

# The Line Shaft

*The Official Newsletter of the*

**NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB**

May 2014



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(973) 997-5284

**Our Web Address: [njaemc.org](http://njaemc.org)**

*Founded on October 15th, 1979 by: Arthur Goble, Fred W. Westbrook, John Snook, Roy Bischoff & Lewis Quince*



For more info call:  
Toni at 973/223-2665

## Spring Plow Days Event

**Green Valley Farms**

997 Route 23N Wantage, NJ 07461

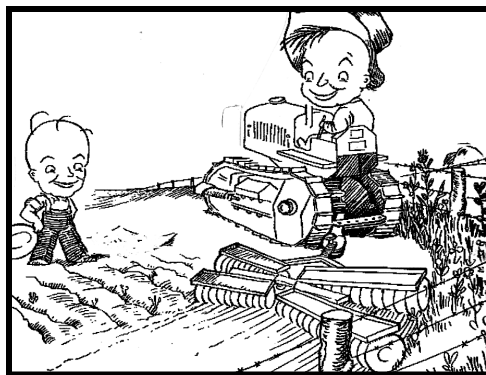
Same place as last year!

**May 3rd 2014**

Lunch will be available...

Plow participants arrive at 9:00 AM for the drivers meeting!

All tractors must have fire extinguishers to participate...



A 2nd Plow Days Event will be available for club members who are interested.

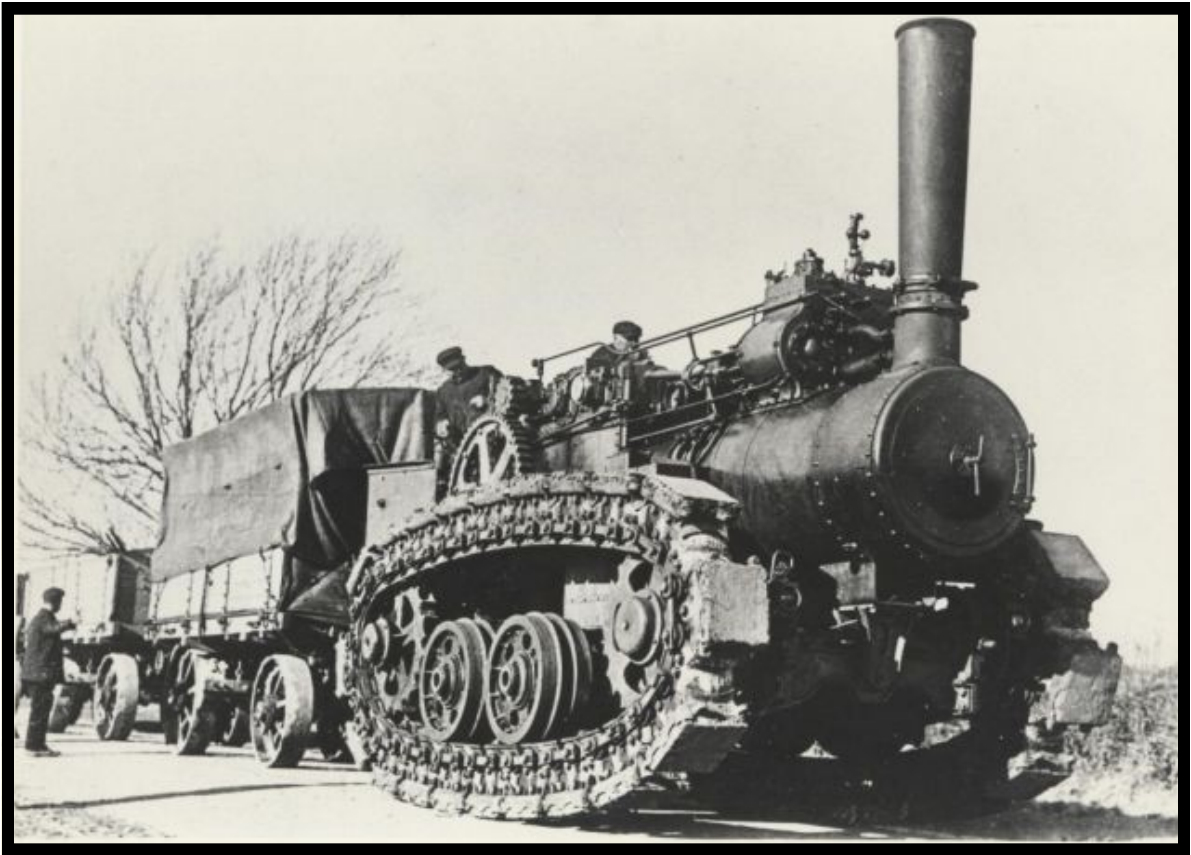
The event will be held on Saturday May 17th at 9AM.

For parking and directions to the fields call Chuck Klim at 973/948-0693...

***Location: Sammis Farms in McAfee NJ***

*Bill Castimore won the 50-50 at the April meeting and turned the proceeds over to the club...thank you Bill!*

***Our next meeting will be at 7PM on May 8th 2014 at the shed!***



This coal fired steam powered 25 ton tractor was manufactured in 1909 and shipped to Dawson City (Yukon Territory), Canada in 1910. Built by *R. Hornsby & Sons* of Grantham England, it included the Hornsby “Chain Track”. This style of undercarriage was patented in England in 1904...considerably after the 1901 American patented *Lombard Undercarriage and Log Hauler* and about the same time as the un-patented *Holt Crawler Tractor*.

*Hornsby*, a builder of steam, gas and oil fired engines and Ag equipment had previously built crawler tractors powered by the *Hornsby/Akroyd Semi-Diesel* hot bulb compression-ignition-heavy-oil engine, but this crawler was a one-off special-built unit. It was used to haul coal wagons that supplied Dawson City with coal in the winter. In northwestern Canada oil was scarce and coal was plentiful, so the tractor was powered with a coal fueled steam engine.

Other than the un-patentable sprocket drive, the parallel-link *Hornsby Chain Track* was considerably different and much more complicated than the *Lombard* (and *Holt*) off-set link type crawlers and did not violate the *Lombard* patent. Industrial sprocket-chain drive systems are known to have been in use in China as early as the 10th century, were in use in the French textile industry in the late 1700’s and installed on bicycles by the mid-1800’s. The *Lombard* and *Hornsby* crawler chain drives were a “big” leap forward in both size and technology. The *Lombard* off-set chain became the predominant style undercarriage in the 20th century and both *Caterpillar* and *Komatsu* introduced parallel-link undercarriages in the 21st century.

In 1914 *Hornsby* “sold” their track patents to the *Holt Manufacturing Company* of Stockton, California. Post WWI, *Holt* and the *C. L Best Gas Traction Company*, of San Leandro, California (who had purchased the *Lombard Flexible Chain Undercarriage* patent), went thru a multitude of law suits trying to determine who had the rights to the “crawler track system”. This court battle, called “the lawsuit of the century” within the tractor industry, was finally settled in 1925 when *Holt* and *Best* joined and became the “*Caterpillar Tractor Company*”

***The Hornsby Steam Crawler would remain the largest crawler tractor on the North American continent for decades!***



John Stickle won BEST TRACTOR AWARD presented by,  
The Military Transport Association!



*1955 Mayrath garden tractor Delux  
(1) of (10) manufactured...*

*Clay & Howard Squires had a  
presentation of their new Sand  
Blasting business.*



# MARKETPLACE

**For Sale: Wheel Horse Lawn Tractor...needs motor work , no attachments,  
\$200.00 or BEST OFFER...Call Danny H. 862/266-7362**

**For Sale: 1924 Hercules/Jaeger 2HP, 1918 IHC M needs TLC, (2) Delco 32volt light plants, NOVO Square Hopper for parts  
Call Andy Mackey 862/432-1552**

**For Sale: 2500 WATT 1958 Onan Generator with manuals...not running!  
Call Martin Little 973/875-4511**

**For Sale: Sears FF-20 Lawn & Garden Tractor w/42" mower  
Call Kevin Adams 973/819-9330**

**For Sale: Steam bent ash plow handles, \$30.00 a pair  
Call Bruce Mitchell 973/702-1012**

**For Sale: McCormick-Deering Farmall Model A 1944  
Call John Stickle 862/397-3782**

**For Sale: 1952 Ford 8N w/grader blade & York Rake, asking \$2,500.00  
Call Jim Dunlap 973/219-9694**

**Wanted: Manuals & Parts for Witte 6-HP horizontal diesel  
Call Andy Mackey 862/432-1552**

**Wanted: Front dozer blade for 1953 Huber M180 Road Maintainer  
glenn\_hermel@excite.com or 201/787-3275**

**Wanted: Thiokol Imp Snow Cat  
Call Jeff 973/997-5284**

*A donation to the club would be appreciated if the item is SOLD!*

## Dustless Blasting

Eco-Friendly On-Site  
Blasting

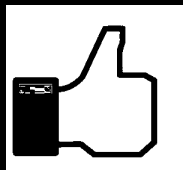


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