



*Maximizing Earths Original Resources, L.L.C.*

4610 S. 33<sup>rd</sup> Place • Phoenix, AZ 85040 • Phone: (480) 929-9194 • Fax: (480) 219-6875 • www.meor.net

# MEOR

## **TSTM™ (Total System Treatment Method):**

This method developed by MEOR, LLC was created to maximize oil production, gas production, remove paraffin buildup, reduce corrosion, reduce oil viscosity and reduce corrosion rate resulting in:

1. Increase oil production
2. Increased gas production
3. Removal of paraffin for a longer period of time (stays in the liquid phase due to not volatilizing)
4. Removal of paraffin in the formation
5. Reduction in oil viscosity
6. Reduction in piping corrosion rates
7. Removal of paraffin from oil transfer line
8. Reduction of oil viscosity in the holding tank

The TSTM™ method was created as ‘total system treatment’ by treating the ‘source’ of the buildup resulting in cleaner flow line, down hole pipes and storage tanks. This approach consists of one simple down hole product with several additional products available to increase the time between treatments while maximizing production rates if requested.

The key product to the success of TSTM™ to date is a chemical blend, developed by two of MEOR’s biochemists, which actually re-liquefies the paraffin and asphaltenes without harmful cancer causing chemistries.

**Paraffin Eliminator™** - When injected down hole, Paraffin Eliminator™ will actually re-liquefy paraffin buildup in both the down hole piping and flow line as well as reduce oil viscosity throughout the system including the oil storage tank.

**Salt Extractor** – This product is utilized to breakdown the salt matrix that typically binds the paraffin together by ‘in essence’ chelating the salt organically out of the paraffin deposit. This chelation process ensures a ‘loose paraffin’ which is easily penetrated by the Sludge Slammer™ quickly re-liquefying it from the piping walls.

**Longevity Option - MicroBrew** – This is a bacteria based product of paraffin eating bacteria. As a dry powder this product is re-circulated and grown in an aerated tank off site for 24 hours and fed a combination of organic nutrients, which enable a large colony count of paraffin eaters (4 billion cfu /ml).

These bacteria are injected down hole, mixed with the flush water to provide a long-term positive effect on the paraffin elimination in the formation. The greatly increased bacteria colony count, along with the ‘in situ’ bacteria already existing in the formation, proliferate and thrive on paraffin resulting in long



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term paraffin reduction in the formation and an increase in time between down hole treatments. This also results in a potentially higher baseline of oil production and/or gas production for that well.

**Note:** A few oil producers have been taught that bacteria may cause corrosion. This is a true statement in the case of IRB (Iron Reducing Bacteria) or SRB's (Sulfate Reducing Bacteria). Both are anaerobic (do not like or need air to survive). The HC-7 bacteria, a constituent of microbrew, are aerobic (needs air to survive) in nature and do not attack iron or any metals. The HC-7 has been bred as solely a paraffin consumer.

**Friction Reduction Option** –“**RF-10 / XenTx**” - This 100% synthetic metal conditioning agent removes deposits from motors and reduces pump friction markedly reducing pump operating pressures and temperatures resulting in unit efficiency increases of 5 -20 %.

## **Application Method – Protocol:**

Although each formation varies and the protocol may vary slightly this is a “general” application method of the down hole TSTM™.

1. Secure the well/ shutdown the well
2. Add 10 gallons to 3 drums of Sludge Slammer™ down hole (amount varies based on oil production and hole depth).
3. Immediately add 2 gallons to 10 gallons of Salt Extractor to well.
4. Add brine water (or water blended with Micro Brew) down hole (5 barrels to 20 barrels) (Optional)
5. Re-circulate well for 6 -24 hours to allow for proper contact of products to the paraffin and formation.
6. After placing well back on line immediately passivate exposed metal with corrosion inhibitor of choice.



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**FULFER OIL PROJECT RESULTS - JAL, NEW MEXICO**

<b><u>BEFORE</u></b>							
<u>NAME OF WELL</u>	<u>OIL # OF BARRELS PER DAY</u>	<u>GAS MCF/DAY</u>	<u>WATER PRODUCED PER DAY</u>	<u>WELL DEPTH FEET</u>	<u>API &amp; PRESSURE</u>	<u>HOT OIL COST</u>	<u>PROFIT/DY AT \$46.00/BR RL</u>
Tishman #1	2	0	6	3800	No gauge		92
Wilson #5	3	5	2	3200	18/65LBS		138
Jenkins #3, #4, #5	12	50	7	9000 AVG			552
Chesapeake	100	100					9200
<u>TREATED WITH MEOR</u>	<u>SLUDGE SALMMER DOSE</u>	<u>DATE</u>	<u>SALT EXTRACTOR DOSE WATER AMT/TEMP</u>	<u>HC DOSE</u>	<u>BIO NUTRIENT AMT</u>	<u>WATER DOSED &amp; TEMP</u>	<u>RF10 IN PUMP MOTOR</u>
<b>Tishman #1-</b>							
DAY 1 RECIRC 24HRS	45 GAL	4/24/2005	0				NO
DAY 2 RECIRC 24 HRS		4/25/2005	5 BRLSWATER/60 F	3 LBS	3 GAL.	300G/60F	
<b>Wilson #5-</b>							
DAY 1 RECIRC 24HRS	55 GAL.	4/24/2005	5 GAL				
DAY 2 RECIRC 24 HRS		4/25/2005	35 BRLSWATER/120 F	3 LBS	3 GAL.	300G/60F	40 OZ
<b>Jenkins #3</b>							
DAY 1 RECIRC 24HRS	55 GAL.	4/25/2005	5 GAL.				
DAY 2 RECIRC 24 HRS		4/26/2005	4 BRLS/WATER/60 F	3 LBS	3 GAL.	300G/60F	32 OZ
<b>Jenkins #4</b>							
DAY 1 RECIRC 24HRS	55 GAL.	4/25/2005	5 GAL.				
DAY 2 RECIRC 24 HRS		4/26/2005	40 BRLS/WATER/125 F	3 LBS	3 GAL.	300G/60F	32 OZ
<b>Jenkins #5</b>							
DAY 1 RECIRC 24HRS	55 GAL.	4/25/2005	5 GAL.				
DAY 2 RECIRC 24 HRS		4/26/2005	10 BRLS/WATER/60 F	3 LBS	3 GAL.	300G/60F	160 OZ
<b>CHESAPEAKE</b>			5 GAL				
DAY 1 RECIRC 24HRS	55 GAL.	4/28/2005	30 BRL WATER/60F	0	0	0	0



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## AFTER

<u>NAME OF WELL</u>	<u>OIL</u> # OF BARRELS PER DAY	<u>GAS</u> MCF/DAY	<u>WATER PRODUCED</u> PER DAY	<u>WELL DEPTH</u> FEET	<u>API &amp;</u> <u>PRESSURE</u>	<u>HOT OIL</u> <u>COST</u>	<u>PROFIT</u> /DAY AT \$46.00/ BRRL
<b>Tishman #1-</b>		YES		3800	No gauge		
DAY 1 -4/26/05	17	No gauge	22		50ft flowline		
DAY 2 -4/27/05	8		18				
DAY 3 -4/28/05	4.5		10				
DAY 4 -4/29/05	3.3						
DAY 5 - 4/29/05							
<b>Wilson #5-</b>							
DAY 1 -4/26/05	<u>5.5 in 8 HRS</u>	23	7.3 in 8 HRS	8000	18/25LBS		
DAY 2 -4/27/05	8	28	17				
DAY 3 -4/28/05	8	35					
DAY 4 -4/29/05	8	37					
DAY 5 - 4/29/05							
<b>Jenkins #3, #4, #5</b>	16 - 6 HRS		13	9000 AVG			
DAY 1 -4/27/05	24	160	3				
DAY 2 -4/28/05	18	60	3				
DAY 3 -4/29/05	18	85	3				
DAY 4 -4/30/05		90	3				
DAY 5 - 5/1/05							
<b>Chesapeake-</b>	203	300 MCF		11,000			
DAY 1 -4/27/05							
DAY 2 -4/28/05							
DAY 3 -4/29/05							
DAY 4 -4/30/05							
DAY 5 - 5/1/05							

**NOTES:** Jenkins wells are on same flow line - huge increase in gas. Tishman oil was like asphalt and can flow now. METHANE GAS IS SOLD AT \$7.00 PER 1000 CF. TISHMAN & WILSON PUMPS LOCKED UP DUE TO AIR IN PUMP.