



Problem Solving Technology
... at work!

"In 30 years I've never seen anything perform like ProOne Drilling Fluid Treatment!" - Major Operator





Downhole Drilling Fluid Treatment

World Class Performance Under Extreme Conditions

ProOne Downhole Drilling Fluid Treatment is designed to reduce heat and friction under the most extreme conditions:

HPHT • Long Laterals • Deviated Wells • Doglegs • High Torque

which is why this drilling mud additive has been proven to offer extraordinary results in horizontal and vertical drilling operations. And it's biodegradable!



BOTTOM LINE BENEFITS:



- ✓ INCREASES LUBRICITY
- ✓ OVER 70% REDUCTION IN FRICTION
- ✓ IMPROVES RATE OF PENETRATION
- ✓ 20-50% REDUCTION IN TORQUE & DRAG
- ✓ EASIER STEERING AND SLIDING
- ✓ LESS CORROSION AND WEAR
- ✓ FREES STUCK PIPE
- ✓ EXTENDS THE PERFORMANCE OF MUD PUMPS, MUD MOTORS, & DRILL BITS

Directions: **Total System Treatment = 3%**

Introduce at a ratio of 5% to the volume through slug pit concentration, then treat the entire pit at 3%.

(Example: 800 barrel mud pit will use 18 drums of ProOne)

1) 105 Barrel Slug Pit
 $105 \times 42 \text{ gal} = 4,410 \text{ gallons} \times 5\% = 220.5 \text{ gal}$
 $220.5 \text{ gallons} / 55 \text{ gallons} = 4 \text{ Drums ProOne}$

2) Repeat above process with 5% process in the slug-pit 4 times for a total of 16 drums, then add remaining 2 drums to the total system totaling 18 drums (3%) of ProOne to the total 800 barrel pit.



How It Works

On a bench cross axis friction machine test, bearings are subjected to pressure from a spinning race. Using a leading downhole drilling fluid without ProOne's exclusive XPL+®, the bearing sustains severe damage at only 4,000 pounds per square inch of pressure. With XPL+ technology, there is minimal damage at 200,000 per square inch of pressure...over 50 times the pressure!



Without XPL+
@ 4,000psi



With XPL+
@ 200,000psi

Typical lubricants tend to migrate away from heat sources but XPL+ has a positively charged molecule structure with a strong ionic (+) charge which allows it to bond to metal even under extreme heat and pressure, giving lubricants formulated with XPL+ unprecedented film strength and extreme pressure protection.



Typical Lubricants

Charge	-	+
Bonding/flowing	Flowing	Bonding
Reaction to heat & pressure	Migrates away	Migrates towards
Film strength	Limited	Extraordinary
Environmentally friendly	No	Yes

Tested & Proven In The Laboratory

Lubricity Coefficient for ProOne Bio-Stable Downhole Drilling Fluid
Test Method: Baroid Lubricity Meter (Metal/Metal) Water Coefficient of Friction: 1.0

Attracted to heat and friction

Coefficient of Friction recorded at **78°F**

Ultra Cab System	Initial
Blank	0.350
4% ProOne	0.062

85%



Coefficient of Friction recorded at **200°F**

Ultra Cab System	Initial
Blank	0.344
4% ProOne	0.024

94%





In the field...

Major Operator – Canadian, TX - July, 2012

“We solved existing torque & drag problems in this highly deviated well.” – Company Man

Direct Results

- ProOne reduced torque from 15,500 ft./lbs. to 9,700 ft./lbs. (a direct reduction of 37%)
- ProOne increased ROP from 22.75 fph to 25.50 fph (increase of 12%)
- Reduced drill curve time from 64 to 30 hours
- Torque maxed out. With ProOne, hole reached TD

Savings:

2x Trip Outs @ 60,000 each	\$120,000
2 Drill Bits @ \$15,500 each	\$31,000
Reduced Drill Curve Time - 34 Hours Faster (64 to 30 hours) @ \$2,500 per hour	\$85,000
ROP @ Curve to TD 4,437 ft. @ 25.50 fph	\$52,500
(Increase of ROP 12% Savings 21 hours x \$2,500)	
No Hard-banding Needed! (Magnets Stayed Clean)	\$12,047
Gross Savings	\$300,547



Major Operator – Elk Hills, CA - May 2012

“In 30 years I have never seen anything reduce torque like ProOne Downhole Drilling Fluid Treatment” – Company Man

Direct Results

- Torque Reduced from: Avg. 15,500 ft./lbs. to Avg. 8,500 ft./lbs. = 45% Reduction
- WOB allowed to increase to 35,000 lbs. @ 10,239 ft./lbs. of torque.

Project TD: 15,000 ft.

Formation: Chert

Torque as found: 16,200 ft./lbs. Max. Avg. 15,539 ft./lbs.

WOB as found: 22,900 lbs.



Major Operator – Bakken, ND - 2013

“Saved 4 to 6 days @ \$90,000 per day over previous 3 holes drilled using a different lube.” – Company Man

Direct Results

- Increased R.O.P. and reduced trip outs to save 4-5 days in drilling

Well Depth: 20,980 TD



www.pro-one.us

Major Operator – Denton, TX - May, 2013

“When we added ProOne, we noticed a significant drop in torque and increase in ROP.” – Company Man

Direct Results

- **TORQUE- 40% reduction**
- **WOB (Weight on bit) Increased from 25,000 lbs. to 32,000 lbs. holding torque to 13,500 ft./lbs. at TD**
- **TRIP OUT – Decreased drag**
- **HOOK LOAD – Reduced from 330,000 lbs. to 260,000 lbs.**
- **CASING – 2 hours off company record**

18,000 ft./lbs. (Torque) @ 25,000 lbs. (WOB) - Without ProOne

10,000 ft./lbs. (Torque) @ 25,000 lbs. (WOB) – With ProOne



Major Operator – Eddy, NM - May, 2013

Longest Lateral in New Mexico History = 19,770 ft.

“In 25 years in the oilfield, I have never seen anything like ProOne. To lay this much 5” pipe at 12,000’ of the lateral should take twice this much hook load in this tough formation.” – Company Man

Tripped out @ 15,287 MD Hook Load – 400,000 lbs. – Without ProOne

Tripped out @ 18,181 MD Hook Load – 260,000 lbs. – With ProOne

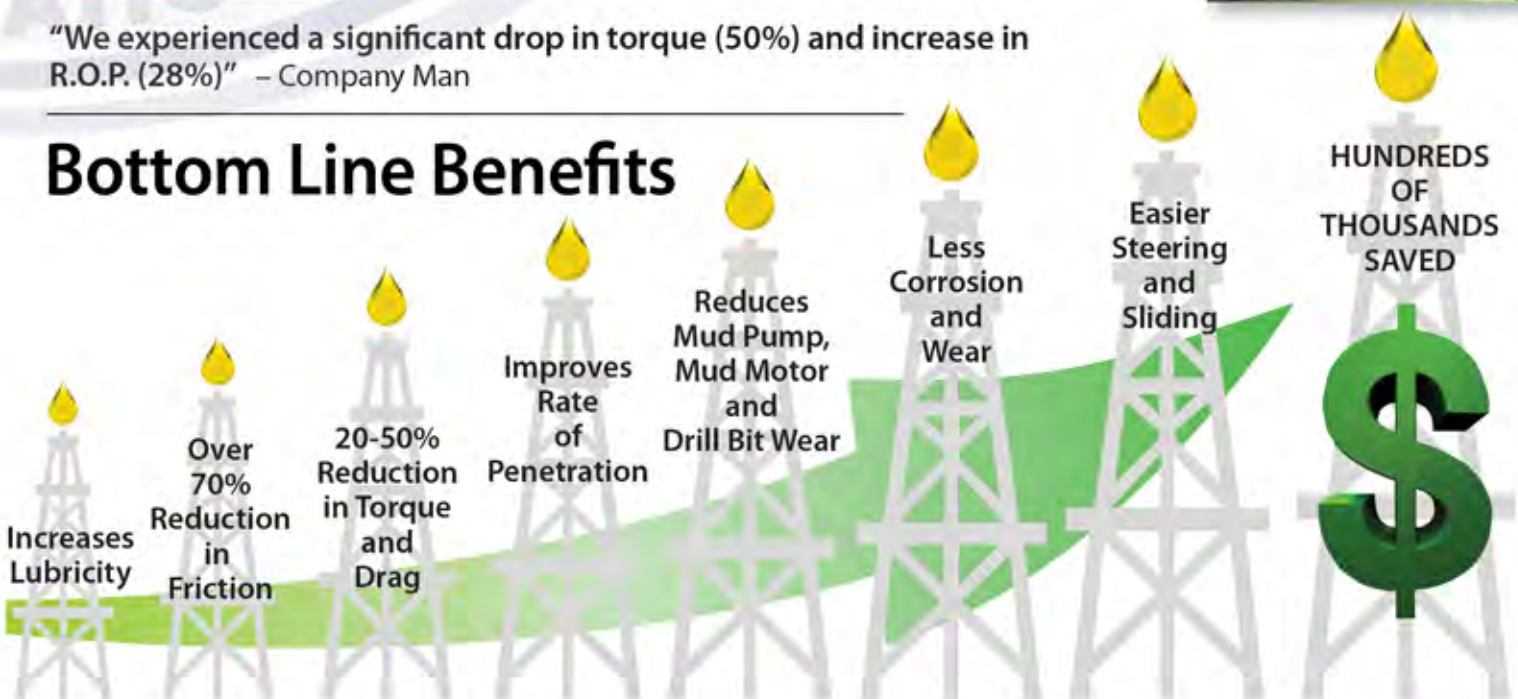
Direct Results

- **TORQUE- 50% reduction. Maxed out from 30,000 ft./lbs. to 15,000 ft./lbs.**
- **R.O.P – Increase of 28% from 41 fph to 57.5 fph**
- **TRIP OUT – Decreased drag**

“We experienced a significant drop in torque (50%) and increase in R.O.P. (28%)” – Company Man



Bottom Line Benefits





Environmental Testing



ProOne Downhole Drilling Fluid® Treatment is both readily and ultimately biodegradable as defined by stringent international standards, and is also non-toxic to aquatic life.

OECD 301B Biodegradation Test

ProOne achieved 60% degradation by day 16 with a plateau of 83% degradation by day 31 of the test period demonstrating **Ultimate Biodegradation**.

Microtox D50

0.018 L/m³ (0.016-0.020) = >91%. Minimum requirement 75%.

Fathead Minnow 96-Hour

96 HOUR = >750 ml/L

Mysidopsis Bahia 96-Hour LC50 @ 3%

30,000 ppm is required to pass, industry prefers 150,000 ppm. Results: 464,800 ppm.

Mysidopsis Bahia 96-Hour LC50 @ 5%

30,000 ppm is required to pass, industry prefers 150,000 ppm. Results: 239,100 ppm.



Earth Friendly Technology

Protect Your Rig Equipment! Minimize Downtime!



Heavy Duty Oil Stabilizer – Outperforms All Other...Guaranteed!

Highly recommended to protect Diesel Generators. This product features XPL+ Xtreme Pressure Lubrication technology to bond to the metal, reduce friction, and give protection when rigs are under extreme performance, second to **none!**

Stops Oil Burning & Leaks – Eliminates Smoke – Quiets Engines & Gearboxes - Stops Thermal Breakdown - More Power with Better Fuel Economy – Prevents Costly Downtime

See the live demo at www.pro-one.us



Fuel Maximizer – Fuel Conditioning Technology

ProOne Fuel Maximizer is a fuel catalyst that liberates its chemical energy allowing diesel to burn more efficiently, dramatically reducing ash, carbon, smoke and emissions.

Significantly Reduces Fuel Consumption – Removes Carbon & Soot - Restores Lubricity Lost in ULSD Fuels – Reduces Downtime – Helps Meet Emission Compliance Standards



XPL-101 Penetrating Spray – The Best Liquid Tool On The Rig!

No other penetrating spray offers XPL+ lubrication technology which protects metal surfaces from heat, friction, moisture and the elements, and easily loosens rusted or sticky mechanisms. We guarantee that once you use this powerful environmentally formula you will never settle for anything else.

Air tools – Bolts – Chains – Cables – Drilling – Electrical Terminals – Fasteners – Gears – Hand Tools – Levers – Locks – Winches - Pulleys

See the live demo at www.pro-one.us



EP-2 Grease

Delivers outstanding extreme pressure protection to help maximize equipment life and performance, and help save energy, even under the harshest conditions. Outstanding water & corrosion resistance, extreme pressure protection and heavy load carrying capability.

Extreme pressure protection – Water resistant – Corrosion Resistant – Seal Compatible – Extreme Heat Range

See the live demo at www.pro-one.us



www.pro-one.us





ProOne , Inc.
10497 Town & Country Way #700
Houston, TX 77024
Phone: (832) 516-6700
Fax: (832) 516-6701

www.pro-one.us

ProOne, Inc.
940 South Coast Drive
Suite 200
Costa Mesa, CA 92626
Phone (714) 327-0262
Fax: (714) 668-9650

© 2013 ProOne, Inc.