	Location
Medium Crude	0.865	12"	155	40	43	35	Northern Alberta
Medium Crude	0.842	12"	85	40	42	30	Northern Alberta
Medium Crude	0.835	12"	112	40	40	29	Northern Alberta
Medium Crude	0.863	12"	260	40	45	25	Northern Alberta
Condensate	0.695	8"	62	40	49	42	Lloydminster, Alberta
Condensate	0.688	6"	168	20	62	60	Edmonton, Alberta