

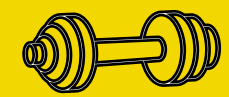
AN OILPATCH BREAKTHROUGH



HARDNESS



**DOUBLE
DOUBLE**
DOUBLE THE
DENSITY OF STEEL



HIGHEST TENSILE
STRENGTH AS ALLOY



HIGHEST MELTING
POINT OF ALL
METALS



Tungsten?

Of all metals, this element has the highest melting point (3,422°C). It has the highest tensile strength under extreme heat environments, including high resistance to corrosion. As a refractory metal Tungsten has the highest resistance to surface wear when combined with hard metal alloys. Tungsten greatly increases the hardness of steel hence it is used in metal tooling (e.g.: anvils, steel foundry tools, and HD hydraulic equipment rams).

It has an extreme low coefficient of friction making it one of the best metals providing minimal seal wear.



Tungsten **ELECTROPLATING?**

The process of "electrodepositing" dissolved ions of **TUNGSTEN** on and into the alloy **4140 AISI/SAE** surface is a major advancement. Providing the **HARDEST FULL LENGTH** 100% coating with a consistent depth that **NO** spray hard surfacing can achieve.



**A SURFACE SO
TOUGH AND
HARD
YOU CAN PUT
ROD CLAMPS ON
IT.**

TRIED - TESTED - TOUGHER



ADOIL W99 TUNGSTEN POLISHED ROD

A TESTIMONIAL

“ I have found a new polished rod that is Tungsten coated and has survived some of the toughest conditions in the Kern County oilfield with temperatures up to 190° Celsius and wells that produce flour sand, H₂S and CO₂, conditions which most heavy oil fields produce. Since introducing this new Tungsten coated rod, polished rod change outs have been reduced tremendously and the operators involved in this field have had more time to work on other parts of the lease other than just changing out rod seals on a daily basis like previously. ”

- Senior Production Supervisor,
Kern County, California

W99 VS. YESTERDAY'S RODS

ADOIL, in conjunction with one of the newest science driven steel mills in the world, introduces the HARDEST, low-friction smooth surface rod pump polished rod in the oilpatch. Our Tungsten oxide electroplated (**not sprayed**) rods are up to 100% above the surface hardness of the leading Stainless Steel or all other Sprayed rods in use today.

	W99	SPRAYED ROD	N50
HARDNESS VALUE	886 HV	480 HV	320 HV
TENSILE STRENGTH	136,045 psi	115,000 psi min	134,000 psi
YIELD STRENGTH	126,328 psi	85,000 psi min	109,000 psi
ELONGATION	13%	10% min	20%
REDUCTION	60%	20% min	50%
COATING	Tungsten	Various compounds	API not rec.
COATING PROCESS	Electroplated	Sprayed	Non-API

Available in Diameters: 1 1/8" , 1 1/4" and 1 1/2" and
Lengths: 22ft, 26ft, and 30ft

Independent laboratory analysis available upon request.

Finally, after more than 30 years, there is a new long lasting, corrosion resistant rod in the oil industry - **the ADOIL W99.**



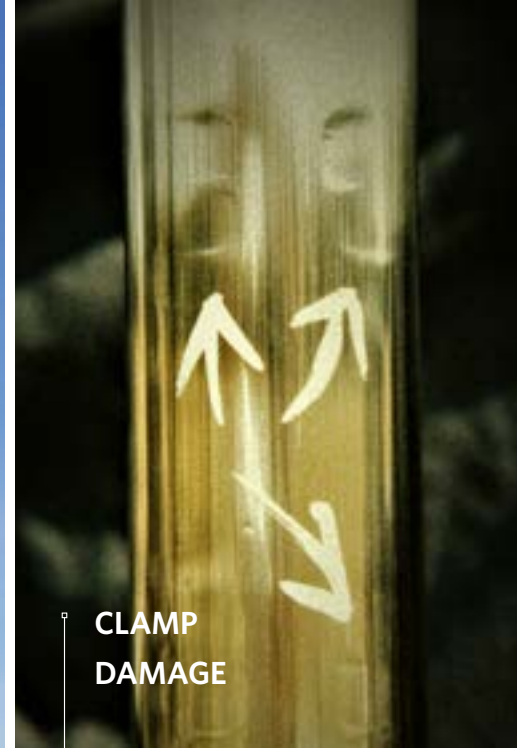
H₂S/SAGD (SUPERSTEAM)
CORROSION



CARBON STEEL SEVERE
CORROSION & SURFACE
DEFORMATION



N50 SURFACE
SCORING/GALLING



CLAMP
DAMAGE

**ALL OF THESE -
RESULT IN IMMEDIATE
SEAL DAMAGE.**

- HIGHER LABOUR COST
- FREQUENT MATERIAL REPLACEMENT (GRAVEL, RODS, PACKING)
- HIGHER LIFTING COST



PROFIT ADVANTAGES

A stronger, superior polished rod eliminates most time consuming seal change-outs, rod replacements, oil seal seepage, and packing blowouts.

**THE
RESULT?**
LOWER LIFTING
COSTS
& GREATER
PROFITABILITY
PER WELL.

IT COST NOT TO INNOVATE.

DEMULSIFIERS, KNOCK-OUT CHEMICALS, TOXIC SALT WATER, SAND & GRIT



DAMAGED ROD SURFACES DESTROY OIL SEALS.

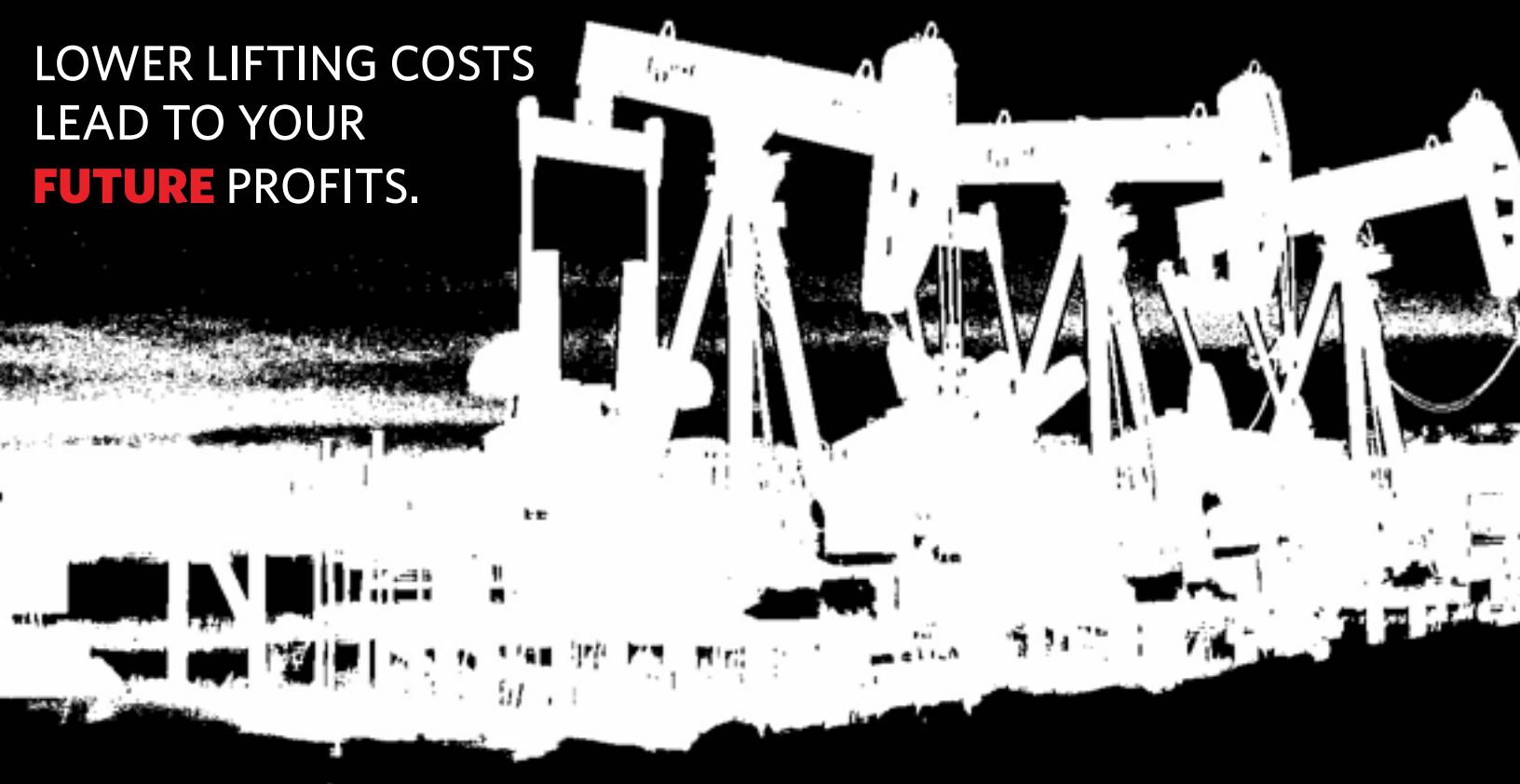


ECO INITIATIVE

AdOil's Environmental Initiative highlights our objective to work with oil-producers to identify and proactively address the environmental issues associated with wellhead leakage to help better protect the environment.

**WALKIN' THE TALK ON
GROUNDWATER PROTECTION
STARTS HERE.**

LOWER LIFTING COSTS
LEAD TO YOUR
FUTURE PROFITS.



B11 416 Meridian Road SE, Calgary, AB, Canada T2A 1X2 **PHONE:** (403) 242-2201 **EMAIL:** sales@adoil.net **ADOIL.NET**