NonExplosiveOilfield Products

well intervention products & services



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about us

NeoProducts[®] offers well intervention products and services to the Global Oil Industry. Some products are tried and proven, while other products are new novel technologies that provide significant value and benefits to the Global Oil Industry.

Our company provides safe, reliable products with aroundthe-clock professional technical support.

James V. Carisella, Sc.D., founder of NeoProducts, has developed leading edge well intervention technologies for 30+ years. Carisella is named as the principal inventor of 37 US and international patents.

A few of the leading edge products that are readily available are shown below:

- >> Non-Explosive Setting Tools
- >> Positive-sealing Elastomeric Plugs
- >> Non-Explosive Gravity Bailer Systems
- >> Non-Explosive Positive Displacement Bailer Systems
- >> High Shear Bond Cement Slurry Systems
- >> Non-Explosive Deployed Thru-Tubing Bridge Plugs





Non-Explosive Setting Tools

Electronic Non-Explosive Setting Tools (NeoNEST[®]) Model 10/20 NeoNEST (Standard & UHP/UHT)

- 2 & 3 Stage 213 NeoNEST

Electronic Non-Explosive Setting Tools for NeoPEPs (NeoNEST for NeoPEP)

>> Model 175/213/263

Hydrostatic Driven Non-Explosive Setting Tools

- >> NeoHST
- >> HPHT NeoHST

Electrohydraulic Setting Tools for Vented NeoT-TBPs

>> NeoRT

Cement Slurry Systems

NeoFlex Cement System NeoSuperSlurry[®] System & Modifier Packs

- >> Gray Lid, Red Lid, Black Lid, Blue Lid, White Lid Modifiers
- >> NeoCasing Cleaner
- >> 2-Batch NeoSuperSlurry

Dump Bailer Cement Slurry Accessories

- >> NeoSlurry Mixing Unit
- >> NeoBottom Fill System
- >> Flex Bailer
- >> NeoThermometerSub

Dump Bailer Systems

Gravity Bailer Systems

- >> NeoBailerBottom (NeoBB[®])
- >> Select-Fire NeoBB
- **Positive Displacement Bailer Systems**
 - >> NeoHybridPDB[®]



product list

Thru-Tubing Bridge Plugs

Positive-sealing Elastomeric Plugs

- >> NeoPEP (Permanent & Removable)
- >> Vented Thru-Tubing Bridge Plugs (NeoT-TBPs)
- >> NeoWideRange[®] Vented NeoThru-Tubing Bridge Plug
- >> Double Basket NeoThru-Tubing Bridge Plug
- >> NeoPushPlug Tool (NeoPT)

Cast Iron Bridge Plugs & Cement Retainers

Magna-Range High Expansion Tbg Plug Elite Cast Iron Bridge Plug Power Charge Setting Tool Cast Iron Bridge Cement Retainers

Retrievable Tbg Bridge Plugs

Extreme & Ultra Plugs

NeoStraddleSystem

Appendix

Morphology of a Dump-Bailed Cement Plug

NeoNEST[®]

Model 10/20 NeoNEST® (Standard & UHP/UHT)

The NeoNEST is a "Ready-to-GO" wholly integrated nonexplosive setting tool.

Model 10 & 20 NeoNEST service ratings and adapters are the same as Model 10 & 20 Baker Setting Tools.

SPECIFICATIONS

- >> Standard Service (pressures to 15,000 psig and temperatures to 350° F (177° C))
- >> 2-stage NeoNESTs are capable of longer strokes and 100,000+ lbf (NeoHST)
- >> UHP/UHT Service (pressures to 20,000 psig and temperatures to 420° F (215° C)) (NeoHST)

MODELS

- >> Model 10 Max Temperature, Force and Stroke Capabilities: 350° F (177° C), 35,000 lbf and 6" stroke
- Model 20 Max Temperature, Force and Stroke Capabilities: 350° F (177° C), 60,000 lbf and 10" stroke

BENEFITS

- >> Safer, more efficient field operations
- >> Eliminates burdens related to the use and transport of explosives
- Safe, easy transport by land, sea, and air with out restrictions
- >> No expendable costs per run
- >> Over one hundred plugs can be run and set between redressing†
- Produces long-life superior plug and packer seals
- >> Compatible with Shooting Gamma Ray
- >> Operates on positive and negative polarity



APPLIED FORCE VS. ELAPSED TIME

FEATURES

- >> Uses Baker Setting Tool adapters and routine field operations
- >> Resets in seconds (another plug can be attached and run within minutes)
- >> Sets plugs and packers in 6 12 minutes
- >> Produces superior, long-life pressure isolation
- >> Allows availability to set over one hundred plugs between redressing operations+
- >> Operated in any spatial orientation (vertical through up-side-down orientations)
- >> No transportation restrictions
- >> Can be run in horizontal wells

NeoNEST is Patent Protected

⁺Valid when BHP & BHT are less than 5,000 psig & 250° F, respectively.

STANDARD SERVICE MODELS							
NeoNEST Models	Max Service Pressure	Max Service Temp	Max Applied Load Capability	Power Requirement @ Head	Run-in Diameter	NeoNEST Make-up Length	NeoNEST Weight
Model 10	15,000 PSIG	350° F 177° C	35,000 LBF @ 6" STROKE	275 VDC & 700 MILLIAMP	2.75"	140-½"	132 LBMS
Model 20	15,000 PSIG	350° F 177° C	60,000 LBF @ 10" STROKE	275 VDC & 700 MILLIAMP	3.81"	151-¼"	250 LBMS
			<u> </u>				



NeoNEST[®] for NeoPEP

Model 175/213/263

Wireline Run Electronic Non-Explosive Setting Tools (NeoNEST) for Neo Positive-sealing Elastomeric Plugs (NeoPEP)

The NeoNEST is a "Ready-to-GO" wholly integrated non-explosive setting tool.

MODELS

- >> Model 175 Long Stroke Max Temperature, Force & Stroke Capabilities: 350° F (177° C), 20,000 lbf and 107" stroke
- >> Model 213 Max Temperature, Force & Stroke Capabilities: 350° F (177° C), 25,000 lbf and 88" stroke
- >> Model 263 Max Temperature, Force & Stroke Capabilities: 350° F (177° C), 50,000 lbf and 100" stroke



FEATURES

- >> Operated in vertical through horizontal orientations
- >> No transportation restrictions
- >> Compatible with Shooting Gamma Ray Tools
- >> Operates on positive and negative polarity
- >> Corrosive service and HP/HT models available
- >> Wellsite report and plot of stroke vs time and plot of applied setting force

BENEFITS

- >> Safer, more efficient field operations
- >> Eliminates burdens related to the use and transport of explosives
- Safe, easy transport by land, sea, and air without restrictions
- >> No expendable costs per run
- >> Stroke rates yield superior plug, packer, and patch pressure isolation

STANDARD SERVICE MODELS							
NeoNEST Models	Max Service Pressure	Max Service Temp	Max Applied Load Capability	Power Requirement @ Head	Run-in Diameter	NeoNEST Make-up Length	
M175 Long Stroke	10,000 PSIG	350° F 177° C	20,000 LBF @ 107" STROKE	275 VDC & 700 MILLIAMP	1.75"	433"	
M213	10,000 PSIG	350° F 177° C	25,000 LBF @ 98" STROKE	275 VDC & 700 MILLIAMP	2.13"	414"	
M263	10,000 PSIG	350° F 177° C	50,000 LBF @ 100" STROKE	275 VDC & 700 MILLIAMP	2.63"	474"	



NeoHST

Neo Hydrostatic SettingTool

- >> Rigless Recompletions
- >> Non-explosive Thru-Tubing Zonal Isolations

NeoHSTs are used to effectively set the permanent and removable NeoPEPs (Neo Positive-sealing Elastomeric Plugs).

NeoHSTs function in multiple stages, using wellbore pressure, with 2 stages being the standard. These multiple stages generate the force necessary to set the anchors, compress the packing element, and sever the weak point. Severing the weak point allows the NeoHST to release from the NeoPEP.

The pressure housing of the NeoHST houses atmospheric pressure chambers. The first and second stages utilize the bottom hole pressure applied to the lower end of the pistons working against these atmospheric chambers. The moving pistons are driven up into the chamber drawing the plug mandrel into the tool. This action causes the outer components of the plug mandrel to be compressed against the bull plug attached to the bottom of the mandrel. When the predetermined load is reached, the weak point severs, releasing the set NeoPEP from the NeoHST.

The NeoHST comes standard as a 2-stage tool. Additional stages, sold as Extra Stage Kits, are needed for lower Setting Depth Pressures.

NeoHSTs are run on wireline, slickline, tractor, coiled tubing, and threaded pipe. They can set NeoPEPs in open hole, cased hole, perforated casing intervals, and gravel packs. NeoHSTs are not suitable for use in solid-bearing wellbore fluids (muds) or media intended to abate fluid loss.



PRODUCTS

NeoProducts® provides all the non-explosive tools needed for a 1-day zonal isolation;

- >> Positive-sealing Elastomeric Plug (NeoPEP)
- >> Neo Hydrostatic Setting Tool (NeoHST)
- >> Non-Explosive Cement Dump Bailer System (NeoBB® and NeoHybridPDB®)
- >> High Shear Bond Cement Slurry Kits (17 20 ppg expanding NeoSuperSlurry®)

HYDROSTATIC DRIVEN NON-EXPLOSIVE SETTING TOOLS (NEOHSTS)							
		FOR USE WITH N	EOPEPS				
Run-in Diameter	Setting Tool StrokeMaximum Service TemperatureMaximum Service PressureMaximum Setting 						
1.75 in. (4.44 cm)	56 in. (142.24 cm)	350°F (177°C)	15,000 psia (1,034 bar)	15,000 lbf (6,818 kg)			
2.13 in. (5.41 cm)	94 in. (238.76 cm)	350°F (177°C)	10,000 psia (689 bar)	25,000 lbf (9,843 kg)			

HYDROSTATIC DRIVEN NON-EXPLOSIVE SETTING TOOLS (NEOHSTS)						
Run-in Diameter	Setting Tool Stroke	Maximum Service Temperature	Maximum Service Pressure	Maximum Setting Tool Force		
1.75 in. (4.44 cm)	12 in. (30.48 cm)	350°F (177°C)	15,000 psia (1,034 bar)	15,000 lbf (6,818 kg)		
2.13 in. (5.41 cm)	12 in. (30.48 cm)	350°F (177°C)	10,000 psia (689 bar)	25,000 lbf (9,843 kg)		
2.50 in. (6.35 cm)	12 in. (30.48 cm)	350°F (177°C)	15,000 psia (1,034 bar)	25,000 lbf (9,843 kg)		
3.50 in. (8.89 cm)	12 in. (30.48 cm)	350°F (177°C)	15,000 psia (1,034 bar)	65,000 lbf (29,438 kg)		



NeoHST HPHT NeoHST

NeoHSTs are used to effectively set the permanent and removable NeoPEPs (Neo Positive-sealing Elastomeric Plugs). HPHT NeoHSTs are non-explosive and replace pyrotechnic setting tools. NeoProducts[®] Technical Team have set thousands of plugs with HSTs over the last 40 years.

Neo Service Specialists are available to set plugs in HPHT wells and place cement atop the plugs.

Service Temperatures & Pressures for HPHT NeoHSTs are: 400° F (204° C) & 20,000 psig.

The HPHT NeoHST Setting Tools are available for purchase and/or rent. HPHT NeoHSTs are not always available off the shelf, 60-day ARO deliveries are common.

NeoProducts also provides Ultra-HPHT Setting Tools with service ratings of; 400° F & 30,000 psig.

Contact NeoProducts for additional information.



HPHT NeoHSTs

- >> Run on WL, SL, and CT
- >> Can be run in Gas, Heavy Brines, and Muds,
- >> Set plugs and packers in 30 150 seconds and therein yield long-life pressure isolation barriers
- >> Can be operated in vertical through horizontal orientations
- >> Use Standard Baker Setting Tool adapter subs and "GO" Setting Tool adapter subs
- >> Have no transportation restrictions

BENEFITS

- >> Safer field operations
- >> Unlike pyrotechnic setting tools, NeoHSTs can deliver max load capability throughout the entire stroke
- >> Eliminate burdens related to the use and transport of explosives
- >> Safe, easy transport by land, sea, and air without restrictions
- >> Produce long-life superior plug and packer seals
- >> Compatible with Shooting Gamma Ray
- >> Operates on positive and negative polarity

HPHT NEOHST MODELS						
NeoHSTs Replace These Pyrotechnic Setting Tools	Service Pres- sure Range	Max Ser- vice Temp	Max Applied Load Capability	HPHT NeoHST Run-in Dia.	HPHT NeoHST Make-up Length	
1.69 GO MRST GO Magna Range STs	10,000 - 20,000 PSIG	400° F 204° C	20,000 LBF @ 10.5" STROKE	1.75"	111" (9'-3")	
2.13 GO MRST Go Magna Range STs	10,000-20,000 PSIG	400° F 204° C	32,000 LBF @ 10.5" STROKE	2.13"	111 (9'-3")	
Baker Model 10	10,000-20,000 PSIG	400° F 204° C	50,000 LBF @ 6" STROKE	2.88"	135" (11'-4")	
Baker Model 20	10,000-20,000 PSIG	450° F 232° C	100,000 LBF @ 11" STROKE	3.84"	135" (11'-4")	



NeoRT

Electrohydraulic Setting Tools for Vented NeoT-TBPs

>> Non-explosive Thru-Tubing Zonal Isolations

NeoRTs provide the ability to deploy non-explosive NeoWideRange[®] Thru-Tubing Bridge Plugs rather than the conventional explosive-deployed Thru-Tubing Bridge Plugs. NeoRTs thread to the top of the NeoWideRange Thru-Tubing Bridge Plugs and are actuated by the application of DC power sent down the WL or from a downhole slickline power supply. Standard and HPHT/UHPHT Service models are available for sweet, sour and acid gas service conditions.

NeoRTs are reusable. Redressing a NeoRT only requires replacing O-rings, which are readily available in redress kits from NeoProducts[®]. NeoRTs assure non-explosive deployment of NeoWideRange Thru-Tubing Bridge Plugs.

BENEFITS

- >> Eliminates burdens related to use and transport of explosives
- >> Exceptionally simple to run and maintain
- >> Expendables are 2 fl-oz of hydraulic fluid per run
- >> 1-11/16" NeoRT can deploy 1-5/8" thru 9-5/8" nonexplosive NeoWideRange Thru-Tubing Bridge Plugs
- >> NeoRTs can be run on WL and slickline (with a downhole slickline power supply)

NeoRT STANDARD & HPHT/UHPHT SERVICE SPECIFICATIONS						
Standard Service	Length	Diameter	Max BHP	Max BHT		
1-3/4"	20" (50.8 cm)	1-3/4" (4.5 cm)	15,000 PSIG (1,034 bar)	350° F (177° C)		
1-5/8"	20" (50.8 cm)	1-5/8" (4.13 cm)	15,000 PSIG (1,034 bar)	350° F (177° C)		
1-11/16"	20" (50.8 cm)	1-11/16" (4.29 cm)	15,000 PSIG (1,034 bar)	350° F (177° C)		
HPHT Service	Length	Diameter	Max BHP	Max BHT		
1-3/4"	20" (50.8 cm)	1-3/4" (4.45 cm)	25,000 PSIG (1,723 bar)	450° F (232° C)		
1-5/8"	20" (50.8 cm)	1-5/8" (4.13 cm)	25,000 PSIG (1,723 bar)	450° F (232° C)		
1-11/16"	20" (50.8 cm)	1-11/16" (4.29 cm)	25,000 PSIG (1,723 bar)	450° F (232° C)		
Sour Service	Length	Diameter	Max BHP	Max BHT		
1-3/4"	20" (50.8 cm)	1-3/4" (4.45 cm)	25,000 PSIG (1,723 bar)	450° F (232° C)		
1-5/8"	20" (50.8 cm)	1-5/8" (4.13 cm)	25,000 PSIG (1,723 bar)	450° F (232° C)		
1-11/16"	20" (50.8 cm)	1-11/16" (4.29 cm)	25,000 PSIG (1,723 bar)	450° F (232° C)		

CONTACT NEOPRODUCTS FOR 12V AND 24V SLICKLINE OPTIONS





NeoFlex Cefas Rated Gold Cement System

NeoFlex Cement System Cefas Rated Gold Service Range: 70° - 350° F (21° - 177° C)

NeoFlex has unique physical properties that enhance fracture toughness, elasticity, and bonding to casing and formations, reducing the occurrence of micro-cracking and gas migration. NeoFlex is used to Block Gas Migration and the Occurrence of Sustained Casing Pressure (SCP). NeoProducts & HPI cement systems have been run in 100,000+ wells over the last 33 years. NeoFlex plugs, anchors, seals, heals and re-heals over a lifetime of well production & abandonment.

NeoFlex plugs may be pressure tested 24 hrs after the last bailer run. Early high compressive strength reduces "waiting on cement time"



F dev = 1.0 @ 0° deviation, 1.2 @ 30°, 1.6 @ 60°, 2.0 @ 70°

The double hump SBS curve is related to the complex interactions of transient cement silicate phases and retarder concentrations. NeoProducts prudently recommends; read and comply with all the slurry mixing instructions included in the NeoFlex kit on every dump run, locate the bailer bottom to be 1-2ft above the platform upon which the slurry will collect, "never dump

less than 10 ft of cement slurry when a long-term high ΔP plug is desired".

APPLICATION

>> Rigless recompletions and well abandonments.

ATTRIBUTES

- >> Ultra-low Permeability
- >> Flexible
- >> Post–Cure Expansion
- >> High Shear Bond
- >> Self-Healing

FEATURES

- >> Post-cure expansion that seals and heals throughout well production life and abandonment
- >> Blocks gas migration and eliminates the occurrence of sustained casing pressure
- >> Ultra-low permeability that prevents hydrocarbon migration
- >>> Flexibility and durability that abates the occurrence of micro-cracking, ensures long-term well integrity, and abates de-bonding between cement, casing, and formation

AVAILABILITY

- >> 17 ppg
- >> 5-gallon Batch Kits for bailing operations
- >> Dump Bailer Cement Kits are off-the-shelf ready-to-go cement kits



Gray + Red + Black Lid

Dump Bailer Cement Kits

GRAY

- >> NeoSuperSlurry[®] System 70° - 350° F Service Temp Range
- >> The dry blend pail in this kit is easily identified by its Gray Lid.
- >> This SuperSlurry System is available as a two-pail kit, which contains a blend of High Sulfate Resistant (HSR) API cement and proprietary admixes, as well as a kit with a premeasured amount of mix water. This two-pail kit yields a 5 gallon batch of 17 ppg Expanding High Shear Bond slurry. The slurry contains proprietary expansion and suspension agents, shear bond enhancing admixes, plus numerous constituents needed to assure high ΔP plugs.
- >> NeoSuperSlurry plugs provide hydraulic seals that are anchored in place for the life of the well. Each kit contains a report listing the cement grind number, production date, the API compressive strength for the neat cement, and the 24 hour compressive strength and shear bond strength for the NeoSuperSlurry blend in the kit.

RED

- >> HPHT NeoSuperSlurry System 300° - 450° F Service Temp Range
- >> The dry blend pail in this kit is easily identified by its Red Lid.
- This HPHT System is available as a two-pail kit, which contains a blend of High Sulfate Resistant (HSR) API cement and proprietary admixes, as well as a kit with a premeasured amount of mix water. This two-pail kit yields a 5 gallon batch of 17 ppg Expanding High Shear Bond slurry. The slurry contains a proprietary HPHT suspension agent, an expansion admix, shear bond enhancing admixes, plus numerous constituents needed to assure high ΔP plugs.
- >> HPHT NeoSuperSlurry plugs provide hydraulic seals that are anchored in place for the life of the well. Each kit contains a report listing the cement grind number, production date, the API compressive strength for the neat cement, and the 24 hour compressive strength and shear bond strength for the NeoSuperSlurry blend in the kit.





BLACK

- >> 20 ppg NeoSuperSlurry System 70° - 325° F Service Temp Range
- >> The dry blend pail in this kit is easily identified by its Black Lid.
- >> This 20 ppg slurry system is available as a two-pail kit, which contains a blend of High Sulfate Resistant (HSR) API cement and proprietary admixes, as well as a kit with a premeasured amount of mix water. This two-pail kit yields a 5 gallon batch of 20 ppg Expanding High Shear Bond slurry. This 20 ppg slurry is ideal for dumping in 16 – 18 ppg wellbore fluids, and contains a proprietary HPHT suspension agent, an expansion admix, shear bond enhancing admixes, plus numerous constituents needed to assure high ΔP plugs.
- >> 20 ppg NeoSuperSlurry plugs provide hydraulic seals that are anchored in place for the life of the well. Each kit contains a report listing the cement grind number, production date, the API compressive strength for the neat cement, and the 24 hour compressive strength and shear bond strength for the NeoSuperSlurry blend in the kit.





White + Blue Lid

Dump Bailer Cement Kits

WHITE

- >> 17 ppg Accelerated NeoSuperSlurry[®] Dump Bailer Cement Kits
- >> Service Temperature Range: 70° 175° F (21° 79° C)
- >> 17 ppg Accelerated NeoSuperSlurry Kits ("White Lid Kits") are delivered in a single pail that contains a dry powder blend of High Sulfate Resistant (HSR) API Cement and multiple proprietary admixes that impart cement plug performance unsurpassed by any other dump bailed cement plugs.
- >> 17 ppg Accelerated NeoSuperSlurry Kits are off-theshelf ready-to-go dump bailer cement kits that contain all the components needed to build a hightech high-ΔP cement plug placed via dump bailing operations at bottom hole temperatures below 175°F.
- >> Easy to follow mixing instructions on how to make a 5 gallon cement slurry are contained in each kit.
- >> Admixes in the dry powder blend assure; repeatable thixotropic dumping performance, minimal dilution/contamination of the slurry by wellbore fluids, rapid strength development, exceptionally high shear bond with casing, and repeatable/reliable gel, tag and set times at temperatures between 70° - 175° F.
- >> 17 ppg Accelerated NeoSuperSlurry Kits contains a QC/QA report listing; cmt grind number, production date, and the API neat cmt compressive strengths in the kit.

BLUE

- >> NeoSuperSlurry Water Pail
- >> Cement Systems are composed of a cement pail and a blue pail. Cement pails (gray, green, red, and black lids) contain a dry cement blend and blue pails contain the potable water for mixing.
- >> Note: The NeoSuperSlurry Water Pail is sold separately for export cement kits. Export cement kits contain instructions on how to properly weigh out the necessary potable drinking water for use with the cement kits.

GENERAL FEATURES

- >> 100% of the cement used in NeoProducts[®] Cement Kits is Class H (HSR) and is certified to meet all requirements of API Specification 10A
- >> NeoProducts Cement Kits meet all BSEE cement requirements for dump bailing and building cement plugs in casing
- >> Shipments of NeoProducts Cement Kits are composed of gray pails containing a dry cement blend and blue pails containing the potable water.

KEY NOTES

- >> Whenever dumping cement slurry, always locate the bottom of the bailer system 1-2 ft above the bridge plug or 1-2 ft above the top of previously dumped cement.
- >> A minimum plug length of 10 ft is ALWAYS recommended for all plug-back operations.
- >> An 24-hr Wait on Cement Time after the last bailer run is ALWAYS recommended before pressure testing.



Modifier Packs

Dump Bailer Cement Slurry Accessories

ADD 1 TO 2 HOURS TO RUN TIMES AT 70° - 225° F BOTTOM HOLE TEMPERATURE

- >> Low Temp Extended Run Time Pack 70° - 225°F Service Temp Range
- For use with NeoSlurry and NeoSuperSlurry[®] Kits. Use of one pack per cement kit will extend the allowable time from mixing to dumping by an additional 1 to 2 hrs.

SHORTEN SETTING TIMES

- >> Accelerator Pack 70° - 225°F Service Temp Range
- >> One pack, used with NeoSlurry and NeoSuperSlurry Kits, will shorten the set-up time of the cement slurry, by up to 4-6 hours. This modifier pack will also cause the plug to achieve its normal 24-hour strength in 17 to 19 hours.hrs.

ADD 1 TO 2 HOURS TO RUN TIMES AT 225° - 350° F BOTTOM HOLE TEMPERATURE

- >> Intermediate Extended Run Time Pack 225° - 350°F Service Temp Range
- >> For use with NeoSlurry and NeoSuperSlurry Kits. Use of one pack per cement kit will extend the allowable time from mixing to dumping by an additional 1 to 2 hrs.

ADD 1 TO 2 HOURS TO RUN TIMES AT 300° -400° F BOTTOM HOLE TEMPERATURE

- >> HPHT Extended Run Time Pack 300° - 400°F Service Temp Range
- >> For use with HPHT NeoSuperSlurry Kit. Use of one pack per cement kit will extend the allowable time from mixing to dumping by an additional 1 to 2 hours.

DUMPING CEMENT SLURRY IN BROMIDE & HIGH CHLORIDE ION CONCENTRATIONS

- >> Neo Salt Saturation Modifier Pack 70° - 350°F Service Temp Range
- >> Neo Salt Saturation Modifier Pack is composed in a 3-1/2 gallon pail with: 1) NaCl Salt, 2) suspension agent 3) surfactant agent, and 4) shear bond enhancer. Use of one pack per cement kit will yield a 5 gallon batch of 17 ppg Salt Saturated cement slurry that can be dumped in Calcium and Zinc brines, Bromide and Chloride concentrations, as well as CO2 gas concentrations.

INCREASE BOND STRENGTH TO CASING AT LOW TEMPERATURES

- >> Low Temp Expansion Pack 70° - 225°F Service Temp Range
- >> For use with NeoSuperSlurry Kits. The degree of solid state expansion and bond strength to the casing at temperatures below 225°F can be significantly improved by using this accessory pack. Use one pack per cement kit.

NeoCasingCleaner (NeoCC)

Dump Bailer Cement Slurry Accessories

NeoCC is an essential component whenever placing cement slurry in crude oil, gas condensate, and natural gas.

NeoCC can be placed in wellbore brine to increase the shear bond strength between plug and casing.



DUMPING CEMENT SLURRY IN CRUDE OIL

- >> NeoCasingCleaner 70° - 450°F Service Temp Range
- >> NeoCasingCleaner is composed of a 4 gallon batch of 10.0 ppg CaCl2 fluid with surfactants and detergents that: 1) displace crude oil, 2) provide a fluid environment where cmt can set, and 3) cause oil films to peel off the casing ID surface, therein assuring a cement to casing bond.

DESCRIPTION

- >> NeoCC is an essential component whenever placing cement slurry in crude oil, gas condensate, and natural gas
- >> NeoCC is provided in sealed 4-gallon batch kits
- >> Kits are composed of a 10.0 ppg brine solution plus downhole surfactants and detergents.
- >> A special order can be placed for 11.0 13.0 ppg NeoCC. Contact NeoProducts[®] for more details if these densities are needed
- >> NeoCC can be placed in the wellbore via dump bailer, coiled tubing and threaded pipe.
- >> When NeoSuperSlurry is placed in NeoCC, the surface chemistry of the slurry and the casing ID are enhanced; the resultant shear bond strength between the plug and casing is increased by more than 50%
- >> When NeoCC is placed in crude oil, condensate, or natural gas
 - it displaces the hydrocarbon from the location where the cement plug will reside
 - it aggressively removes hydrocarbon films from the surface of the casing
 - > the slurry and casing surface are conditioned to provide a long-term pressure isolating plug



2-Batch NeoSuperSlurry®

Dump Bailer Cement Kits

2-Batch Kits yield two 3-gallon batches of 17 ppg high shear bond expanding cement slurry Service Temperature Range: 70° - 350° F (21° - 177° C)

Organization and formulation of "2-Batch" Kits is the same as our single batch kits that have been successfully run hundreds of thousands of times over 30 years. Our kits are Global Benchmarks.

2-Batch NeoSuperSlurry Kits are delivered in a single pail that contains a dry powder blend of High Sulfate Resistant (HSR) API Cement and multiple proprietary admixes that impart cement plug performance unsurpassed by any other dump bailed cement plugs.

NeoSuperSlurry yield plugs that anchor and seal for the lifetime of the well.

Refer to the chart for NeoSuperSlurry plug length and shear bond strengths.

Whenever dumping cement slurry, always locate the bottom of the bailer system 1-2 ft above the bridge plug or 1-2 ft above the top of previously dumped cement.

A minimum plug length of 10 ft is ALWAYS recommended for all plug-back operations.



A 24-hr Wait on Cement Time after the last bailer run is ALWAYS recommended before pressure testing.

FEATURES

- >> 2-Batch NeoSuperSlurry Kits are off-the-shelf ready-to-go dump bailer cement kits that contain all the components needed to build a high-tech high-ΔP cement plug placed via dump bailing operations
- >> Easy to follow mixing instructions are contained in each kit. Operators can choose to mix a 3-gallon batch or a 6-gallon batch of NeoSuperSlurry
- >> Kits contain two plastic bags, each containing a dry powder blend
- Admixes in the dry powder blend assure; repeatable thixotropic dumping performance, minimal dilution/contamination of the slurry by wellbore fluids, rapid strength development, exceptionally high shear bond with casing, and repeatable/reliable gel, tag and set times at temperatures between 70° - 350° F
- >> Kits also contain a pail that allows easy precise measurement of the water needed to mix 3-gallon and 6-gallon 17 ppg slurry batches
- >> 2-Batch Kits contains a QC/QA report listing; cmt grind number, production date, the API neat cmt compressive strengths, 24 hr cmt slurry compressive strengths and the shear bond strength for the NeoSuperSlurry blend in the kit

MODIFIERS

- >> 2-Batch Accelerator Modifier Packs are available to assist quick strength development at service temperatures between 70° - 225° F. These stand-alone modifier packs shorten gel, tag and set times and increase the shear bond strength between the cement plug and casing between 70°-225° F. Use one modifier pack per cement kit.
- 2-Batch Extended Run-time Modifier Packs extend WL toolstring run-in times and/or dwell time at bottom by 90 120 minutes. Use one modifier pack per cement kit.
- * "G3 Modifier Packs" reduce wait-on-cement times to 12 hrs and less. Contact NeoProducts[®] for more details on G3 Modifier Packs.



Mixers + Bottom Fill Systems

Dump Bailer Cement Slurry Accessories

NEO SLURRYMIXINGUNIT (NeoSMU)

- >> NeoSMU Provides High Shear Rate Mixing of Cement Slurries with Weights up to 22 ppg
- >> Compressor Requirements: 75 cfm at 100 psi
- >> High Shear Rate Spiral Mixing Blade Assures Quick Mixing Times and Uniform Slurry Densities
- >> Operates in Standard 5 61/2 Gallon Pails
- >> Stainless Steel Construction
- >> Easy to Operate and Maintain
- >> Single Paddle Air Driven (Pneumatic) and Dual Paddle Electric Mixers Available



Single Paddle Pneumatic Mixer



Dual Paddle Electric Mixer

NEO BOTTOMFILLSYSTEM

- >> Pump, Hose, and C-Clamp
- >> Neo BottomFill Pump Unit
- >> Neo BottomFill Hose & C-Clamp Attachment
- >> Air Driven Slurry Pump Design
- >> 3 GPM Fill Rate
- >> Compressor Requirements: 20 cfm @ 75 psi
- >> No Guessing on How Much Slurry is in Bailer
- >> No Air Bubbles to Blow Cement Out of Bailer
- >> Easy to Maintain



NeoBottomFill System



NeoFlex Bailer

Dump Bailer Cement Accessories

Neo Flex Bailer is placed between standard Neo bailer joints to allow for plug-back operations in corkscrewed or doglegged tubing operations where standard bailer will not work. The flex joint can be placed between standard 5 ft or 10 ft sections of bailer. The standard stiff toolstring length is reduced with the use of the Neo Flex Bailer.

FEATURES

- >> Reduces stiff toolstring length to accommodate corkscrew tubing operations
- >> Number of runs can be reduced due to the ability to run longer flex bailer systems

NEOFLEX BAILER SPECIFICATIONS						
Bailer Size	Part Number	O.D. (in.)	I.D. (in.)	Make-up Length (in.)		
1-3/8"	1100-138-001	1.375"	0.63"	12.00		
1-5/8"	1100-163-001	1.625"	0.78"	12.00		
2"	1100-200-001	2.00"	1.13"	12.00		



NeoThermometerSub

Dump Bailer Cement Slurry Accessories

- >> NeoThermometerSub P/N: 0100-990-001
- >> 1 ¾" Dia x 8.2" Make-up Length *10,000 lbf Pull Strength @ 350° F (177° C) (SF = 3X)
- >> 1 3/16" 12 thrd GO Box & Pin with Thru-conductor (Other Connection Designs Available - Contact NeoProducts)
- >> Carries 2 Max Registering Thermometers in Travel Carrier Shells (Thermometers Available from NeoProducts)
- >> Max Temp: 400° F (204° C) & Max Press: 12,500 psig (850 bar) (HPHT Models Available – Contact NeoProducts)
- >>> Includes Thermometer Shake Down Tool Box and Pin Thrd Protectors Available from NeoProducts

*Note: The service rated pull strength is 10,000 lbf @ 350° F so long as the tool is kept clean and free of damage from pipe wrenches and corrosion.









NeoBB[®] Gravity Bailer System

NeoBailerBottom (NeoBB – the global benchmark in non-explosive dump bailer systems

NeoBBs convert explosive dump bailer systems into non-explosive dump bailer systems. NeoBBs attach to the bottom gravity bailer joint and are actuated by the application of DC power sent down the wireline or from a downhole slickline power supply. Actuation requires approximately 450-500 milliamps. Standard and HPHT Service Models are available for sweet, sour and acid gas service conditions.

The NeoBB assures non-explosive dump bailing of cement and sand slurries.

NEOBB SPECIFICATIONS (STANDARD AND HPHT/UHPHT SERVICE)						
Standard Ser-		Dimenis	ons		Service Ratings	
vice	Length	Diameter A	Diameter B	Diameter C	Max BHP	Max BHT
1-5/8" NeoBB	19" (48.3 cm)		1-5/8" (4.14 cm)		15,000 psig (1,034 bar)	350° F (177° C)
1-3/4" NeoBB	19" (48.3 cm)		1-3/4" (4.5 cm)		15,000 psig (1,034 bar)	350° F (177° C)
2-1/2" NeoBB	23-3/4" (60.3 cm)	2-1/2" (6.4 cm)	2-1/4" (5.7 cm)	1-3/4" (4.5 cm)	15,000 psig (1,034 bar)	350° F (177° C)
3" NeoBB	23-3/4" (60.3 cm)	3" (7.6 cm)		1-3/4" (4.5 cm)	15,000 psig (1,034 bar)	350° F (177° C)
		Dimenis	ons		Service	Ratings
	Length	Diameter A	Diameter A Diameter B Diameter C			Max BHT
1-5/8" NeoBB HPHT	21-7/8" (55.6 cm)	1-5/8" (4.14 cm)			25,000 psig (1,724 bar)	450° F (232° C)
1-3/4" NeoBB HPHT	21-7/8" (55.6 cm)		1-3/4" (4.5 cm)		25,000 psig (1,724 bar)	450° F (232° C)
2-1/2" NeoBB HPHT	28-5/16" (71.9 cm)	2-1/2" (6.4 cm)	2-1/4" (5.7 cm)	1-3/4" (4.5 cm)	25,000 psig (1,724 bar)	450° F (232° C)
3" NeoBB HPHT	28-5/16" (71.9 cm)	3" (7.6 cm)	2-1/4" (5.7 cm)	1-3/4" (4.5 cm)	25,000 psig (1,724 bar)	450° F (232° C)
		Dimensi	ons		Service	Ratings
Sour Service	Length	Diameter A	Diameter B	Diameter C	Max BHP	Max BHT
1-5/8" NeoBB - SS	21-7/8" (55.6 cm)		1-5/8" (4.14 cm)		25,000 psig (1,724 bar)	450° F (232° C)
1-3/4" NeoBB - SS	21-7/8" (55.6 cm)	1-3/4" (4.5 cm)			25,000 psig (1,724 bar)	450° F (232° C)
2-1/2" NeoBB - SS	28-5/16" (71.9 cm)	2-1/2" (6.4 cm)	2-1/4" (5.7 cm)	1-3/4" (4.5 cm)	25,000 psig (1,724 bar)	450° F (232° C)
3" NeoBB - SS	28-5/16" (71.9 cm)	3" (7.6 cm)	2-1/4" (5.7 cm)	1-3/4" (4.5 cm)	25,000 psig (1,724 bar)	450° F (232° C)

Contact Neo for Slick Line information.





Select-Fire NeoBB®

Gravity Bailer System

Select-fire NeoBailerBottom Systems (S-f NeoBBs)

S-f NeoBBs can save major oil companies and WL companies many millions of dollars per year.

NeoProducts[®] is proud to introduce the S-f NeoBB, an enhanced version of our conventional NeoBB models that have been run in the hole tens of thousands of times. They are used to dump; cement slurries, epoxies, solvents, acids, sand, treatment chemicals, aggregates, etc. They provide the shortest possible turnaround times between bailer runs, therein reducing project times. S-f NeoBB eliminates the logistical and operational burdens related to explosives and provide safer work places. All things considered, using S-f NeoBB will save considerable time and money at the wellsite.

S-f NeoBB can convert single-operation toolstrings into multi-functional toolstrings, therein reducing the number of runs in the hole. S-f NeoBB can selectively direct electric power to other devices in the same WL toolstring. S-f NeoBB makes possible new novel ways to save time and money at the wellsite.

For example, setting a plug in tubing or casing, followed by dumping cement atop the plug, is one of the most common 2-run operations in the global oil industry. Running a S-f NeoBB above a setting tool in the same toolstring allows plug setting and cement placement in a single run.

S-f NeoBB can facilitate multi-functional toolstring operations that have never before been possible.

Contact NeoProducts for more information about conventional and S-f NeoBB.

POWER CAPABILITIES

- >> Setting tools
- >> Gamma guns
- >> Stroker tools
- >> Cutting tools
- >> Perforating guns
- >> Conventional NeoBBs

- >> Fill a S-f NeoBB System with a perf cleaning solvent/couple with a perforating gun/run to depth/ shoot thru the S-f NeoBB to fire the guns/lower the S-f NeoBB to the top of the perforated interval/ actuate the S-f NeoBB/pump into the well at the surface, therein dispersing and squeezing the contents of the bailer system into the perforations
- >> In a case where a SSD is refusing to latch with a shifting tool/fill a S-f NeoBB System with a strong acid or solvent/couple with a combo strokershifting tool/locate the S-f NeoBB adjacent to the SSD/actuate the S-f NeoBB/dispense the solvent by slowly raising the combo stroker-shifting tool up to the SSD/shoot thru the S-f NeoBB and make repeated attempts to latch and open the SSD while the SSD is soaking in the solvent
- >> Fill a S-f NeoBB System with a treatment chemical or plugging agent/couple the bailing system to a combo stroker-shifting tool/run to depth and open a SSD/locate the S-f NeoBB adjacent to the open SSD/actuate the S-f NeoBB/pump into the well, therein squeezing the contents of the bailer system into the open SSD
- >> Build a multilayered high ΔP composite platform atop a thru-tubing bridge plug using a S-f NeoBB and a conventional NeoBB/make a minimum number of bailer runs to achieve a ΔP capability of many thousands of PSI (capable of supporting thousands of feet of kill wgt fluid or 16 ppg cement slurry)
- >> Build a composite slurry plug using a S-f NeoBB and a NeoBB to achieve a plug with an exceptionally high resistance to gas and fluid channeling in perforated casing intervals (the resultant plug is ideal for water shut-off projects and patching leaking plugs).

Select-fire NeoBB Bailing System

Set a Plug & Dump Cement atop the Plug in the Same Run

NeoProducts.net









Standard Systems: 15,000 PSI & 350° F Vertical thru 60° Deviations

UHP/UHT Systems: 32,500 PSI & 500° F Vertical thru 60° Deviations

Non-corrosive Service & NACE MR 01-75 Compliant Systems Available

1%" thru 5" Run-in Diameter Systems are Readily Available



NeoHybridPDB®

Positive Displacement Bailer System

NeoHybridPDB Systems -The most advanced non-explosive PDB Systems available.

NeoHybridPDB Systems are a hybrid combination of the best features of conventional PDB systems and gravity bailer systems. Dump Bailer Actuators (DBAs) are the driving force of PDB Systems. NeoDBAs are more than twice as powerful as the DBAs in other same diameter PDB systems.

NeoDBAs impose high shear gradients in the cement slurry, accelerate the entire slurry column to high velocities and impart slurry column momentum that assures slurry placement at the desired service depth.

NeoHybridPDB Systems allow operators to run larger diameter x longer bailer systems, therein allowing operators to place as much as 50% more cement slurry per bailer run.

NeoHybridPDB Systems are more powerful, easier to use, and have shorter turn-around times than any other PDB Systems. NeoHybridPDB Systems provide superior performance and greater reliability compared to conventional PDB and gravity bailer systems.

Standard, sour service, and HPHT service models are available.

FEATURES

- >> Eliminates burdens related to use and transport of explosives
- >> Dumps reliably in well deviations up to 75°
- >> Easier to run and quicker turn-around than any other PDB systems
- >> Only expendables are 2 fl-oz of hydraulic fluid per run and o-ring seals between jobs
- >> Able to run larger diameter, longer bailer lengths and dump every time
- >> Accommodates bottom filling and top filling
- >> NeoHybridPDB Systems are available in the following sizes: 1-5/8", 1-3/4", 2", 2-1/8", 2-1/2", 3", 4" & 5" run-in diameters





Dump Bailer Actuator

Shear Piston Assembly



Permanant NeoPEP

Positive-Sealing Elastomeric Plug

A Permanent NeoPEP combined with a Composite Platform System can provide exceptionally high ΔP service from above the plug while providing normal ΔP service from below. The NeoPEP and Composite Platform are run on electric line, slickline, and coiled tubing.

Standard and NACE MR0175 Compliant Plugs are available. The plug & platform system can run thru small restrictions and set in casing up to 3¹/₂ times their run-in diameter.

Permanent and removable plug & platform systems are available. Removal of permanent systems from the wellbore requires milling and/or drilling operations. Removable systems use a Removable NeoPEP. Removal from the wellbore can be done with WL, slickline, tractor, and CT. Removal does not require milling, drilling or pumping operations.

High ΔP Plug & Platform Systems can be set in open hole, cased hole, and perforated intervals. NeoPEPs have robust anchor systems. Their elastomeric seals provide a differential pressure seal upon setting in casing.



APPLICATIONS

- >> Rigless recompletion to new zone
- >> Vertical through horizontal deviations
- >> Water production shut-off
- >> Isolate cross-flow thief zones
- >> Isolate depleted production zones
- >> Temporary isolation of gas zone
- >> Temporary isolation wellhead repairs

BENEFITS

- >> High success rate
- >> 1-day rigless operations result in substantial monetary savings
- >> Eliminates the burdens related to transport and use of explosives

FEATURES

- >> 100% Non-explosive isolation operations
 - > Non-explosive setting tool
 - > Non-explosive cement plug placement atop NeoPEP
 - > High shear bond cmt plug assures long-term isolation
- >> Up to 3-1/2 : 1 expansion ratio
- >> Robust, Bi-directional anchor system
- >> Instant pressure isolation

PRODUCTS

NeoProducts provides all the non-explosive service tools needed for a low cost 1-2 day isolation project;

- >> Positive-sealing Elastomeric Plug (NeoPEP)
- >> Non-Explosive Neo Hydrostatic Setting Tool (NeoHST)
- >> Non-Explosive Cement Dump Bailer System (NeoBB® and NeoHybridPDB®)
- >> High Shear Bond Cement Slurry Kits (17 20 ppg expanding NeoSuperSlurry®)



Removable NeoPEP

Positive-Sealing Elastomeric Plug

Removable NeoPEPs are thru-tubing mechanical bridge plugs that set in casing and can later be removed from the working wellbore. Standard and NACE MR0175 Compliant Plugs are available. NeoPEPs can be run and set on electric line, slickline, and coiled tubing.Removable NeoPEPs facilitate low cost operations that were never before possible.

Plug removal can be done on WL or slickline. Removal does not require a rig, pumping, milling or drilling. The plug anchor system is retrieved back to the surface while seal elements, thin anti-extrusion petals and plug remnants, fall to the bottom of the well.

NeoPEPs pass thru small restrictions and set in casing and open hole diameters up to 3¹/₂ times their run-in diameter.

NeoPEPs have robust anchor systems and elastomeric seals that provide immediate pressure isolation upon setting in casing. Like conventional cast iron bridge plugs, cement must be placed atop NeoPEPs if permanent long-term pressure isolation is required.

NeoPEPs can be set in open holes, cased holes, perforated casing intervals, and gravel packs.



APPLICATIONS

- >> Rigless zonal isolations and recompletions
- >> Isolate cross-flow & thief zones
- >> Water production shut-off
- >> X-mas tree repairs & replacements
- >> Wellhead repairs & replacements
- >> Tubing string repairs and replacements
- >> Base for frack jobs
- >> Base for chemical stimulation jobs
- >> Base for thru-tubing gravel packs
- >> T&A and P&A operations

BENEFITS

- >> Removable NeoPEPs facilitate low cost operations that were never before possible.
- >> Eliminates the burdens related to the presence of, transport, and use of explosives
- >> Removable NeoPEPs facilitate optimal exploitation of recoverable reserves (especially applicable to horizontal wells)

FEATURES

- >> Run thru small restrictions, set in casing and provide ΔP seal
- >> Removable from the working wellbore
- >> 100% Non-explosive isolation operations, using;
 - > Non-explosive setting tool
 - > Non-explosive cement plug placement atop NeoPEP
 - > High shear bond cmt plug assuring long-term isolation
- >> Up to 3-1/2 : 1 expansion ratio
- >> Robust Bi-directional anchor system
- >> Instant pressure isolation
- >> Standard and NACE MR0175 Compliant Plugs are available

PRODUCTS

NeoProducts provides all the non-explosive tools needed for zonal isolation projects;

- >> High-Expansion Positive-sealing Elastomeric Plug (NeoPEP)
- >> Neo Hydrostatic Setting Tool (NeoHST)
- >> Non-Explosive Dump Bailer Systems (NeoBB® & NeoHybridPDB®)
- >> High Shear Bond Cement Slurry Kits (17 20 ppg expanding NeoSuperSlurry®)



Permanant & Removable NeoPEP

Positive-Sealing Elastomeric Plug

1-3/4" NEOPEP SPECIFICATIONS (STANDARD AND SOUR SERVICE)						
Casing Size (inch)	Casing Weight (Ib./ft)	Casing ID	RIH Diameter	Maximum Pres- sure*	Temperature Range	
4	9.5-11	3.548-3.476 in. (90.1-88.3 mm)	1.75 in. (44.5 mm)	2,000 psid (138 bard)	ambient - 350° F ambient - 177° C	
4-1/2	11-15	4.00-3.83 in. (101.6-97.3 mm)	1.75 in. (44.5 mm)	2,000 psid (138 bard)	ambient - 350° F ambient - 177° C	
5	18-23	4.276-4.04 in. (108.6-102.7 mm)	1.75 in. (44.5 mm)	2,000 psid (138 bard)	ambient - 350° F ambient - 177° C	
5-1/2	14-26	5.012-4.55 in. (127.3-115.5 mm)	1.75 in. (44.5 mm)	2,000 psid (138 bard)	ambient - 350° F ambient - 177° C	
7	20-35	6.46-6.00 in. (164.0-152.5 mm)	1.75 in. (44.5 mm)	500 psid (34 bard)	ambient - 350° F ambient - 177° C	

*This value is the maximum pressure at the middle of the Casing ID range for the plug without cement at 250°F. The 1-3/4" NeoPEP can pass through a minimum restriction of 1.906" and greater ID.

2-5/8" NEOPEP SPECIFICATIONS (STANDARD AND SOUR SERVICE)					
Casing Size (inch)	Casing Weight (lb./ft)	Casing ID	RIH Diameter	Maximum Pressure*	Temperature Range
9-5/8	40-53-1/2	8.84-8.54 in. (224.5-216.9 mm)	2.63 in. (66.8 mm)	500 psid (34 bard)	ambient - 350° F ambient - 177° C

*This value is the maximum pressure at the middle of the Casing ID range for the plug without cement at 250°F. The 2-5/8" NeoPEP can pass through a minimum restriction of 2.75" and greater ID.

	2-1/8" NEOPEP SPECIFICATIONS (STANDARD AND SOUR SERVICE)						
Casing Size (inch)	Casing Weight (Ib./ft)	Casing ID	RIH Diameter	Maximum Pressure*	Temperature Range		
4-1/2	11-15	4.00-3.83 in. (101.6-97.3 mm)	2.12 in. (53.8 mm)	2,000 psid (138 bard)	ambient - 350° F ambient - 177° C		
5	15-23	4.41-4.04 in. (111.9-102.7 mm)	2.12 in. (53.8 mm)	2,000 psid (138 bard)	ambient - 350° F ambient - 177° C		
5-1/2	17-26	4.89-4.55 in. (124.2-115.5 mm)	2.12 in. (53.8 mm)	2,000 psid (138 bard)	ambient - 350° F ambient - 177° C		
6-5/8	24-28	5.92-5.79 in. (150.4-147.07 mm)	2.12 in. (53.8 mm)	1500 psid (103 bard)	ambient - 350° F ambient - 177° C		
7	20-35	6.46-6.00 in. (164.0-152.5 mm)	2.12 in. (53.8 mm)	1500 psid (103 bard)	ambient - 350° F ambient - 177° C		
7	38-41	5.92-5.82 in. (150.4-147.8 mm)	2.12 in. (53.8 mm)	1500 psid (103 bard)	ambient - 350° F ambient - 177° C		
7-5/8	26-39	6.97-6.63 in. (177.0-168.3 mm)	2.12 in. (53.8 mm)	1000 psid (69 bard)	ambient - 350° F ambient - 177° C		

*This value is the maximum pressure at the middle of the Casing ID range for the plug without cement at 250°F. The 2-1/8' NeoPEP can pass through a minimum restriction of 2.281" and greater ID.





NeoWideRange® Vented NeoT-TBP

NeoThru-Tubing Bridge Plug

NeoProducts[®] is proud to introduce a new advanced model of our Vented NeoWideRange Thru-tubing Bridge Plugs with performance and features that save time and money at the wellsite.

NeoSuperSlurry[®] is a high-shear-bond expanding cement formulation that is placed atop NeoWideRange T-TBPs. The combination of the two provides zonal isolation for the life of the well.



PRODUCTS

- >> Size 1 sets in 2-3/8" through 4" tbg.
- >> Size 2 sets in 4 $\frac{1}{2}$ " through 7" csg.

FEATURES

- >> The total number of WL runs is the same as the number for thru-tubing mechanical bridge plugs
- >> The wait-on-cement time is the same as WOC for thru-tubing mechanical bridge plugs
- >> Project time from nipple-up to nipple-down is the same as thru-tubing mechanical bridge plugs
- >> 1st wireline run combines setting the plug and placement of 1 ft of aggregate atop the plug
- All runs subsequent to the plug setting run are only cement slurry dump runs, (an automatic closing vent valve eliminates vent closing and interim wait-on-cement time)
- >> Pressure test 12 hrs after the last dump bailer run†
- >> Each NeoWideRange T-TBP sets in a wide range of casing sizes
- >> Bailer Stop allows precise setting depth determination on setting run
- >> Bailer Stop will not allow bailers to descend to the metal-petal-platform

†Use NeoProducts® Recommended Run-in Procedures & NeoSuperSlurry Cement Kits

NEOWIDERANGE T-TBPS, 7 ⁵ /8" & 9 ⁵ /8" NEOT-TBPS							
Plug Models*	Casing Size	T-TBP Run-In-Length	Run-In-Diameter				
Size 1	2 ³ / ₈ ", 2 ⁷ / ₈ ", 3 ¹ / ₂ ", 4"	108 in.	1 ⁵ / ₈ "				
Size 2	4 ¹ / ₂ ", 5", 5 ¹ / ₂ ", 6 ⁵ / ₈ ", 7"	176 in.	1 ⁵ / ₈ ", 1 ³ / ₄ "				
7 ⁵ /8"	7 ⁵ / ₈ "	176 in.	1 ⁵ / ₈ ", 1 ³ / ₄ "				
9 5/ ₈ "	9 5/ ₈ "	176 in.	2", 2 ¹ / ₄ ", 2 ¹ / ₈ "				

*Special Lengths & Run-in-Diameters Available, Insert an "NE" on the end of the Plug P/N shown above for Non-Explosive Deployed NeoT-TBPs.



Double Basket NeoT-TBP

NeoThru-Tubing Bridge Plug

NeoProducts[®] is proud to introduce a new model to our Vented NeoThru-Tubing Bridge Plug product line. It has Double Baskets; one traditional basket and the other inverted.

Neo Thru-Tubing Bridge Plugs (NeoT-TBP) are designed to pass through small restrictions and set in a larger ID casing/ tubing below the restriction. The NeoT-TBP utilizes a Metal Basket and with bridging material serves as a functional "Cement Platform". When used with NeoSuperSlurries[®] (highshear-bond expanding cement) placed atop the NeoT-TBPs, the combination of the two provides zonal isolation for the life of the well

Double Basket Design



APPLICATIONS

- >> The Double Basket T-TBP is mechanically pushed out of its' running sleeve
- >> The inverted basket guides any migrating fluid/gas into the vent system, not allowing it to contaminate the cement above
- >> The sliding sleeve vent system keeps the pressure equalized until it is closed
- >> The Bailer Stop allows precise setting depth determination and will not allow bailers to descend to the metalpetal-platform.
- >> Case Hardened Slips are set for a specific casing size and will work in casing grades up to Q-125
- >> Every plug is made to accommodate Neo Bow Spring Centralizers on the bottom of the plug
- >> Standard OD 1-5/8" (1.63") Plugs set in 4-1/2" 7-5/8" casings and 2" OD plugs are available for > 7-5/8" casing
- >> All 1-5/8" (1.63") OD plugs are 11'1" Long with Basket and Vent locations the same for every casing size
- Sustom Plugs available upon request include NACE compliant, CO2, Open Hole, as well as plugs with varying lengths, tubing and casing sizes



NeoPushPlug NeoPT

Rigless Recompletions

NeoPTs are used to effectively set the metal petal platform thru-tubing bridge plugs (NeoT-TBPs) at the desired plug setting depth. The NeoT-TBPs used with the NeoPT are also referred to as NeoPushPlugs.

The NeoPT is offered for use in two separate versions. The first NeoPT option uses explosives to initiate the plug setting process. The second NeoPT option uses hydrostatic pressure to initiate the plug setting process. The hydrostatic version is a non-explosive option for setting the NeoT-TBPs.

Hydrostatic NeoPTs use hydrostatic pressure at the plug setting depth to generate the force necessary to eject the plug and allow the anchors to bite into the casing. Severing the shear screw of the NeoT-TBP allows the plug to release from the NeoPT.

The pressure housing of the Hydrostatic NeoPT houses atmospheric pressure chambers. The Hydrostatic NeoPT utilizes the bottom hole pressure applied to the lower end of the pistons working against these atmospheric chambers. When the predetermined load is reached, the shear screw severs, releasing the ejected NeoT-TBP from the NeoPT.

NeoPTs are run on wireline, slickline, tractor, coiled tubing, and threaded pipe, and can set NeoT-TBPs in open hole, cased hole, perforated casing intervals, and gravel packs.

NeoPTs are not suitable for use in solid-bearing wellbore fluids (muds) or media intended to abate fluid loss.



PRODUCTS

NeoProducts provides all the non-explosive tools needed for a 1-day zonal isolation;

- >> Thru-tubing Bridge Plug (NeoT-TBP)
- >> Non-Explosive NeoPushTool (NeoPT)
- >> Non-Explosive Cement Dump Bailer System (NeoBB® or NeoHybridPDB®)

>> High Shear Bond Cement Slurry Kits (17 - 20 ppg expanding NeoSuperSlurry®)

NeoT-TBPs USED WITH THE NeoPT							
Plug P/N *	Casing Size	T-TBP Run-In-Length	Run-In- Diameter				
Size 1	2 ³ / ₈ ", 2 ⁷ / ₈ ", 3 ¹ / ₂ ", & 4"	108 in.	1 ⁵ / ₈ ", 1 ³ / ₄ "				
Size 2	4 ¹ / ₂ ", 5", 5 ¹ / ₂ ", 6 ⁵ / ₈ ", & 7"	176 in.	1 ⁵ / ₈ ", 1 ³ / ₄ "				
7 ⁵ /8"	7 ⁵ / ₈ "	176 in.	1 ⁵ / ₈ ", 1 ³ / ₄ "				
9 ⁵ /8"	9 5/ ₈ "	176 in.	2", 2 ¹ / ₈ ", 2 ¹ / ₄ "				

*Special Lengths & Run-in-Diameters Available, Insert an "NE" on the end of the Plug P/N shown above for Non-Explosive Deployed NeoT-TBPs.



Magna-Range High Expansion

The Magna Wide Range Bridge Plug is a specialty plug for running through restrictions and then setting securely in larger diameters below. These restrictions such as seating nipples often force tubing to be pulled before well service can take place. The Magna Range Bridge Plug eliminates this in many cases. Should the plug need to be removed, it is recommended to use a mill. A plug of such a broad setting range requires it to be made of mild steels and a milling process would be more acceptable.

FEATURES

- >> Electric wireline set
- >> Millable
- >> Sets in any grade casing including P-110
- >> For temporary or permanent service
- >> Ratcheting lock ring holds setting force
- >> Runs through restrictions to set in larger diameters



MAGNA WIDE RANGE BRIDGE PLUG SPECIFICATIONS						
PLUG		SETTING RANGE		SETTING TOOL		
Plug Models	O.D.	MIN.	MAX.	Gearhart Owen		
1406	1.406	1.610	1.995	1-1/2 Shorty		
1750	1.750	1.905	2.441	1-11/16 Multi-Stage		
1906	1.906	2.156	2.765	1-11/16 Multi-Stage		
2187	2.187	2.375	3.000	1-11/16 or 2-1/8 Multi-Stage		
2281	2.281	2.441	3.343	1-11/16 or 2-1/8 Multi-Stage		
2500	2.500	2.875	3.500	2-1/8 Multi-Stage		
2750	2.750	3.187	3.920	2-1/8 Multi-Stage		



Power Charge Setting Tool

The Power Charge Setting Tool (PCST) offers the capability to set plugs and packers requiring long setting strokes, and the Multi-stage System generates higher forces necessary for tubing patches. A self-bleeding compensation system allows for quick oil filling without the need for oil level gauges. A larger slow set power charge is used to compensate for the extra piston movement required for longer strokes. Once ignited, the generated high pressure gas migrates through the upper and lower pistons initiating the setting sequence. The hydraulic oil slowly bleeds out of the tool providing a cushioning effect. Once the required setting force is achieved, a shear stud breaks, releasing the PCST from the plug/packer.

POWER CHARGE SETTING TOOL SPECIFICATIONS							
Outer Diameter	Maximum Temp.	Maximum Pressure	Length	Stroke	Maximum Setting Force	Fishing Strength	Upper Head Connection
1.50 in.	350° F	15,000 psi	4.4 ft.	6.0 in.	15,000 lbf	25,000 lbf	1-3/16 in 12
[38 mm]	[177° C]	[103 MPa]	[1.34 m]	[15.2 cm]	[67 kN]	[111 kN]	"GO" box
1.75 in.	350° F	15,000 psi	6.3 ft.	10.5 in.	20,000 lbf	25,000 lbf	1-3/16 in 12
[44 mm]	[177° C]	[103 MPa]	[1.93 m]	[26.7 cm]	[89 kN]	[111 kN]	"GO" box

FEATURES

- >> Long stroke
- >> Self-bleeding compensating system
- >> Multi-Stage Systems are available to generate high forces necessary for Tubing Patches.

BENEFITS

- >> Ideal for plugs and packers requiring a long stroke
- >> Compensation oil level adjustments are necessary





Neo-Elite Cast Iron Bridge Plug

The Elite Bridge Plug has proven to be a product that can be depended on. It has excellent running characteristics and secure sets. The plug can be set on different types of wireline pressure setting tools. The Elite is designed for rapid drill-out while maintaining sufficient strength during the set. This plug sustains high pressures and temperatures.

FEATURES

- >> Electric wireline set
- >> Drillable
- >> Cast iron construction
- >> One piece slips hardened to depth of wicker only
- >> Sets in any grade casing including P-110
- >> Form-fitting metal back-ups prevent rubber extrusion
- >> For temporary or permanent service
- >> Ratcheting lock ring holds setting force



ELITE BRIDGE PLUG SPECIFICATIONS								
CA	ASING	PLUG		SETTING RANGE		SETTING TOOL		
Outer Diameter	Weight (Lbs/Ft.)	Part Number	O.D.	MIN.	MAX.	Baker	Gearhart Owen	
2-3/8"	3.3 - 5.9	000-1710-002	1.71"	1.867	2.107	05		
2-3/8"	3.3 - 5.9	000-1710-000	1.71"	1.867	2.107		1-11/16	
2-7/8"	6.4 - 6.5	000-2100-002	2.10"	2.280	2.563	05		
2-7/8"	6.4 - 6.5	000-2100-000	2.10"	2.280	2.563		1-11/16	
2-7/8"	6.4 - 6.5	000-2100-000	2.10"	2.280	2.563		2-1/8	
3-1/2"	5.7 - 10.2	000-2750-002	2.75"	2.867	3.258	05		
3-1/2"	5.7 - 10.2	000-2750-000	2.75"	2.867	3.258	10		
3-1/2"	5.7 - 10.2	000-2750-000	2.75"	2.867	3.258		1-11/16	
3-1/2"	5.7 - 10.2	000-2750-000	2.75"	2.867	3.258		2-1/8	
3-1/2"	12.7	000-2500-002	5.00"	2.625	2.750	05		
3-1/2"	12.7	000-2500-000	2.500"	2.625	2.750		1-11/16	
4"	5.6 - 14	000-3120-002	3.12"	3.340	3.732	10	2-1/8	
4-1/2"	9.5 - 16.6	000-3500-002	3.50"	3.826	4.090	10	3-1/2	
4-1/2"	9.5 - 13.5	000-3710-002	3.71"	3.920	4.560	10	3-1/2	
5"	11.5 - 21	000-3710-002	3.71"	3.920	4.560	10	3-1/2	
5-1/2"	13 - 25	000-4240-002	4.24"	4.580	5.047	20	3-1/2	
5-3/4"	22.5 - 25.2	000-4240-002	4.24"	4.580	5.047	20	3-1/2	
6"	14 - 26	000-4750-002	4.75"	5.140	5.595	20	3-1/2	
6-5/8"	34	000-4750-002	4.75"	5.140	5.595	20	3-1/2	
6"	10.5 - 12	000-5340-002	5.34"	5.595	6.366	20	3-1/2	
6-5/8"	17 - 34	000-5340-002	5.34"	5.595	6.366	20	3-1/2	
7	23 - 40	000-5340-002	5.34"	5.595	6.366	20	3-1/2	
6-5/8"	17 - 22	000-5610-002	5.61"	5.989	6.655	20	3-1/2	
7"	17 - 35	000-5610-002	5.61"	5.989	6.655	20	3-1/2	
7-5/8"	20 - 39	000-6090-002	6.09"	6.625	7.263	20	3-1/2	
8-5/8"	24 - 49	000-6960-002	6.96"	7.511	8.248	20	3-1/2	
9-5/8"	29.3 - 53.5	000-7710-002	7.71"	8.435	9.063	20	3-1/2	
10-3/4"	54 - 81	000-8710-002	8.71"	9.250	9.784	20	3-1/2	
10-3/4"	32.7 - 51	000-9500-002	9.50"	9.850	11.150	20	3-1/2	
11-3/4"	38 - 60	000-9500-002	9.50"	9.850	11.150	20	3-1/2	
13-3/8"	77 - 102	000-1156-002	11.56"	11.633	12.464	20	3-1/2	
13-3/8"	48 - 72	000-1200-002	12.00"	12.347	12.715	20	3-1/2	
16	65 - 109	000-1425-002	14.25"	14.688	15.250	20	3-1/2	
18-5/8"	76 - 96.5	000-1725-002	17.25"	17.655	18.730	20	3-1/2	
20	133 - 169	000-1725-002	17.25"	17.655	18.730	20	3-1/2	



Cast Iron Bridge Cement Retainer

This Cement Retainers combine outstanding features with design simplicity. It has a compact design and small O.D. for fast running. The Cement Retainer is economical, dependable and unsurpassed by any similar retainer on the market. They are available in Ball Check Model or a Poppet Valve models.

There are no springs, latches or sliding valves to complicate the operation. A simple ball-check or poppet valve acts as a one-way valve to prevent back flow of fluids from the formation up the well.

The internal surface of the retainer is finished to receive a seal nipple for cementing. The ball-check or poppet valve is located at the bottom. The retainer sustains high pressure and temperatures.

FEATURES

- >> Electric wireline set
- >> Drillable
- >> Cast iron construction
- >> One piece slips hardened to depth of wicker only
- >> Sets in any grade tubing including P-110
- >> Form-fitting metal back-ups prevent rubber extrusion
- >> For temporary or permanent service
- >> Ratcheting lock ring holds setting force



ELITE BRIDGE PLUG SPECIFICATIONS							
С	ASING	RETAINER	SETTING RANGE		SETTING TOOL		
Outer Diameter	Weight (Lbs/Ft.)	O.D.	MIN.	MAX.	Baker	Gearhart Owen	
2-3/8"	3.3 - 5.9	1.71"	1.867	2.107	05		
2-3/8"	3.3 - 5.9	1.71"	1.867	2.107		1-11/16	
2-7/8"	6.4 - 6.5	2.10"	2.280	2.563	05		
2-7/8"	6.4 - 6.5	2.10"	2.280	2.563		1-11/16	
2-7/8"	6.4 - 6.5	2.10"	2.280	2.563		2-1/8	
3-1/2"	12.7	2.50"	2.625	2.750	05		
3-1/2"	12.7	2.50"	2.625	2.750		1-11/16	
3-1/2"	5.7 - 10.2	2.75"	2.867	3.258	05		
3-1/2"	5.7 - 10.2	2.75"	2.867	3.258	10		
3-1/2"	5.7 - 10.2	2.75"	2.867	3.258		1-11/16	
3-1/2"	5.7 - 10.2	2.75"	2.867	3.258		2-1/8	
4"	5.6 - 14	3.12"	3.340	3.732	10	2-1/8	



Retrievable Tbg Bridge Plug

The Retrievable Bridge Plugs (RBPs) are wireline set, wireline retrieved, packer-type bridge plugs capable of holding a differential pressure rating of 10,000 PSID from above or below, with exception to the 2-7/8" RBP, which is rated to 5,000 PSID from above or below. RBPs are used as a temporary bridge plug for stimulation jobs, fracturing, cementing, casing pressure tests, wellhead replacement, and zone isolation. RBPs use standard wireline or hydraulic setting tools

FEATURES

- >> Wireline set/retrieve
- >> 10,000 PSID differential pressure rating above and below the plug (lab testing verified differential pressure rating) * 5,000 PSID for the 2-7/8" size (all other sizes are rated to 10,000 PSID)
- >> Bi-directional slips
- >> Equalization feature prevents premature release against differential pressure
- >> Available with Nitrile, HSN, Viton, and Aflas seal elements.



RETRIEVABLE BRIDGE PLUG SPECIFICATIONS							
Size (in.)	CASING Weight (Lbs/Ft.)	SETTING RANGE (in.)	TOOL O.D. (in.)	TOP CONNECTION			
2-7/8"	6.5	2.441	2.250	11/16-16-UN PIN			
3-1/2"	7.7 - 10.2	2.922 - 3.068	2.700	5/8-18 UNF PIN			
A ²²	9.5 - 11.0	3.476 - 3.548	3.250	5/8-18 UNF PIN			
4	10.46 - 12.95	3.340 - 3.476	3.187	5/8-18 UNF PIN			
4-1/2"	9.5 - 13.5	3.920 - 4.090	3.750	1.000-8 UNC PIN			
	13.5 - 15.1	3.826 - 3.920	3.650	1.000-8 UNC PIN			
	15.1 - 16.6	3.754 - 3.826	3.625	1.000-8 UNC PIN			
E.,	11.5 - 15.0	0 4.408 - 4.560	4.125	1.000-8 UNC PIN			
5	18.0 - 21.0	4.154 - 4.276	3.969	1.000-8 UNC PIN			
	13.0 - 20.0	4.778 - 5.156	4.625	7/8-14 UNF PIN			
5-1/2"	20.0 - 23.0	4.670 - 4.778	4.500	7/8-14 UNF PIN			
	23.0 - 26.0	4.548 - 4.670	4.375	7/8-14 UNF PIN			
7	17.0 - 26.0	6.276 - 6.538	5.969	7/8-14 UNF PIN			
/	26.0 - 32.0	6.094 - 6.276	5.875	7/8-14 UNF PIN			



NeoExtremePlug

Extreme Expansion/High Pressure Differential Bridge Plugs

Like all bridge plugs, NeoProducts[®] recommends a cement plug be placed atop NeoExtremePlugs to assure long-term anchoring and pressure isolation.

FEATURES

- >> NeoExtremePlugs are rated to 10,000 psid** @ 250° F. They provide greater expansion ratio and higher differential pressure ratings when compared to all other same size pressure-rated bridge plugs.
- >> NeoExtremePlugs provide precision expansion and centralization of the captured Bi-Directional Anchor System and Metal-to-Metal Anti-Extrusion Diaphragm System thus ensuring maximum anchoring strength and long-term seal integrity.
- >> The Metal-to-Metal Anti-Extrusion Diaphragm Systems is designed to withstand severe combinations of extreme expansions and high differential pressures.
- >> NeoExtremePlugs are available in packer and cement retainer models.*
- >> NeoExtremePlugs are available for general and corrosive service conditions with Nitrile (NBR), Viton (FKM), and Aflas (TFEP) seal systems.*

* Contact NeoProducts for availability and lead time information.

** These are nominal ratings @ 250° F where the set diameter is in the middle of the setting range. Ratings assume circular casing IDs with good ID surface conditions and good wellbore sealing conditions. Contact NeoProducts for specific differential pressure ratings based upon; direction of differential pressure, combinations of pressure cycling, BHT, casing size and grade, the presence of wellbore elements that will diminish seal integrity, etc.

Contact NeoProducts for more information on NeoExtreme-Plugs. Extreme Expansion Bi-Directional Anchor System

Metal-to-Metal Anti-Extrusion Diaphragm System

High Expansion Packer System

Metal-to-Metal Anti-Extrusion Diaphragm System



leoProducts

NOMINAL NEOEXTREMEPLUG SERVICE RATINGS						
Plug Models	Tool Outer Diameter (OD)	Minimum Restriction	Setting Range	Maximum Service Temperature	**Maximum ΔP	
M210	2.10"	2.19" Dia.	2.35" – 3.26"		10,000 psid (680 bar) At 250 ° F Middle Setting Range	
M265	2.65"	2.74" Dia.	2.99" – 4.38"	350° F		
M300	3.00"	3.09" Dia.	3.25" – 5.00"	(177° C)		
M400	4.00"	4.09" Dia.	4.25" – 6.38"			



NeoUltraPlug

High Expansion/High Pressure Differential Bridge Plugs

FEATURES

- >> NeoUltraPlugs are rated to 10,000 psid at 250° Fahrenheit.* They provide higher differential pressure ratings when compared to all other same size pressure-rated wide range bridge plugs
- NeoUltraPlugs provide controlled centralization of the >> Bi-Directional Anchor System and the Metal-to-Metal Anti-Extrusion Diaphragm System thus ensuring maximum anchoring strength and long-term seal integrity
- The Metal-to-Metal Anti-Extrusion Diaphragm Systems is >> designed to withstand severe combinations of high expansions and high differential pressures
- NeoUltraPlugs are available in packer and cement retainer >> models.**
- >> NeoUltraPlugs are available for general and corrosive service conditions with Nitrile (NBR), Viton (FKM), and Aflas (TFEP) seal systems.**

Like all bridge plugs, NeoProducts[®] recommends that a cement plug be placed atop NeoUltraPlugs to assure long-term anchoring and pressure isolation.

* Contact NeoProducts for availability and lead time information.

** These are nominal ratings at 250° Fahrenheit where the setting diameter is in the middle of the setting range. Ratings assume circular casing IDs with good ID surface conditions and good wellbore sealing conditions. Contact NeoProducts for specific differential pressure ratings based upon; direction of differential pressure, combinations of pressure cycling, BHT, casing size and grade, the presence of wellbore elements that will diminish seal integrity, etc.

Ultra Metal-to-Metal Anti-Extrusion System **eoProducts** System

Metal-to-Metal Anti-Extrusion Diaphragm

Expansion **Bi-Directional** Anchor System

Diaphragm

High Expansion Packer System

NOMINAL NEOULTRAPLUG SERVICE RATINGS							
Plug P/N	Tool Outer Diameter (OD)	Minimum Restriction	Setting Range	Maximum Service Temperature	**Maximum ΔP		
0303-088-01	.88"	.97" Dia.	1.00 - 1.25"	350° F (177° C)	10,000 psid (689 bar) At 250 ° F Middle Setting Range		
0303-113-01	1.13"	1.18" Dia.	1.25 – 1.56"				
0303-150-01	1.50"	1.59" Dia.	1.75 – 2.10"				
0303-175-01	1.75"	1.84" Dia.	1.99 – 2.44"				
0303-219-01	2.19"	2.28" Dia.	2.44 - 3.07"				
0303-300-01	3.00"	3.09" Dia.	3.25 – 4.15"				
0303-338-01	3.38"	3.50" Dia.	3.63 - 4.65"				
0303-363-001	3.63"	3.75" Dia.	3.88 – 5.25"				



APPENDIX

Morphology of a Dump-Bailed Cement Plug

By Dr. J.V. Carisella



Dump bailed plugs are not monolithic. Their morphology is similar to what you see here.

Assuming a dump bailed plug is properly placed in a wellbore, its overall length determines its pressure isolation life span and its anchoring life span. Shorter plugs yield shorter pressure isolation life spans and shorter anchoring life spans.

Hydraulic seals in dump bailed cement plugs deteriorate over time and can result in gradually increasing leaks from below. These leaks can be mistaken as naturally occurring water cut from the production zone.

Visit NeoProducts.net. Our Plug Length Calculator recommends plug lengths that yield long-term anchoring and long-term hydraulic isolation that outlasts the life span of your production zone. Wellbore deviation at the plug depth has a very strong influence on pressure isolation and anchoring, refer to SPE Publication #24574. Essential plug lengths increase significantly with increased wellbore deviation.

Our recommended plug lengths are based on science, knowledge, and practical experience from tens of thousands of successful long-term pressure isolation jobs.



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