



PROCOR CHEMICALS, INC.

HAYNESVILLE CASE HISTORIES

Revision Date: 11/11/25





PROCOR CHEMICALS, INC.

DATE: 11/11/25

PROCOR CUSTOMER LIST
HAYNESVILLE SHALE OPERATORS

COMPANY NAME

Apex Resources
Azul Resources
Chesapeake Energy
EnSight Energy Management
Ovintiv/Encana
Exco Resources
Expand Resources
Goodrich Petroleum
Indigo Minerals
Magnetar Operating
Rockliff Energy
Paloma Resources
Pine Wave Energy
Silver Hill Energy
Tellurian
Trinity Operating

Haynesville Shale Case History:

- DeSoto Parish, LA – PRO V+, PRO X

Date: 11/11/25
Operator: Apex Natural Gas
Well: CDF 34-11-12 UH #4
Field: Brushy Bayou
Parish: DeSoto Parish, LA
Rig: ICD 304

Challenges:

Unable to perform acceptable FIT on surface casing shoe. Goal was to squeeze shoe. Mud Company chemicals were squeezed prior to arrival with some but not enough success or pressure.

Solutions/ Product Recommendation:

Recommended 40 bbl pill at 80 ppb (30ppb PRO V+, 30ppb PRO X 15ppb PRO Sweep Aid, 5ppb SB SuperCeal) Recommendation followed. PV+ 30ppb, PX 30ppb, PSA 15ppb, SBSC 5ppb.

Results

After pumping and squeezing, desired pressure and MWE achieved, rig was able to drill ahead with no issues. Procedure went as planned with obvious results observed, problem solved. Products mixed in mixing hopper to slugging pit on rig. Pumped using rig mud pumps. Pill spotted at 2300' just below shoe. No problems encountered during this mixing procedure and no issues pumping products down to desired depth.

Shelby County, TX - PRO Sweep Aid, SB SuperCeal, PRO V+, PRO X

Date: 8/12/25
Operator: Apex Natural Gas
Well: Christine A 2H
Field: Carthage
County: Shelby County, TX
Rig: IDC 336

Challenges

Fluid Losses, wellbore stability, getting cement to surface.

Solutions/ Product Recommendations

Pumping preventative sweeps as needed with preventative products PRO Sweep Aid , SB SuperCeal, Also have Contingency Products PRO V+, PRO X for backup if needed.

Results

Currently drilling out surface cement for the intermediate section. This well has not seen the amount of losses. However, if losses are coming, it will be as they get deeper down.

- Webster Parish, LA – PRO V+ Pre-Cement Spacer

Date: 5/16/25
Operator: Ensign Energy
Well: Taliaferro 33-4H #1
Field: Elm Grove
Parish: Webster Parish, LA
Rig: Nabors x-17

Challenges:

Currently finishing up intermediate section, expecting fluid losses and needing a good cement job.

Solutions/ Product Recommendation:

Operator is diligent about running recommended preventative sweeps for Wellbore Stability and preventing fluid losses and PRO V+ Pre-Cement Spacer ahead of cement.

Results

Drilled to TD of intermediate sections with no losses.

- Caddo Parish, LA -

Date: 4/21/25
Operator: Paloma Natural Gas
Well: LZRD 12&24-18-15HC
Field: Greenwood – Waskom
Parish: Caddo Parish, LA
Rig: Independence 322

Challenges:

Currently they are drilling ahead on the first of two laterals at 21,000' with TD coming at 25,000', expecting fluid losses.

Solutions/ Product Recommendation:

We recommend running preventative sweeps for Wellbore Stability and preventing fluid losses.

Results

Drilled to TD of intermediate sections with no losses.

Sabine Parish, LA - PRO SLIDE

Date: 4/14/25
Operator: Expand Energy
Well: OLY 32&29&20-9-12 2HC
Field: Haynesville
Parish: Sabine Parish, LA
Rig: SDC 502

Challenges:

Currently experiencing slow ROP while rotating and sliding and limited on pumping lube sweeps. Comments about BHA/ bit being used could possibly be an issue.

Solutions/ Product Recommendation:

Discussed with Operator running 10% by volume sweeps which gave minimal improvement so decision was made to treat the system with 5% PRO Slide to have product continuous in the system without pumping sweeps.

Results

Drilled to TD with some improvement. Results could be improved with running of WBSM / preventative products prior to having issues.

DeSoto Parish, LA

Date: 10/21/24
Operator: Ensign Energy Management, LLC
Well: Griffith 11H 002-Alt
Field: Holly
Parish: De Soto Parish, LA
Rig: Basin 103

Challenges:

Currently at 17,150' at TD, attempting to POOH for casing. Hole is tight with pack off issues

Solutions/ Products Recommended

We recommended our standard sweep mixtures to assist with hole cleaning.

Results

Sweeps helped improve hole cleaning and well successfully TD'd. Last well here on this pad with rig going to TGNR near Carthage, TX next.

Sabine Parish, LA – PRO V+, PRO X, SB SuperCeal, PSA, PRO HG

Date: 6/15/24
Operator: EnSight IV Energy
Well: Blakey ETAL 8 001
Field: Zwolle
Parish: Sabine Parish, LA
Rig: Rapad 42

Challenges:

To assist in preventing fluid loss and help keep the hole clean using sweeps of various concentrations depending on the situation. Also, to regain returns if lost, by spotting LCM pills of various recipes depending on the situation.

Solutions/ Product Recommendation:

We recommended several products including: PRO V+, PRO X, SB Superceal, and PRO Sweep Aid. These products were mixed in various sweep mixes. We also used different combinations of these products along with PRO HG in three different pills we spotted after returns were lost. Sweeps were 15-30 ppb depending on situation. Pills were 70-80 ppb.

Results:

After mixing, spotting, and squeezing our third pill, we were able to regain returns and drill ahead with no losses. However; after drilling 1, 200', a mistake by the mud engineers caused to well to pack off and lose returns again. This led to two cement squeezes to get back to drilling. Until the mistake by the mud engineers, we had full returns and no losses while drilling.

Note

Operator uses 50bbl / 45ppb. PRO V+ Pre-Cement Spacer on every casing run to ensure a good cement job.

Harrison County, TX - PTCM

Date: 11/6/23
Operator: Rockcliff Energy
Well: May-Griffin HV Unit D 5H
Field: Carthage
County: Harrison County, TX
Rig: Nabors X-17

Challenges:

Operator experienced a significant losses drilling the "Travis Peak".

Solutions/ Product Recommendation:

PROCOR was given another opportunity on the 5H well to prevent running of 10 3/4" contingency casing by controlling fluid loss drilling through several formations of concern with a tapered hole 13.5" down to 9 7/8" to TD of intermediate. Main formation of concern was the "Travis Peak" @ +/-6,200'

Recommended treating active system with 7 ppb of PROtightceal Medium and maintaining with two sacks per hour due to controlled drilling at 50fph from top of "Travis Peak" to TD.

Products were mixed through the mixing hopper into the active system. Initially mixed 250 sacks, then 2 sacks hourly. No problems encountered during this mixing procedure and no issues pumping products through tools or bit

Results:

After initial treatment, no fluid loss was observed again throughout entire section to TD. Procedure went as planned and rig was able to drill to TD intermediate section without having to run contingency liner any concerns with fluid loss. This was unable to be done with other 3rd party/conventional LCM's on prior wells in same area..

Harrison County, TX - PTCM

Date: 10/27/23
Operator: Rockcliff Energy
Well: May-Griffin HV Unit D 4H
Field: Carthage
County: Harrison County, TX
Rig: Nabors X-17

Challenges:

On the 1st intermediate section the system was treated with Starshield and pretty significant losses were encountered drilling in to the "Travis Peak" almost having to run a planned contingency . PROCOR was given the opportunity to prevent running of 10 3/4" contingency casing by controlling fluid loss drilling through several formations of concern with a tapered hole 13.5" down to 9 7/8" to TD of intermediate. Main formation of concern was the "Travis Peak" @ +/-6,200"

Solutions/ Product Recommendation:

Recommended treating active system with 7 ppb of PROtightceal Medium and maintaining with two sacks per hour due to controlled drilling at 50fph form top of "Travis Peak" to TD. Products were mixed through the mixing hopper into the active system. Initially mixed 250 sacks, then 2 sacks hourly. No problems encountered during this mixing procedure and no issues pumping products through tools or bit.

Results:

After initial treatment starting early due to some encountered seepage, no fluid loss was observed again throughout entire section to TD. Worked perfect. Procedure went as planned and rig was able to drill to TD intermediate section without having to run contingency liner any concerns with fluid loss.

Panola County, TX – PRO Horizontal Beads, PRO Slide

Date: 9/29/23
Operator: Rockcliff Energy
Well: Furrh-Cooper HV Unit 4H
Field: Carthage
County: Panola County, TX
Rig: Nabors X-17

Challenges:

Operator experiencing slow ROP and Torque problems.

Solutions/ Product Recommendation:

We recommended a combination of products including PRO Horizontal Beads and PRO Slide synthetic based lubricant.

Results:

Products, improved the casing sliding to bottom with ease. Unfortunately, the casing sub plugged up with hole trash/cuttings 290' from bottom but overall improvement from the previous issues they were having
