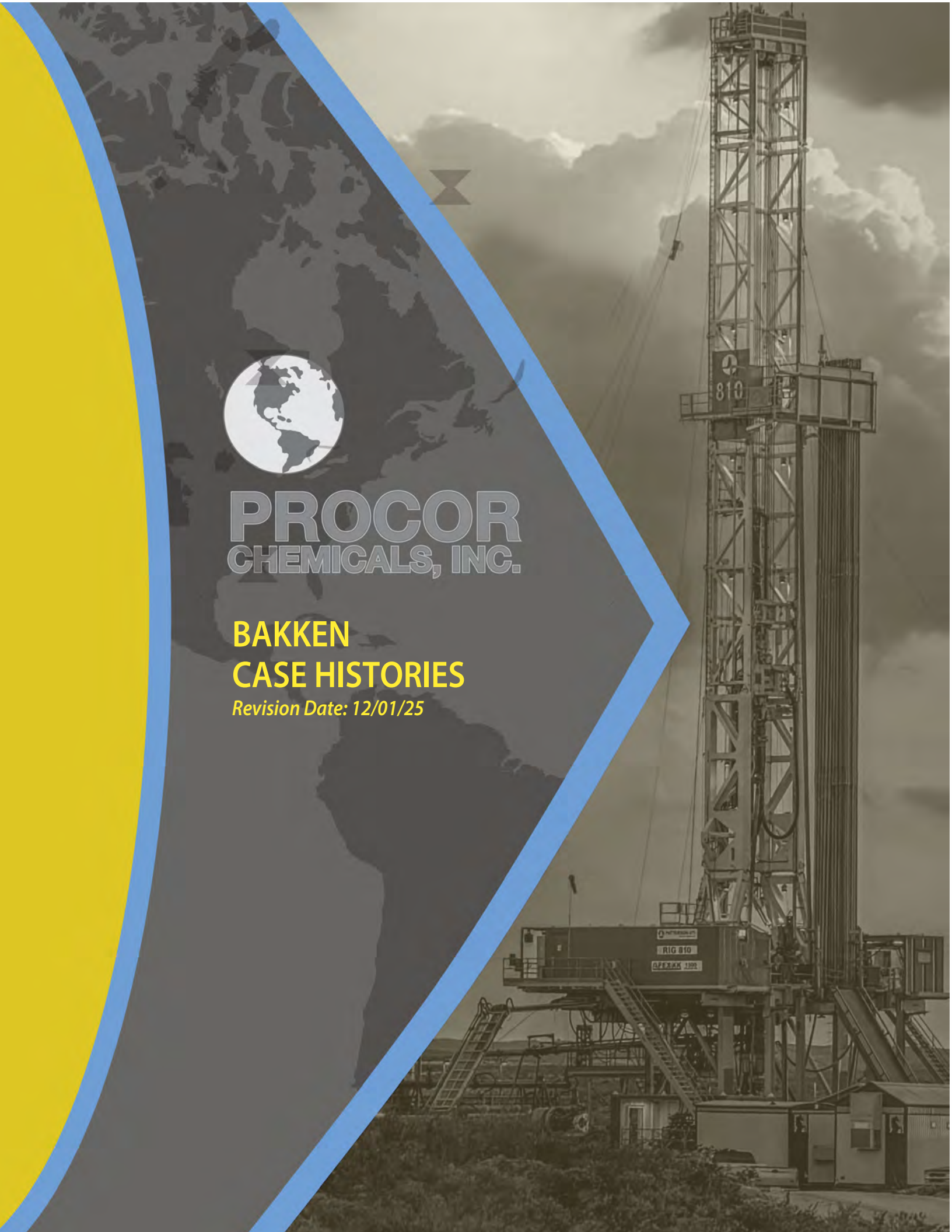
PROCOR
CHEMICALS, INC.

BAKKEN
CASE HISTORIES

Revision Date: 12/01/25



PROCOR CHEMICALS, INC.

DATE: 12/1/25	BAKKEN SHALE CUSTOMER LIST	

COMPANY NAME

Conocophillips
Empire North Dakota
Devon Energy/Grayson Mill Energy
Hess Corp
Oasis / Chord Energy
Ovintiv
Slawson Expl

Bakken Shale Case Histories:

McKenzie County, ND- SB SuperCeal, PRO V+, PRO X

Date	12/1/25
Operator	Devon Energy- Williston
Well	Barbara 31-30F 9H
Field	Grinnell
County	McKenzie County, ND
Rig	Nabors B13

Challenges

Wellbore stability, preventing fluid losses, ensuring good cement job

Soultions / Products recommended

PROCOR recommended 20bbls at 30ppb as preventive sweeps, 10ppb SBSC, 10ppb PRO V+ and 50bbl @ 45ppb PRO V+ ahead of cement as a Pre-Cement spacer.

Results

Drilled to TD, minimizing fluid losses and casing run and cemented successfully

Mountrail County, ND SB SuperCeal, PRO V+, PRO X

Date	9/29/25
Operator	Slawson Exploration
Well	Rebel Federal 3-32-17H
Field	Big Bend
County	Mountrail County, ND
Rig	Nabors X25

Challenges

Wellbore stability, preventing fluid losses, ensuring good cement job

Solutions / Products recommended

PROCOR recommended 20bbls at 30ppb as preventive sweeps.

Results

Drilled to TD, minimizing fluid losses and casing run and cemented successfully

McKenzie County, ND - SB SuperCeal, PRO V+, PRO X

Date	8/24/25
Operator	Devon Energy - Williston
Well	Scott 13-24F XE 1H
Field	Grinnell
County	McKenzie County, ND
Rig	Nabors B17

Challenges

Wellbore stability, preventing fluid losses

Solutions / Products recommended

PROCOR recommended pumping 20bbl preventive sweeps 10ppb SBSC, 10ppb PRO V+

Results

Drilled to TD, minimizing fluid losses and casing run and cemented successfully

McKenzie County, ND - SB SuperCeal, PRO V+, PRO X

Date	8/25/25
Operator	Devon Energy- Williston
Well	Costanza 24-13 4H / Finn 13-25F 1H / Barbara 36-25F XW 1H
Field	Grinnell
County	McKenzie County, ND
Rig	Nabors B13

Challenges

Wellbore stability, preventing fluid losses

Solutions / Products recommended

PROCOR recommended pumping 20bbl preventive sweeps

Results

Drilled to TD, minimizing fluid losses and casing run and cemented successfully

Bouttineau County, ND, Gumbo Gone

Date:	9/5/24
Operator:	Empire North
Well:	Dakota Magpie 25
Field:	1H Starbuck
County:	Bouttineau County, ND
Rig:	

Challenges:

Operator expected experiencing gumbo issues and needed fluid solutions. Drilling Concerns• Severely fractured/ permeable formation• Shale Stabilization.

Solutions/Recommendations:

When drilling out of surface Preventative and maintenance for drilling with WBM. Prior to drill out of surface we recommend adding 1.5 totes Gumbo Gone to the system. When drilling resumes, we recommend beginning a sweep regimen of 20bbls every 200' containing 4% by volume Gumbo Gone. Gumbo Gone is a stand-alone fully hydrated polyacrylamide, low foaming surfactant and slight viscosifier for dispersion and carrying capacity. Gumbo Gone will coat, disperse and keep shales/clays in good shape preventing reactivity.

Results:

Successfully drilled to TD minimizing gumbo issues.

McKenzie County, ND – *PRO X, PRO HG*

Date:	6/27/23
Operator:	ConocoPhillips
Well:	George 1B MBH
Field:	Pershing
County:	McKenzie County,
Rig:	Nabors B20

Challenges:

Operator fighting fluid losses, well bore instability and gas influx. Have not seen drill pipe pressure in three days, pumping conventional LCM products everything would go straight south and shut in casing pressure would not move.

Solutions/Recommendations:

PROCOR recommended mixing up PRO V+, PRO X and PRO HG. Started mixing with 186bbls Brine water, Viscosity 30-32 @ 10.2ppg, ended up with 245bbls using several pits and transferred / reduced volume by 45bbls. Added 100sxs of PRO X to compensate for reduced volume. Added PRO HG last before weighting up to 10.9ppg, Operator decided to cut weight back to 10.5ppg by adding 20bbls of fresh water.

Results:

As of report time the SICP and SIDPP are almost the same, we did a few more pump ins until entire pill volume was used. Waited 1 hour , leaving 6 bbls of slurry above the "mission canyon" to try and circulate. Finally able to circulate at full drill rate with full returns and PROCOR Engineer released

Notes:

Plan was to try and circulate on the choke and weight up a little at a time, to kill well and circulate gas out. Once the gas was killed, they went ahead and began cement plugging/ST operations.