NonExplosiveOilfield Products

well intervention products & services




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NeoProducts

about us

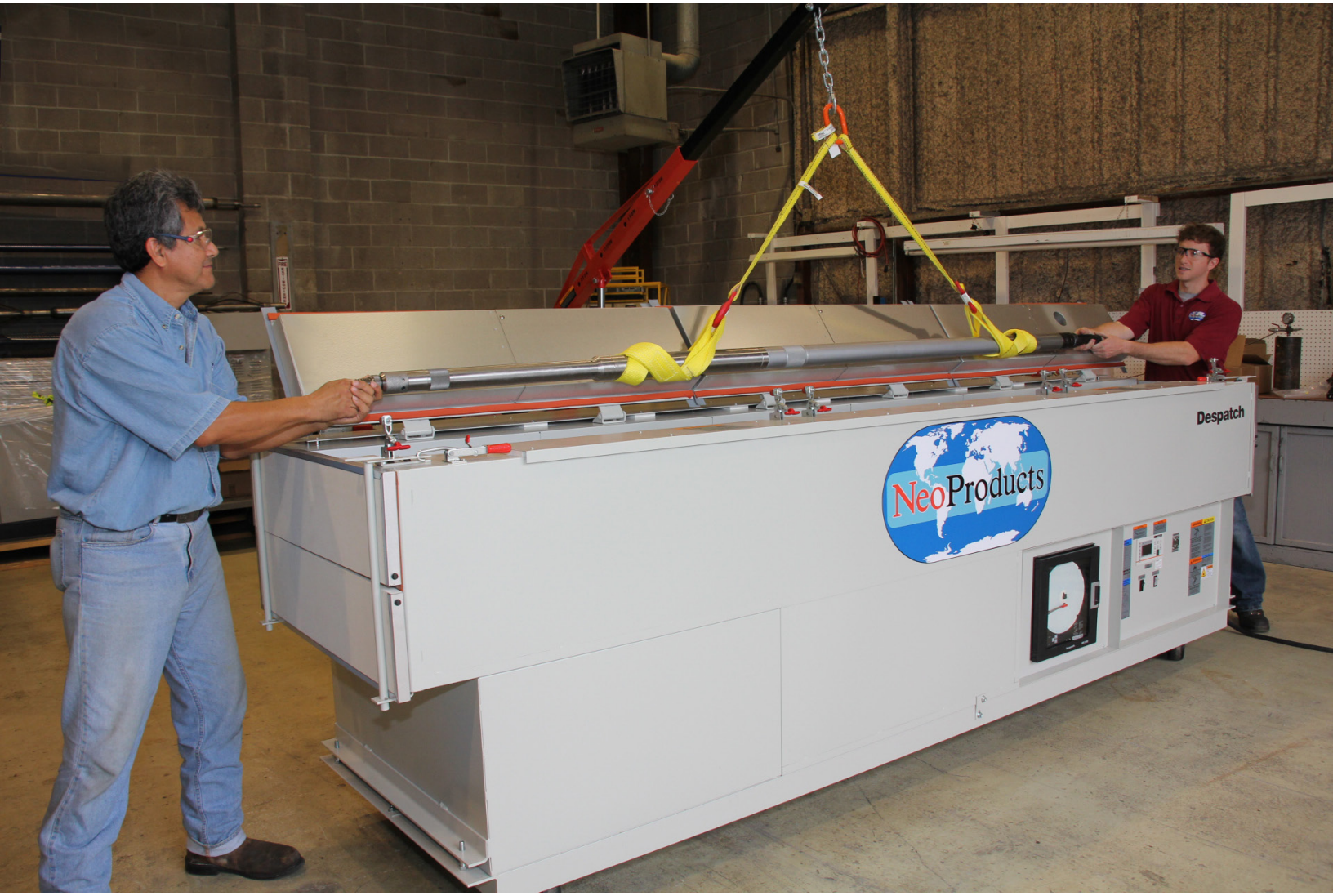
NeoProducts offers well intervention products and services to the Global Oil Industry. Some products are tried and proven, while other products are new novel technologies that provide significant value and benefits to the Global Oil Industry.

Our company provides safe, reliable products with around-the-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


Despatch
NeoProducts

products

NeoNEST

Electronic Non-Explosive Setting Tools

NeoNESTs are "Ready-to-GO" wholly integrated non-explosive setting tools.
Model 10 & 20 NeoNEST service ratings and adapters are the same as Model 10 & 20 Baker Setting Tools.

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

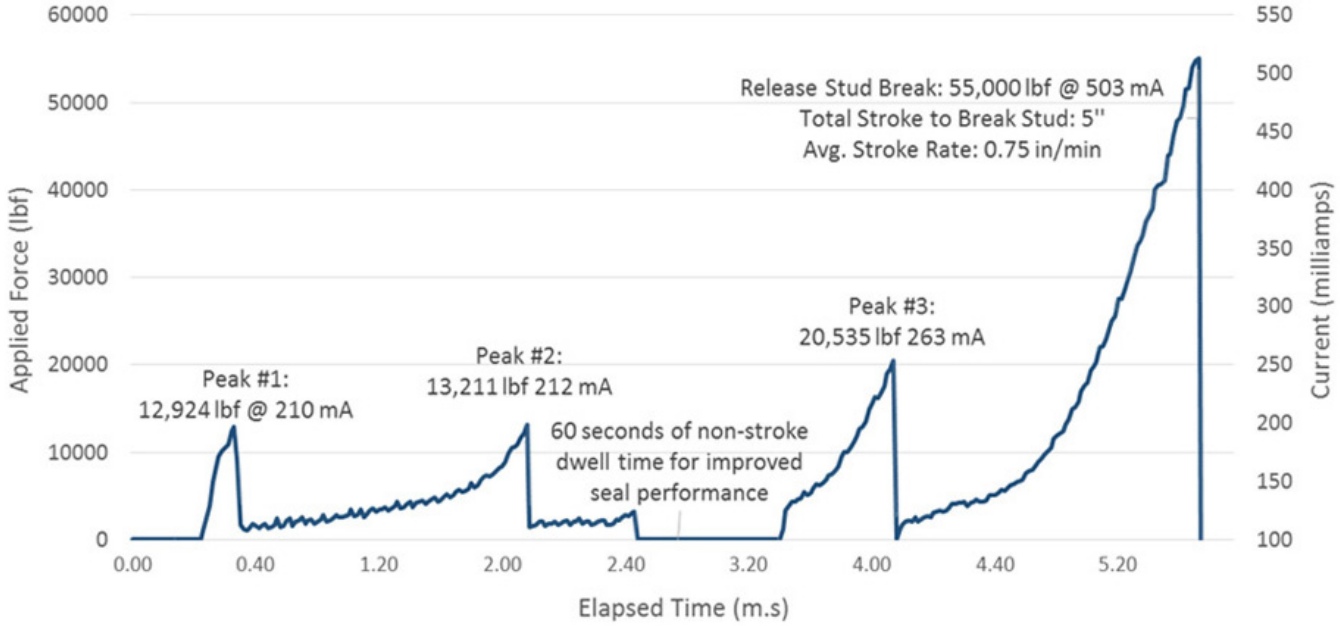
MODELS:

- 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
- UHP/UHT Service (pressures to 20,000 psig and temperatures to 420° F (215° C))

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

ON-SITE NEONEST SETTING CYCLE REPORT
SETTING TOOL OPERATION: 7-5/8" CIBP
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 availabilty 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

NeoNESTs are Patent Protected

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

STANDARD SERVICE MODELS

NeoNEST P/N	Max Service Pressure	Max Service Temp	Max Applied Load Capability	Power Requirement @ Head	Run-in Diameter	NeoNEST Make-up Length	NeoNEST Weight
9100-010-114 G6	15,000 PSIG	350° F 177° C	35,000 LBF @ 6" STROKE	275 VDC & 700 MILLIAMP	2.75"	140-½"	132 LBMS
9100-020-124 G6	15,000 PSIG	350° F 177° C	60,000 LBF @ 10" STROKE	275 VDC & 700 MILLIAMP	3.81"	151-¼"	250 LBMS

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NeoHST

Hydrostatic-Driven Non-Explosive Setting Tools

NeoHSTs are used to effectively set the permanent and releasable 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.

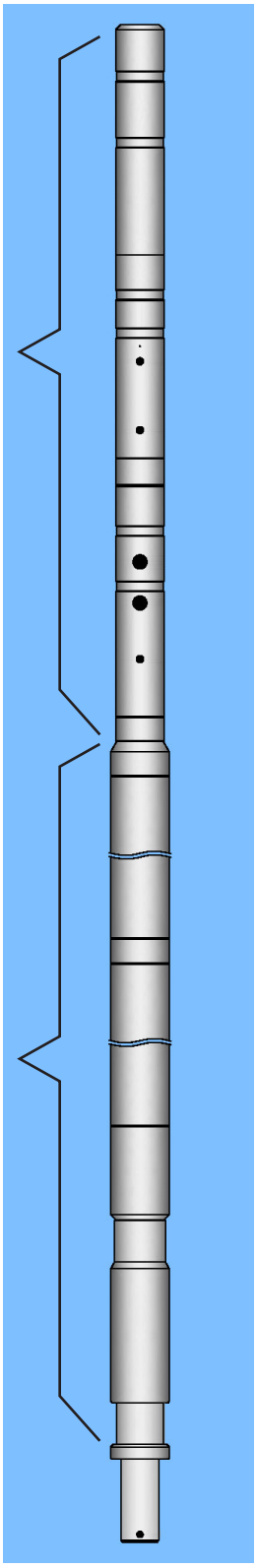
The pressure housing of the NeoHST houses atmospheric pressure chambers. The first and second stages utilize the bottom hole pressure applied to the lower end of the pistons working against these atmospheric chambers. The moving pistons are driven up into the chamber drawing the plug mandrel into the 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.

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

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

NeoHSTs are run on wireline, slickline, tractor, coiled tubing, and threaded pipe, and 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.**



HYDROSTATIC DRIVEN NON-EXPLOSIVE SETTING TOOLS (NEOHSTS) FOR USE WITH NEOPEPS

Run-in Diameter	Setting Tool Stroke	Maximum Service Temperature	Maximum Service Pressure	Maximum Setting Tool Force
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)	15,000 psia (1,034 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)	15,000 psia (1,034 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)

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NeoPEP

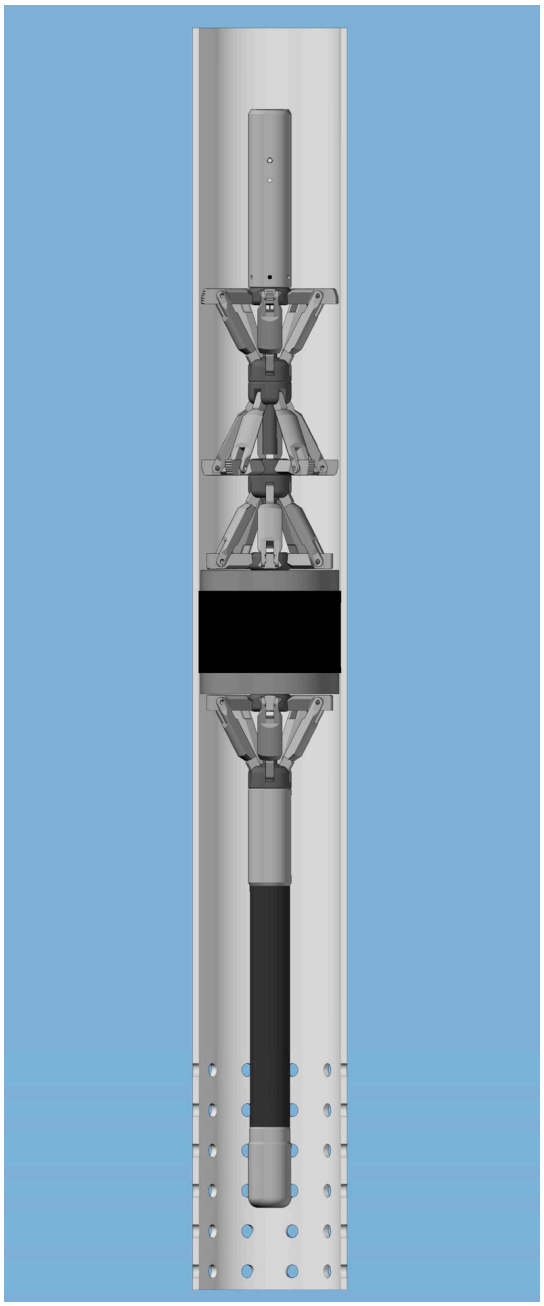
Positive-sealing Elastomeric Plug

NeoPEPs are used in rigless, zonal isolations and recompletions. They can pass thru small restrictions and set in casing diameters up to 3½ times their run-in diameter.

NeoPEPs have robust anchor systems and elastomeric seals that provide immediate pressure isolation upon setting in casing. Like cast iron bridge plugs, cement is placed atop the NeoPEP to assure long-term zonal isolation. NeoPEPs are drillable.

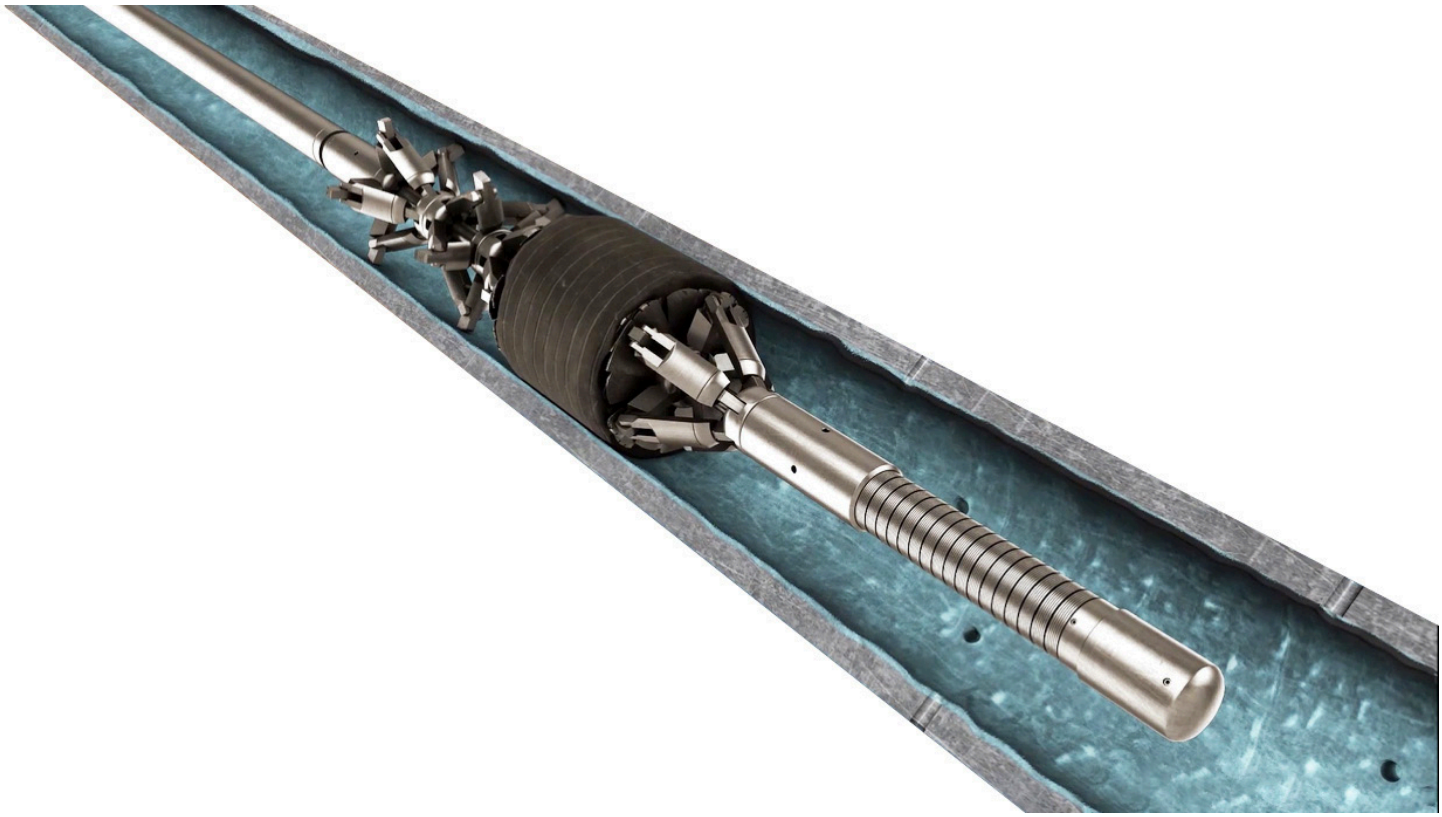
NeoProducts provides all the non-explosive tools needed for a 1-day zonal isolation;

- High-Expansion Positive-sealing Elastomeric Plug (NeoPEP)
- NeoLong-Stroke Setting Tool (NeoHST)
- Non-Explosive Dump Bailer Systems (NeoBB and NeoHybridPDB)
- High Shear Bond Cement Slurry Kits (17 - 20 ppg expanding NeoSuperSlurry)



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
- Releasable/removable base for sand plug
- Temporary isolation – wellhead repairs



Permanent NeoPEP

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NeoPEP

Positive-sealing Elastomeric Plug

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

Releasable NeoPEPs are typically run in temporary abandonments and are commonly run in horizontal wells.

Sweet and corrosive service plugs and supporting tools are available. Permanent and releasable NeoPEPs are also available.

Releasable/Retrievable NeoPEP

FEATURES:

- 100% Non-explosive isolation operations
  - o Non-explosive setting tool
  - o Non-explosive cement plug placement atop NeoPEP
  - o High shear bond cmt plug assures long-term isolation
- Up to 3-½ : 1 expansion ratio
- Robust, Bi-directional anchor system
- Instant pressure isolation

BENEFITS:

- High success rate
- 1-day rigless operations result in substantial monetary savings
- Eliminates the burdens related to transport and use of explosives
- Releasable NeoPEPs facilitate optimal exploitation of recoverable reserves (especially applicable to horizontal wells)

High ΔP Releasable/Retrievable NeoPEP

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NeoT-TBP

Explosive & Non-Explosive Deployed Thru-Tubing Bridge Plug

T-TBPs pass thru small diameter restrictions and can set in diameters up to 8 times their run-in diameter. Cement slurry is placed atop the plug to achieve long-term pressure isolation.

Over 30,000 wireine-run T-TBPs have been successfully run throughout the global oil industry.

NeoWideRange T-TBPs include patent pending features making them the best available T-TBPs.

There are two sizes of NeoWideRange T-TBPs:
- Size 1 sets in 2 $^{3}/_{8}$" through 4" tbg.
- Size 2 sets in 4 ½" through 7" csg.

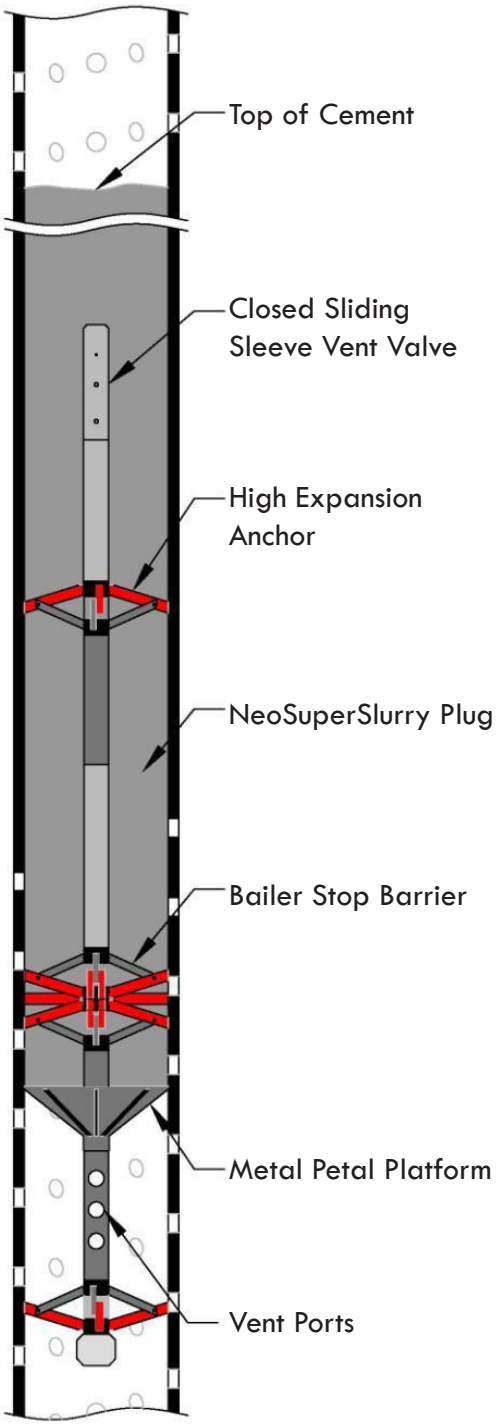
NeoWideRange T-TBPs can be run on wireline, slickline and coil tubing. They provide a platform upon which NeoSuperSlurry cement is placed. The cement sets and bonds to csg, therein, providing a long-term high ΔP casing plug.

NeoWideRange T-TBPs provide zonal isolation in: perforated intervals, saltwater wellbore fluids, hot dry natural gas, and crude oil and gas condensate.

NeoProducts provides detailed Recommended Run-in Procedures to assist Project Engineers and Field Personnel.

NeoSuperSlurries, high-shear-bond expanding cement formulations, are placed atop NeoWideRange T-TBPs. NeoSuperSlurries are available in 17ppg, 18ppg & 20ppg slurry weights. The combination of the two provides zonal isolation for the life of the well.

FEATURES:
- Each NeoWideRangeT-TBP sets in a wide range of casing sizes.
- Successful setting and anchoring is verified on the setting run.
- Bailer Stop allows precise setting depth determination on setting run.
- Bailer Stop will not allow bailers to descend to the Metal-Petal-Platform.



NEOWIDERANGE T-TBPS, 7-5/8" & 9-5/8" NEOT-TBPS

Plug P/N *	Casing Size	T-TBP Run-In-Length	Run-In-Diameter	Minimum Restriction
0163-238-400-001-S1	2 3/8", 2 7/8", 3 1/2", & 4"	108 in.	1 5/8"	1.719"
0163-450-700-001-S2 0175-450-700-001-S2	4 1/2", 5", 5 1/2", 6 5/8", & 7"	176 in.	1 5/8" 1 3/4"	1.719" 1.844"
0163-763-001 0175-763-001	7 5/8"	176 in.	1 5/8" 1 3/4"	1.719" 1.844"
0200-963-001 0213-963-001 0225-963-001	9 5/8"	176 in.	2" 2 1/8" 2 1/4"	2.094" 2.219" 2.344"

*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.

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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.

* 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.

** Contact NeoProducts for availability and lead time information

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 (680 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”		

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NeoExtremePlug

Extreme Expansion/High Pressure Differential Bridge Plugs

FEATURES:

- NeoExtremePlugs are rated to 10,000 psid at 250° Fahrenheit.* They provide greater expansion ratio and higher differential pres sure 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**

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

* These are nominal ratings at 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 availability and lead time information.

NOMINAL NEOEXTREMEPLUG SERVICE RATINGS

Plug P/N	Tool Outer Diameter (OD)	Minimum Restriction	Setting Range	Maximum Service Temperature	**Maximum ΔP
0304-210-01	2.10”	2.19” Dia.	2.35” – 3.26”	350° F (177° C)	10,000 psid (680 bar) At 250 ° F Middle Setting Range
0304-265-01	2.65”	2.74” Dia.	2.99” – 4.38”		
0304-300-01	3.00”	3.09” Dia.	3.25” – 5.00”		
0304-400-01	4.00”	4.09” Dia.	4.25” – 6.38”		

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NeoSuperSlurry

Dump Bailer Cement Slurry Systems

GRAY LID:

P/N 0105-350-017*
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.

GREEN LID:

P/N 0105-300-017*
NeoSlurry System
70° - 300° F Service Temp Range

The dry blend pail in this kit is easily identified by its Green Lid.

This 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 17 ppg Non-Expanding slurry.

NeoSlurry 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 hr compressive strength and shear bond strength for the NeoSlurry blend in the kit.

*Insert an "E" on the beginning of the P/N shown above for export cement kits

ALL CEMENT 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. The part number for the NeoSuperSlurry Water Pail is 0105-000-000. Note: The NeoSuperSlurry Water Pail is sold separately for export cement kits.

RED LID:

P/N 0105-450-017*
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 LID:

P/N 0105-300-020*
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.

BLUE PAIL:

P/N 0105-000-000
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.

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Modifier Packs

Dump Bailer Cement Slurry Accessories

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

P/N • 0103-225-017
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.

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

P/N • 0103-350-017
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.

SHORTEN SETTING TIMES

P/N • 0101-225-017
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, i.e., set-up time of 2 to 3 hours. This modifier pack will also cause the plug to achieve its normal 24-hour strength in 17 to 19 hours.

INCREASE BOND STRENGTH TO CASING AT LOW TEMPERATURES

P/N • 0102-225-017
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.

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

P/N • 0103-400-017
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 CRUDE OIL

P/N • 0100-450-090
NeoCasingCleaner
70° - 450°F Service Temp Range

NeoCasingCleaner is composed of a 4 gallon batch of 10.0 ppg $CaCl_2$ 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.

DUMPING CEMENT SLURRY IN BROMIDE & HIGH CHLORIDE ION CONCENTRATIONS

P/N • 0104-350-017
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 CO_2 gas concentrations.

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Mixers & Bottom Fill Systems

Dump Bailer Cement Slurry Accessories

NEOSLURRYMIXINGUNIT

NeoSMU
P/N: 0100-999-001

FEATURES:

- 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 - 6½ 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

NEOBOTTOMFILLSYSTEM
(Pump, Hose, And C-Clamp)

NeoBottomFill Pump Unit
P/N 0100-998-001

NeoBottomFill Hose & C-Clamp Attachment
P/N 0100-998-011

FEATURES:
- Air Driven Slurry Pump Design
- 3 GPM Fill Rate
- Compressor Requirements: 20 cfm @ 75 psi
- No guessing on how much slurry is in the bailer
- No air bubbles to blow cement out of the bailer
- Easy to maintain

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NeoBB

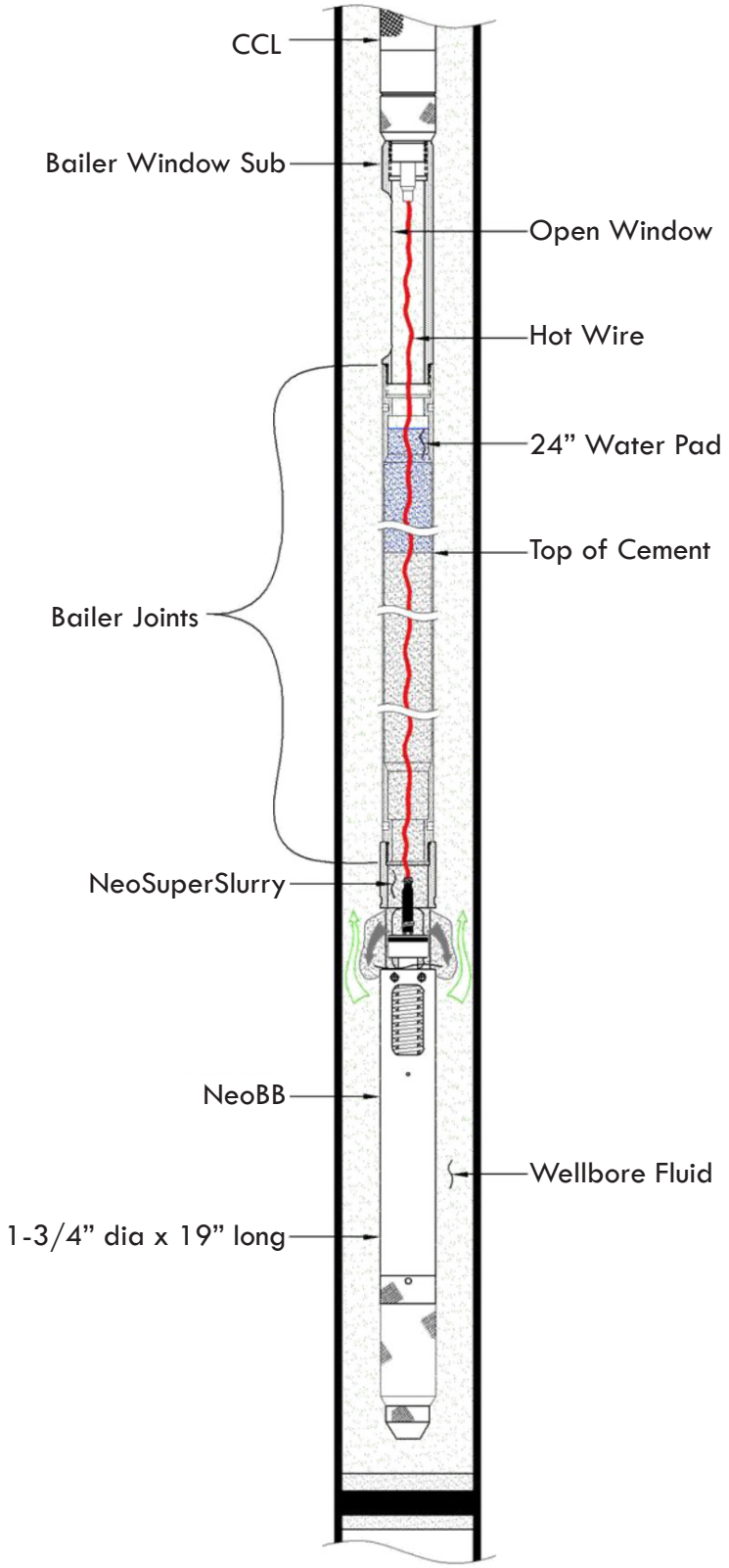
Gravity Bailer System

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 300 - 350 milliamps. Standard and HPHT Service Models are available for sweet, sour and acid gas service conditions.

NeoBBs assure non-explosive dump bailing of cement and sand slurries.

FEATURES & BENEFITS:

- Eliminates burdens related to use and transport of explosives
- 20 – 30 bailer runs between simple NeoBB redressing
- Exceptionally simple to run and maintain.
- Takes 2 minutes to reset between runs
- Expendables are 2 fl-oz of hydraulic fluid per run plus one rubber boot and electrical contact per project
- NeoBBs are available in 1-5/8", 1-3/4", 2-1/2" & 3" Run-in Diameter Models
- NeoBBs w/ NeoX-overs support 1-5/8" thru 5" Bailer Systems
- NeoBBs accommodate bottom filling and top filling operations
- NeoBBs can be run on wireline and slickline



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NeoPDB

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 dia 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 dia 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 & BENEFITS:

- 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: 1-3/4", 2", 2-1/8", 2-1/4", 2-1/2", 3", 4" & 5" run-in diameters

Dump Bailer Actuator

Shear Piston Assembly

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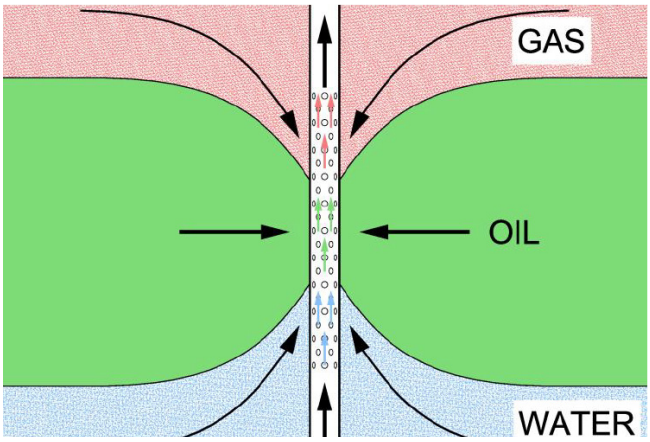
NeoQuickPlug

Quickset Epoxy Slurry System

NeoQuickPlug is a quickset epoxy slurry system that can be pressure tested 5 hours after placement. It bonds to casing, gravel pack sand, and earthen formations. It also performs as a production shutoff agent. As a shutoff agent it, flows into perforations, micro-fissures, micro-annuli, and permeable earthen formations. It hardens to become an impermeable barrier. Production can be resumed with minimal lost time.

NeoQuickPlug is conveyed and placed via wireline, slickline, and coiled tubing, using a NeoBB System and/or NeoHybridPDB System.



Coning Schematic

APPLICATIONS:

- Quick setting, high shear bond plugging agent in casing and open hole.
- Shutoff unwanted production, such as;
    - o flow from micro-fissures and behind pipe micro-annuli,
    - o water production in open hole and gravel packed wells,
    - o water coning from above and below oil producing zones,
    - o gas coning from above and below oil producing zones, and
    - o water and/or gas flow from middle of perf intervals (this is done in combination with a flow-thru NeoThru-Tubing Casing Packer)

BENEFITS:

- Minimum production downtime, reinstate production in shortest possible time.
- As shutoff agent;
    - o Eliminates costs of processing and dispensing of unwanted water and gas production
    - o Water shutoffs are high success rate low-cost operations, especially when compared with rig workovers
    - o Water shutoffs frequently result in higher hydrocarbon production rates,
    - o Water shutoffs frequently result in higher overall reservoir recovery values

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