

FEATURES

- Robust design allows for larger flow area by utilizing flapper and seat instead of ball and seat
- Design allows spring to keep flapper open once running tool is removed
- 10,000 psi differential
- Spring-loaded flapper is made of dissolvable material (dissolve rate dependent on salinity of completion fluid)
- Optional ball transfer system keeps the integrity of the slips and seals from damages
- Flapper design allows for flow back/ production
- Optional ball transfer system lifts the Cajun Plug off casing walls and "rolls" instead of drags by reducing friction

BENEFITS

- Reduces time and saves money
- Reduces fluid consumption
- Faster initial production time for end users
- One run plug and perf system
- Helps with footprint of equipment on location by reducing amount of equipment needed
- Reduces potential incidents
 by streamlining personnel and
 equipment exposures

CAJUN PLUGS[™] Evolutionary Flapper Plug



Drilling Tools International's Cajun Plugs have been designed with the customer's focus in mind. Unlike traditional fracking plugs, this evolutionary flapper plug reduces the need for coiled tubing milling by utilizing a flapper and seat. The flapper and the seat are respectively contoured to receive each other and form a seal or a plug. The flapper is dissolvable and can flap to the open position with pressure beneath overcoming the spring force, leaving a large flow area for flow back or production. Since the flapper is on a hinge and spring system, wellbore pressure can allow the well to flow or produce without milling or potentially having a ball flow up to the body of another plug assembly above – which could greatly reduce flow or even form a plug.

Cajun Plugs are run on a standard setting tool to allow proper placement and setting. The body of the Cajun Plug can be made of a ductile, composite, or dissolvable material and can be milled by coiled tubing should the need arise. Cajun Plugs also have an optional ball transfer system at the lower end. This greatly reduces friction as it allows the plug to "roll" on the ball transfers rather than drag along the walls of the casing. Thus, the integrity of the slips and seals are not compromised and are protected from damages and cuts since the OD at the ball transfer is slightly larger than the OD of the plug.

The optional ball transfer housing is made of aluminum, and the small balls are stainless steel. Cajun Plugs do not have a ball drop system, so time and money are also saved by eliminating the need to drop and pump several balls on seat. Additional savings are gained from the reduced water amount necessary to pump the balls on seat *and* the trucking costs associated to bring the water to location. Since time is greatly reduced by this plug and perf system, Cajun Plugs allow the end user to bring the well to initial production as much as two to three days faster than traditional plug and perf systems. Ball transfers friction coefficients are 0.002 to 0.007 versus normal drag coefficients of 0.20 to 0.30. If your priorities include saving critical time and money, allow Cajun Plugs to lead the way.





Corporate

3701 Briarpark Dr • Ste 150 Houston, TX 77042 832.742.8500

Offshore/International

and Manufacturing 1149 Smede Hwy Broussard, LA 70518 337.856.0333

Product Sales 337.364.9244

Other Drilling Tools International Centers:

Houston, TX • 281.645.2010

Midland, TX • 432.563.0676

Odessa, TX • 432.248.8350

New Iberia, LA • 337.256.5848

Oklahoma City, OK • 405.604.2763

Bakersfield, CA • 661.869.1752

Casper, WY • 307.237.5248

Charleroi, PA • 724.565.5682

Minot, ND • 701.818.5724

Williston, ND • 701.609.8702

Nisku, Alberta, Canada • 877.570.1962

CAJUN PLUGS[™]

Comparison (Composite Plug vs. Cajun Flapper Plug)

EXAMPLE: 40 plugs per well ; 10 wells ; Rig day rate \$20,000 (\$850 per hour) ; Oil price of \$50 / bbl

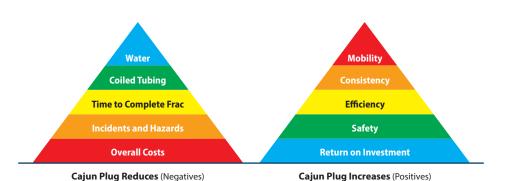
Composite Plug and Coiled Tubing

- Composite plug purchase: 40 plugs for 10 wells = 400 plugs. 400 x \$1,000 (each) = \$400,000
- Coiled tubing operations: 10 wells at \$150,000 per well = \$1,500,000
- Rig time for coiled tubing operation: 3 days per well for 10 wells at \$20,000/day = \$600,000
- Production difference: assume 500 bbl/day at \$50 each. 3 days per well at 10 wells= \$750,000
- Time to pump ball on seat: 400 plug balls at 30 mins each = 200 hours at \$850/hour= \$170,000
- Chemicals, water and trucking for frac balls pumping: \$4,000 per well at 10 wells = \$40,000 Totals: \$3,460,000

Cajun Flapper Plug

• Flapper plugs: 40 per well at 10 wells = 400 plugs at \$4,200 per plug = \$1,680,000 Totals: \$1,680,000

Cost savings of \$1,805,000 by utilizing Cajun Plugs



Casing PSI Plug Plug OD Dissolve Plug Dimension Size Rating Temperature ID @ Balls Rate Length 4 1⁄2″ – 11.6# 10,000 2 25/32" 3.80" 3 3/4" -40° F-300° F 48 Hours 14.86' 4 1/2"-13.5# 3 21/32" 10,000 -40° F-300° F 2 25/32" 3.725" **48 Hours** 14.86" 4 1/2" - 15.1# 3 %16" 10,000 $-40^{\circ} F - 300^{\circ} F$ 2 21/32" 3.630" 48 Hours 14.74" 5"-18.0# 4.00" 10.000 -40° F-300° F 3 1/8" 4.080" 50 Hours 14.51" 5 1/2"-17.0# 4 5%" 10,000 -40° F-300° F 3 5%" 4.700" 52 Hours 15.70" 5 1/2" - 20.0# 4 1/2" 10,000 -40° F-300° F 3 5%" 4.585" 52 Hours 15.70" 5 1/2" - 23.0# -40° F-300° F 4.475" 52 Hours 4 1⁄4″ 10,000 3 3%" 15.44" 5 1/2" - 26.0# 4 1/4" 10,000 -40° F-300° F 3 3/8" 4.345" 52 Hours 15.44"

Drilling Tools International, Inc. is a leading provider of downhole tools to the land and offshore drilling markets. For nearly 40 years our company has been guided by the principals of Strength, Innovation and Performance. We consistently deliver world class customer service while providing quality products that meet the demanding drilling applications of today's market.

Our Quality Management System is certified in compliance to ISO 9001, and API Spec Q1 and our manufacturing is licensed to API Spec 7-1. Our Quality Management System governs all of our processes from planning, to process control, to delivery. This ensures that we consistently manufacture products that not only meet API standards but also meet the ever-changing needs of our customers.

©2023 Drilling Tools International, Inc. All rights reserved. v2-2023

