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Originally printed in July 1978

Logging and Reporting:

My experiences brings together two trainings, two occupations, that seem unrelated to each other. Logging and Reporting. I have said, many times, that being a logger is good preparation for almost any other way of making a living. Logging is tied to production. There is no way to fake it. You either can do it or you can't. If you can then you strive to get better. If you can't do it then you either learn to do it or you get out of logging.

Logging and loggers teaches one many things. It is no place for the lazy. It is no place for the uncoordinated or the uncooperative. It teaches you to get the job done. Done every day. No matter what happens. It teaches you to think as you act. The main thing is that you have a goal for the day and you'd better meet it. Here come the logging trucks back to the landing whether you are ready or not. Each logging job has a measurement system, you can measure the progress by the quarter hour if you want to. You can take measurements each half day at the very least. ("We

IN THIS ISSUE



ON THE FRONT: Standing tall on the land-ing near Naselle, Wash. is Nygaard Log-ging's Thunderbird TY90 yarder operated by Don Pearson. The Cat delimber in the photo is operated by Jim Perdew. See "Staple of the Community" starting on Page 10 didn't get much done today but we'll give it hell tomorrow.")

Logging teaches you to look it

over and make up your own mind. You need to know and know you know before you start all the machinery, and how you can make changes when you are wrong.

Logging teaches you a priority or value system. Don't block the

something is broke down get it out of the road and work around

it. Fix it tonite when we won't

FINLEY HAYS

hold up production. Work all night to get it fixed so we can be logging with it tomorrow.

Logging teaches --teaches many, many things. It teaches selfreliance, confidence, and dependence upon other loggers. It teaches you how to complete

road, do the jobs in their order. If the job and to have admiration and respect for those who do the job.

> After you have had some (Continued on Page 6)





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THUNDERBIRD Yarder TTY-70, Track Mt, Excellent\$550,000



CAT 320C FM/Log Max 7000\$139,500



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LOG LOADERS

JOHN DEERE 2954 Log Loader, 2011, excellent\$189,500

KOBELCO SK350 Log Loader, '07, Forest Cab \$135,000

KOBELCO SK350 Log Loader, 2011, low hrs....\$198,000

LINK-BELT 290LX Log Loader, For. Cab, '05......\$85,000

BARKO 475 Log Loader, price reduced ..

CAT 330B Log Loader, Recent under ..

DOOSAN DX225LL, 2013, excellent

DOOSAN DX300LL, Forestry cab

DOOSAN SOLAR 225 Log Loader ...

DOOSAN SOLAR 300 Log Loader

KOBELCO SK250 Log Loader

KOBELCO SK290LC Log Loader ...

LINK-BELT 4300CII Log Loader ...

DOOSAN SOLAR 300 Log Loader, low hrs..

HITACHI Z200F Log Loader, New under...

CAT 235B Log Loader ..

1984 FORD 5 YD Dump Truck....



SKAGIT 739 Slackline, T100HD, Trailer MT\$149,500

THUNDERBIRD TTY-70, Track mt., Excellent.....\$550,000

THUNDERBIRD TY40, Trailer mt., excellent\$159,000

..\$265,000

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THUNDERBIRD TY80, T-100 trailer mt.

CAT 518 Cable Skidder, good runner..

CAT 980C Wheel Loader. Rollout Bkt ...

CAT 525B Grapple Skidder, recent updates ...

CAT 966D Wheel Loader, Bucket, good tires...

CAT D5H, Fixed Grapple & Winch, OROPS.

DOOSAN DL500/CWS Log Forks, low hrs..

DOOSAN DX225LC Excavator, Bkt/Thumb

FIAT ALLIS FD9 Crawler Tractor, Winch/Arch

INTERNATIONAL TD7E, 6-way Blade, Bare Rear\$16,500

KMC Track Skidder, Cummins, swing grapple\$64,500

KOEHRING BANTAM 366 Excav., Bkt/Thumb\$17,500

MOUNTAIN LOGGER ML150 Skidder, new tires.\$18,500

WAGNER L100 Log Stacker, '89, Excellent\$174,500

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TRUCKS & TRAILERS

MISCELLANEOUS

FIAT ALLIS FR130-2 Wheel Loader, Clean

GARRETT 25 Skidder, Cummins.....

TREE FARMER C5D Skidder, clean......

WAGNER L480 Log Stacker

VOLVO L330 Log Stacker

ACME 13 Motorized Carriage

DANZCO PT20 Pull-Thru Delimber

PRO MAC PC120 Mulching head, low hrs.

GENERAL Log Pup Trailer, 2-Axle, 8'6" Bunks..

KW W900L Logger, 2000, 3406E, 18-sp., nice!...

MOXY MT30 Articulated Dump Truck...

CLEARING Rake, w/Push Beams, D7F/G ..

BOMAN Mark V Skycar, 2006

EAGLE II Motorized Carriage ...

EAGLE III Motorized Carriage .

KW Dump, 1973..

WAGNER L90 Log Stacker ..

FIAT ALLIS 8 Crawler Tractor, Winch/Arch....

CLARK 666 Cable Skidder, good tires

TREE FARMER Skidder C5D Can Car, clean, new tires\$13,500



THUNDERBIRD Yarder TY 40, Trailer Mt, Excellent \$159,000



SAMSUNG 210 SE Log Loader, excellent.....\$72,500



JOHN DEERE 655 Track Mount Front End Loader,\$9,500





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MARCH 2016

LOGGERS WORLD







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⁶ Rigging Shack

(Continued from Page 4)

 ${f \omega}$ years in as a logger and have 201 worked with some of the best log-E gers you build up talents that are of value in many places. One thing is that you don't take gers you build up talents that are things for granted and you figure WORLD a lot of things out for yourself.

In this world, in every phase Loggers of business and non business living, there exists a pile of misinformation. Certain ways to do things, certain limitations upon what is considered hard work or what is considered a full day of work.

Whole professions and businesses are built upon false premises, businesses that exist only because they are able to convince someone else that they are necessary and vital.

You discover a lot of these things. You discover that the core of anything is the people who get the work done --- they support the rest. You find out just how easy it is, in some cases, to make a living.

Another thing that bewildered me, and still does, is the

fact that many people doing the least are paid the most. Most of the time the payment is not for results.

Then we get to reporting. My definition of reporting is not very flattering to reporters and I consider myself a reporter. A reporter merely is a person that sees something and then reports on what they have seen. If in addition the reporter can take pictures, so much the better.

We as reporters get mixed up once in awhile and try to get in the forefront of the story we are writing. This shouldn't be done. But we do get to see a lot of things, meet a lot of good people, get to interview some darned smart people and from these things one should learn something or another once in awhile --- if only by accident.

What a reporter learns is that most of the people he talks to aren't telling all the truth. The person being questioned wants to make a good impression and wants to say what will be pleasing to the reporter and read good in print. This is okay and it is human and it is to be expected.

Then a reporter by training and experience must train himself to look beneath the surface. To judge by what is done and not by what is said. Anyone can say almost anything --- we all know the same words. We find that people are continually going against the facts and making a success of it. No sooner does someone come along with a book full of reasons why something cannot be done when some idiot, who doesn't have the book, goes ahead and does it. He does it in spite of the facts --- in fact he has amassed a bunch of new facts.

Now last month I talked to three government people coming all the way from Washington D.C. to Portland to give a 15 minute speech or a total of less than an hour of talking from the three of them. This is important to know because this is the same government that is hammering at you and at me to spend less energy in our work and pleasure. In fact any day now they will be passing laws that will force us to comply with their idea of what is a good energy plan and what isn't.

If you train yourself to do two things; (1) measure the results and (2) watch and analyze what is done instead of listening to what is said; then you will see that the energy program is to limit you and I but not to limit the government or any of their hundreds of thousands of employees

There is a formula for this that works most of the time. You look at the expenditures of time and money and then you measure

the results and divide one into the other. Only you can tell what answer is pleasing to you.

Most activities will fit into this formula but the activities that are puzzling to me are those that seemingly cannot be measured. If you can't measure the results you are up in the air about that particular activity or program. Which comes back down to the old simplified method of learning about things. If it works keep on doing it. If it doesn't work, quit doing it. If it might work give it a try.

To make this program work, take measurements along the way to find out if it is working, not working or might work. You find out what the results were and what they cost and ask were they worth it?

This all sounds simple doesn't it? It is simple, really. The most important things are simple --- or at least many of them are. The difficult thing is to take measurements: "What are the results?" Then make corrections --- if they are needed.

Just in case you think I'm one who has all the answers, forget that. I am making some of the same mistakes now that I made 30 years ago --- even longer ago than that. I am doing better --making more progress and observing more all the time. That is progress. It might be slow but it is still progress.

I sure hope that next month I know more than I do this month --- but that still wouldn't confound anyone.



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2014 CAT 522B, Equipped With CAT HF201B Saw Head, 762 hrs., 27-3/4" Single Grouser Ice Lugged Track Pads, Like New Condition\$410,000



2007 Madill 800 Processor Equipped With A 2005 Waratah 622B, 10,000 hrs., Excellent Condition, Job Ready!.....\$129,000

2001 Timbco 416, Rolly II

Processor Head, Cummins

Engine, U/C 70%+, Heat,

A/C, Radio, Many Recent

....\$95,000

Updates



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2013 John Deere 2454D Log Loader, 6,058 hrs., EX0250 Grapple, Forestry Cab, 27-1/2" Double Bar Grousers, U/C Replaced 1 Year Ago .\$249,000



2007 Hitachi ZX350 LL Log Loader, 18,770 hrs., Equipped With Waratah 624C, 12,000 hrs., Reinforced Frame, Tight 2nd Rotex, Tight Boom\$169,000



2014 Komatsu 445L Equipped With Quadco Hotsaw, 1,400 hrs., New Condition\$449,000



1997 Timbco 415C, 10,332 hours, Bare Machine, Last Attachment Was A Grapple\$49,500





1980 FMC 210CA Grapple and Winch, New FMC Tracks and Road Wheels, Torsion Bars excellent, RUNS GREAT, Detroit engine, Clark trans, Hyster WinchNew Price! \$40,000



2005 Fabtek FT-153, JD 6 Cyl., 8,959 hrs., 18-20" Head, FT18R, Fire Suppression, 3/4" Pitch Chain, Butt Saw, Steel Wheels With Points, 2 Bar Grousers, U/C 75%+, Tight Boom.......\$140,000



2006 John Deere 200LC Excavator/Processor, Equipped With Waratah HTH20 Processor Head, 8,029 hrs., Heavy Duty Catwalks, FOPS Cab Guard, Side Guards, Riser, 32" Triple Bar Grouser Ice Lugged Trackpads\$83,000

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1993 Kaldness 9000 Loader, Boom and Grapple, Mounted on CAT Carrier, CAT Power 3406 Transmission, Capacity is 22 Tons Per Grapple Load, Very Low Hours......\$79,000



1972 CAT D6C 10K, Rebuilt Engine, Hyster FS Winch, Angle Dozer With Twin Tilt, U/C 50%+, New Starter, New Transfer Pump. Runs and Operates Well\$23,000



2005 CAT 527, 13,000 hrs., Swinger, New Engine, New U/C\$188,000



1987 CAT D5H, 14,487 hrs., Brush Rake Fixed Boom and Grapple, CAT Winch, Quad Tracks, U/C 70%+, RUNS GREAT!.....\$62,000



BTA, 4 Sp. Allison, 2000' Reach......\$179,000





2007 Kobelco SK290 LC, 330 Large U/C, 13,500 hrs., ATS, Jewell Package\$95,000



2001 International Log Truck, 578,000 hrs., CAT 550, 18 Sp.+ Brownie, Drop Axle, QC, Fifth Wheel Plate, Walking Beam Pad, Excellent Rubber, HD Front Axle, 46 K RR's, Built Heavy to Low Boy..... NEW PRICE \$47,000



Get more info on our publication, contact us and look through back issues...

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LOGGERS WORLD

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8

FEATURED IN THIS MONTH'S ISSUE

WARBENTON FIBER -NYGAARD LOGGING

State F

WARRENTON DREGON

Warrenton, Ore. is just across the water from Astoria. The first settlement for Warrenton was laid out in 1848 and served as the first county seat for Clatsop County, Ore. Fort Stevens was built in the Warrenton area in 1863 and remains preserved as part of the Lewis and Clark National and State Historical Parks. Warrenton currently has roughly 5,000 people. **WARRENTON FIBER - NYGAARD LOGGING**

Warrenton Fiber and Nygaard Logging employs 110 people in the Northwestern corner of Oregon where the Columbia River meets the Pacific. Martin Nygaard began Warrenton Fiber in 1982 and would eventually merge with his sons' logging company Nygaard Logging. The company has three tower sides and two shovel sides and an inventory of over 70 pieces of machinery.

at and



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bunching grapple, 6-way dozer, tri-rails, near-new V-Trac rails/sprockets, 15,075 hours on meter......\$158,000



2011 JD 648H, direct drive, single-function boom w/grapple, winch, 2 new/2 very good 30.5 tires, runs & shifts well, 5,590 hours......\$99,500

BOOM & GRAPPLE FOR JD 648G II, dual-function.....\$5,500



2008 CAT 535C, shows 7,526 hrs w/500 hrs on transmission by CAT dealer, cab, dual boom, grapple, NO winch, 2 new/2 very good 30.5 tires, 20-hole wheels, HD axle, runs & shifts well......\$87,500



1988 CAT 518 SKIDDER, Esco grapple, NO winch, 3304 @ 130hp, runs & shifts well, 23.1 tires: 2 very good, 2 @ 10-15%. We have 2 new tires @ \$2,500 each,......or \$30,000 with 2 new tires



1996 CAT 515, Esco boom & grapple, winch, 23.1 tires, just off job......CALL



1999 THUNDERBIRD 1236DL, Pierce HSD 3345 upper, good working order, just off job, estimated 17,062 hours, consigned, call for location......\$57,500

CAT 966C LOG FORKS, pin on, fair condition.....\$2,500

PIERCE HEEL RACK, removed from CAT 229 log loader, good condition, approx. 99" long, 3" main pin....\$2,500

MANN BRUSH RAKE FOR CAT D4H/D5H, approx. 91" wide, 53" tall pin to tip, 7 tines......\$3,000



CAT D6H, grapple, fixed boom, NO winch, S/U blade, differential steer, good UC , just arrived......CALL





2002 BANDIT BEAST 3680 HORIZONTAL GRINDER, CAT C15 @ 525 hp, Tier II, pintle hitch, 6 NEW Michelin tires, 7,700 hrs, runs well, new paint......\$85,000



1994 CTR 314SCD, pull-thru delimber, JD power, measuring table, one saw, radio control......\$18,500







2006 KOBELCO SK250 LOG LOADER, Jewell Shovel Logger Buildup, Jewell grapple, h&w, 24" tracks, forestry cab, rock guards, good UC, runs well, just off job, trade-in, 12,953 hrs.......\$85,000







1987 PEERLESS LONG LOG TRAILER, bunks w/welded extensions, alloy wheels w/8 new radials, very good brakes/drums, w/truck bunk to match, complete new scale package 4-5 years ago (no paperwork)......\$12,000



PROLENC SNUB-BERS for skidders, in stockCALL SAWHEAD, 24" cut, 30 degree rotation, approx 8,380 lbs., fits JD 959J and others......\$40,000



2012 VOLVO G990, Tier III, 265 hp, Volvo 11 speed transmission, 16' board, push block, rear ripper, joy stick controls w/steering wheel, 20.5 radials, super clean, prior demo rental unit, 967 hours, snow wing available......\$150,000



2009 CAT 160M VHP PLUS, new 17.5x25 radials, 16' board, rear ripper, push block, side shift, joy sticks, accumulators, aux hyd, 7,774 hrs (ECM shows 2,027 at idle), former government unit......\$140,000



2010 JD 872GP, 6WD, 14' board, rear ripper, push block, NEW 17.5x25 radials, cab, AC, heat, radio, 8,876 hours, NEW paint, just arrived......\$142,500





2013 Hyundai HL757TH-9, Tier III Cummins, 3.6 yd bucket, hyd QC, good 20.5x25 tires, cab, AC, 2,604 hrs, good loader.....\$78,500



2013 CASE 621F, 3rd valve, JRB QC, 3.5 yard bucket, new 20.5x25 26-ply tires, AC, heat, 2,943 hours, lease return, clean.....\$100,000

2012 CASE 621F, 3rd valve, QC, 4-yard bkt, ride control, NEW 20.5x25 tires, AC, heat, radio, lease return, 4,428 hrs......\$90,000



2008 CASE 621E, Tink roll-out bucket, 3rd valve, AC, cab, NEW 20.5x25 24-ply tires, runs & shifts well......\$65,000



2012 KOMATSU PC360LC-10, Tier 4, 30" dig bkt, 10'6" stick, 33 1/2" pads, lube system, cab guard, rear camera, AC, 2,182 hrs, priced to sell!!!.....\$185,000



2013 VOLVO ECR235DL, Volvo QC, 40" Volvo bucket, aux hyd, 9'6" stick, AC, very clean low hour machine, just off jog, 1,988 hours.....\$125,000



2007 CAT 328D LCR, smooth-edge clean up bucket, hydraulic QC, auxiliary hydraulics, 10'6" stick, very good condition, 6,148 hours......\$130,000



2012 KOBELCO SK260-9, 48" bucket, standard stick, aux hyd, , IT Tier 4 @ 176 hp, very clean, 2,201 hrs..........\$99.000



2010 VOLVO EC210CL, QC, bucket, 9'6" stick, aux hyd, AC, rear view camera, 4,313 hours, just off rent.....\$80,000



2008 IHC 8600SBA 4,000 GALLON WATER TRUCK, 3 axle, Cummins engine @ 410 hp, 10 speed, air ride, NEW 2015 Randco water system, front, side & rear sprays, hose reel, 8 new drive tires, 489,560 miles......\$57,500



1999 STERLING L8513 2,000 GALLON WATER TRUCK, 2016 Randco tank, hose reel, hydrant fill, CAT engine, manual transmission, alloy wheels......\$32,000

WARRENTON FIBER & NYGAARD LOGGING - WARRENTON, ORE.



The Nygaards Play a Big Part in the Logging History-Rich Northwestern Corner of Oregon

Story by Brandon Hansen

For Loggers World oing on four generations, Warrenton Fiber-Nygaard Logging has spent many years out in the woods of Northwestern Oregon. Beginning when Andrew Nygaard moved from Norway in 1926 to the family business' current location on Tansy Point in Warrenton Oregon, the company has served as a community staple for decades.

Martin Nygaard and his two sons - John and David oversee a company with over 100 employees, five logging sides and their own chipping mill that can transport product on the deep water of the Columbia River.

MOVING FROM NORWAY The Warrenton and Astoria

> (Continued on Page 11) See "Nygaard"



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Nygaard

(Continued from Page 10)

area in Northwestern Oregon isn't 👳 short on great views of the Pacific Northwest, nor is it short on logging history. So it's fitting that located at Tansy Point where the Columbia River \ge meets the Pacific Ocean is a company like Warrenton Fiber and Nygaard Logging.

While three generations of Nygaards work for the company currently, the story for the Warrenton logging company actually began in 1929 when Andrew Nygaard came from Norway and began a rafting business on the Nehalem River near Wheeler, Oregon. Andrew's son, Martin would grow up log rafting and logging as well. He got his start by picking up and selling bark and put himself through college working on log booms, graduating from Oregon State University in 1951 with a degree in Forest Engineering.

To this day, Martin still owns a parking spot outside of the Beavers' Reser Stadium and claims the spot costs more than tuition for his degree. The same year he graduated, he married his high school sweetheart, Doris Whetstone and returned to Warrenton to work for his father and uncle.

It seemed natural that Martin began his own logging company in 1958 with a D7 cat and a rented log loader.

> (Continued on Page 13 See "Nygaard"



2006 Cat 532 S/N 053200177 Quadco 24" intermittent saw, 360° rotation, 6,000 hrs.

\$361,000



2004 John Deere 1710D S/N D000525 Forwarder, 15,000 hrs., ready to work

\$185,000

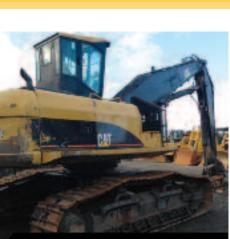
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2005 Timbco 475EXL S/N CW4C2641080405 24" 360 degree rotation head, new bottom, 6,507 hrs., ready to harvest

\$161,600

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2006 Cat 325C S/N CS3M01018 Cat 60" grapple, 27.5" two bar track pads, cold start package, full forestry guarding package, raised hydraulic tilting cab, 17,200 hrs.

\$149 500

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12



12

WORKING ON A PIECE FOR GREENWOOD is Thunderbird TMY-70 yarder operator Levi Burke (top left) - who has been with Nygaard Logging for 15 years and CAT shovel operator Chris Champagne (top right) who has worked 12 years out in the woods. The yarder was running an Eagle carriage and Jamie Pellam, Joe Lee, Mathew Dodge and Jeff Doney were down in the brush as the rigging crew.





Nygaard

(Continued from Page 11)

He expanded to three log trucks and a crew of five men by 1963. SELLING AND BUYING

Martin logged for 14 years, then sold the company to Dant and Russell. He became Vice President of Logging Operations for D&R in 1972. In 1982, Martin got back into logging by buying a logging division back from D&R and started a pulp log chipping operation at Tongue Point in Astoria using all mobile chipping equipment. That was the beginning of Warrenton Fiber.

Martin's sons John and David began Nygaard Bros. Logging in 1978 with a D6 Cat, a Berger tower, a Barco log loader and three log trucks. They worked side by side with Warrenton Fiber until the two companies formally merged in 1999.

"We had always worked during the summers in the woods," John said. "In fact I don't think we had much for summers, we were always working." A big change for Warrenton Fiber happened in 1986 when it moved from its location at Tongue Point to its current location - a 40acre area leased from the city called Tansy Point.

"It was all underdeveloped and we had to clear it and rock it," Martin said.

The location is now the hub for Nygaard Logging, with a truck and tire shop, the entire chipping operation and a 750-foot deep water berth and a separate wood chip barge loading berth for transit on the Columbia River. This allows Warrenton Fiber and Nygaard Logging to transport to paper mills and customers as far away as Lewiston, Idaho.

David and John's sister Mardi operates the scales at their Warrenton location which has a steady stream of trucks coming and going.

OUT IN THE WOODS TODAY

Nygaard currently employs 110 people, not including sub contractors. In 2007, the company paid out over \$4 million in direct payroll and an additional \$7 million to local businesses and subcontractors. They now run three tower sides and two shovel sides, while owning 70 pieces of machinery.

Nygaard does their equipment business with Pete Wood from Peterson CAT in Portland Ore. John swears by CATs calling them the best log loaders out there.

They're also heavily involved in road building. Nygaard builds 20 miles of new road each year along with rehabbing other logging roads. They have a commercial rock pit in Olney, Ore with a fiveman crew that runs a three-stage crusher.

"We have our own portable rock crusher and it keeps the guys working there year round," John said.

With a company of this size, there's lots of product moving, so Nygaard employs 10 log trucks, four lowboys and five dump trucks. Kenworth is the truck of choice for the Warrenton company.

"And a lot of pickups," Martin said.

EMPLOYEE-MINDED

Asked what has been key for their family company throughout the years, each Nygaard will tell you it's the employees.

"All of our people are damn good help," Martin said. "Most of them have been with us for 20 or more years now."

On a jobsite, you'll find operator Jeff Harms who has been with the company 21 years or Levi Burke who has been with the company for 15 years. Operator Jon Anderson has been with the company for 25 years and has been in the woods for 40 years. He was one of the company's first logloader operators.

Don Pearson has been running yarder for Nygaard for 30 years. When Loggers World visited the Naselle, Wash. jobsite where Don was running yarder, Don recalled how his Dad, Swede Pearson who immigrated from Sweden also logged in the 1920s in the same area.

(Continued on Page 14)



LOG LOADERS

LOG LOADERS
2011 Cat 330DFM, w/Cat grapple 8,000 hrs nice loaderPOR
2006 Cat 324DFM, w/Pierce grapple 11,000 hrs good u/cPOR
1997 Cat 322, recent rblt motor and pump, good u/c\$62,500
2004 Cat 322C, w/Pierce grapple, forestry cab, rblt motor, 15,400 hrs\$95,000
2013 Doosan DX300, w/Jewell grapple 3,600 hrs\$217,500
2005 Doosan 300, w/Jewell grapple rblt motor & cyl\$92,500
2014 Madill 3800C, w/Jewell grapple very low hrs like new condPOR
2002 Link-Belt 290, w/Jewell grapple, 17,000 hrs, forestry cab\$32,500
2007 JD 3554, w/Pierce grapple, 6,000 hrs, excellent cond\$225,000
2008 JD 2554, Jewell grapple, 11,200 hrs., new u/c & rebushed & pump drive\$180,000
2013 Hitachi ZX-270, w/Pierce grapple, 6,000 hrs, very good condPOR
2013 Hitachi ZX-240, w/Pierce grapple, forestry cab, 6,000 hrs, new motor, excellent cond\$220,000
2013 Hitachi ZX-370, w/Jewell grapple, 5,000 hrs, good cond\$335,000
2005 Kobelco SK 210, w/Jewell, recent pump & u/c, 19,000 hrs\$72,500
2008 Kobelco SK 350, w/Jewell grapple, 11,500 hrs\$170,000
DELIMBERS
2014 JD 3754 , w/2014 Waratah 624C xlent condPOR
2008 JD 2054 , w/2008 Waratah 622B, 3,000 hrs on pump, 40% u/c, recent rblt head
2006 JD 2054, w/06 Waratah 622B recent new motor & rblt pump good u/c\$72,500
2005 JD 3554, w/2005 Waratah 624, complete rblt head, new pump, low hrs on motor, good u/c\$170,000
2006 Link-Belt LX210, w/2006 Waratah 622B, good u/c, forestry cab\$60,000
2006 Komatsu PC200, w/2006 Waratah 622B, new pump, rotex & swing box, head is in good cond\$60,000
2006 Hitachi 200, w/2006 Waratah 622B, 17,000 hrs, good cond\$ 72,500
2011 Tigercat 855C, w/624 Super Waratah, 9,200 hrs, 50% u/c, excellent cond\$ 210,000
2006 Cat 320CLL, w/06 Waratah 622B, 8,000 hrs, logger front w/ Cat grapple, very good condPOR
2003 Cat 330B, w/624 Super Waratah good condPOR
1994 Cat EL240LL, w/Waratah 620, log loader front, runs good\$29,500
2003 Waratah 622, w/comp, controls, we can install on your machine\$37,500
2013 Pierce GP, w/comp. and controls, 2,500 hrs & filter box, like new cond\$80,000
2013 Link-Belt 290X2, w/Denharco 4450, 8,900 hrs, xlent cond\$349,500
1996 Hitachi 270, w/DM 3500, recent boom & boom drive, good cond \$29,500
2005 Madill 1236, w/DM 4400, good u/c, recent bushings, nice cond\$85,000
2003 Daewoo 300, w/DM 4400, 15,000 hrs, recent pump, good u/c, 3/4 chain on top & butt saw \$80,000

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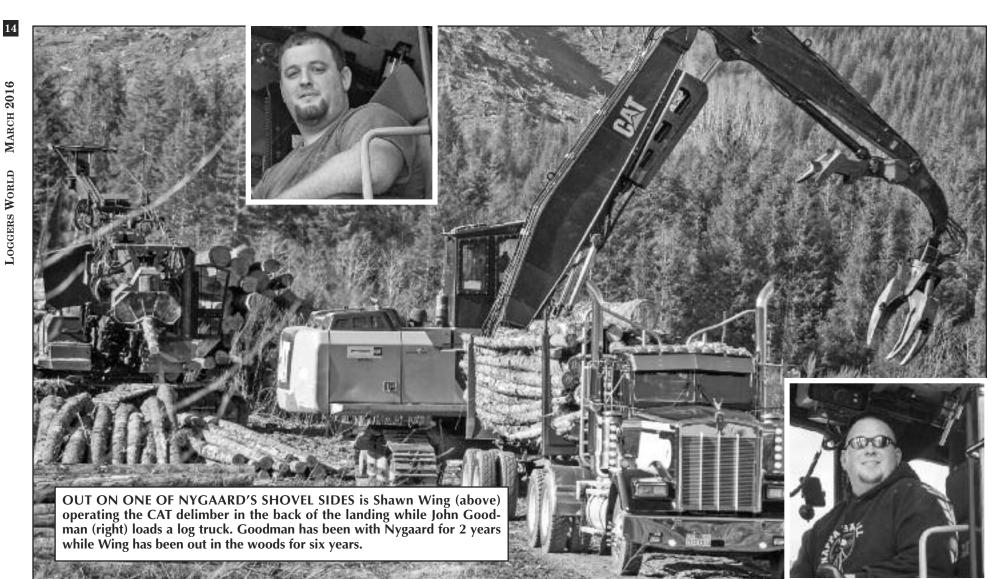
BUNCHERS

2005 Tigercat LX830, rblt 23" saw, good u/c, recent repairs, 17,000 hrs.......\$145,000 2007 Tigercat LX870C, 23" Tigercat 5702 saw, new Cummins power, good u/c, 10,100 hrs, exc. cond..\$199,000 2004 Timbco 445EXL, w/Quadco 22" hot saw, 12,000 hrs, good cond\$135,000 2001 Timbco 445D, w/Quadco 22" hot saw, 12,500 hrs, good u/c, c/w 28" bars saw also.....\$70,000 1999 Timbco 445D, w/32" bar saw, good u/c, 12,000 hrs, recent motor, pump, travel motors, good u/c.\$79,000 1994 Timbco 430, w/28" bar saw, Cummins power, Rexroth hyd., good cond...\$39,500 SKIDDERS & DOZERS & GRADERS

2010 JD 848H, dual fnctn 360 grapple, 7,000 hrs,1000 hrs on new motor, good rubber......\$130,000 2010 JD 748H, bunching grapple, dual fnctn boom, rears 90%, front 30%, 1 set chains, 5200 hrs.\$145,000 2006 JD 648G III, dual fnctn bunching grapple, 8,000 hrs, good cond\$85,000 1999 TJ 460, dual fnctn boom, bunching grapple, good rubber, nice skidder....\$55,000 2010 Cat 517, swing boom, only 2,800 hrs, auto lube system, new rails & shoes, like new cond. \$250,000 1977 Cat D6D, w/winch and log arch, good condition.....\$42,500 Cat D8K, w/winch, angle blade w/ tilt, screen & glassed cab, sweeps, work lights..\$35,000 YARDERS & SWING YARDERS

Diamond D210, rbit yarder, excellent cond\$325,000
Link-Belt LS98, Cummins 855 power\$50,000
Madill 122, just completed major rebuild, 8V92 power, 3 guyline\$375,000
Madill 071, two speed trans, rblt Detroit 8V71T & torque, 4 guyline, water on all drums, good u/c one of the last 071 built\$165,000
Madill 071, rblt Detroit 8V92T & torque, 4 guylines, good u/c, high speed gear, w/ lines\$119,000
Christy 3D, trl. Mount, Cummins power, Allison trans, 50' tower w/Eaglet car\$60,000
1997 T-Bird TY80, trl, T100, 7 guyline, Cummins 855 Twin Disk, 5 speed trans, 5 drums, Eatons \$275,000
T-Bird TY90, T100HD trl, 8 guylines 1 3/8", Cummins KTA 1150, new paint, xlent cond \$450,000
T-Bird TY90, T100HD trl, 7 guyline 1 3/8", Cummins KTA 1150, good lines, ready to log \$275,000
T-Bird TMY45, self prop, on rubber, rblt 903 Cummins & torque, good lines, ready to logPOR
Skagit 737, T100 trl, 7 guyline 1 1/4", Cummins 855, Allison, water on all drums\$169,500
Washington 137, Slackliner, T90 self prop., Cat 3408, 8 guyline 1"3/8 yarder \$160,000
MOTORIZED CARRIAGES

2001 Boman IV, Deutz power, w/bugs, 2,200 hrs, rblt car	37,500
2003 Boman V, high hp Detuz, good car	POR
2013 7900, excellent cond\$	570,000
2010 Boman M5, good cond., w/radios\$	50,000



Nygaard

(Continued from Page 13)

"It's kind of ironic I'm near the end of my career where 95 years ago he began his," Don said. "I tell people I'm too old to retire. I enjoy this crew, they keep me going. It's a good family company to work for."

Ben Flues, who has been working for Nygaard Logging since 1982 and spent 20 years out on the rigging crew, is now the woods

boss but he prefers to be called the safety guy.

"I go out there and do what they need me to do," Ben said. "The owners treat us good and they'll do anything to keep us busy. If times are slow, they'll find stuff or log their own property to keep us going.

Going from rigging crew to dealing with more office-oriented work, Flues said that the atmosphere is good at Nygaard but he also feels sorry for the company

secretaries dealing with his printer jams and calamities.

Mary Iverson serves as the company's office manager, while Randy Blair is the company's log buyer and Mike O'Bryan and Troy Lindgren are Nygaard's foresters. **COMMUNITY MINDED** AS WELL

Nygaard has no problem supporting their employees or helping sponsor their kids baseball teams and buying 4-H animals. The company is very community

minded and it's easy to see that.

Martin was named the Associated Oregon Loggers "Logger of the Year" in 2007, and the company supports many local charities including the Columbia Memorial Hospital, Clatsop Community College and the Columbia River Martime Museum. Martin also received the Western Outstanding Chip Supplier Award from the Forest Resources Association.

(Continued on Page 16)



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2005 Link-Belt 240LXDHP with Waratah 622 head, 11, 345 hours,

019405 Call for Price

2005 Link-Belt 210LX, w/LogMax 7000, 7200 hours, Spokane, WA, #018155.....\$185,000

2004 L870, single grousers, ST5702 hotsaw, new under carriage in 2012, 17,850 hours, #020000\$144,500

Madill T2550 Logger, 13,397 hours.#020793...... Call for Price

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LOG LOADERS



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\$179,500











2012 Kobelco SK295. UM61781, forestry cab,

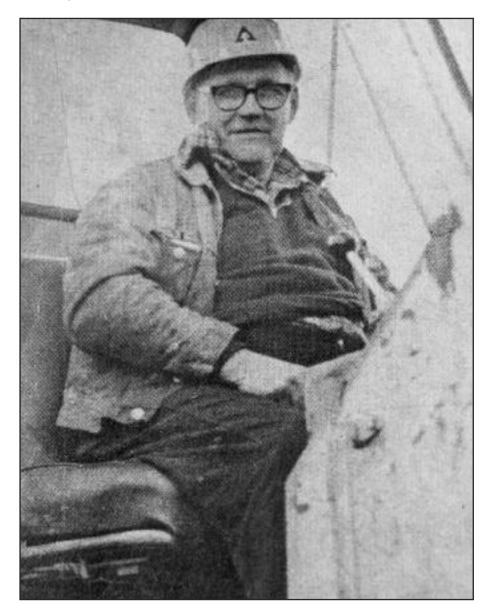




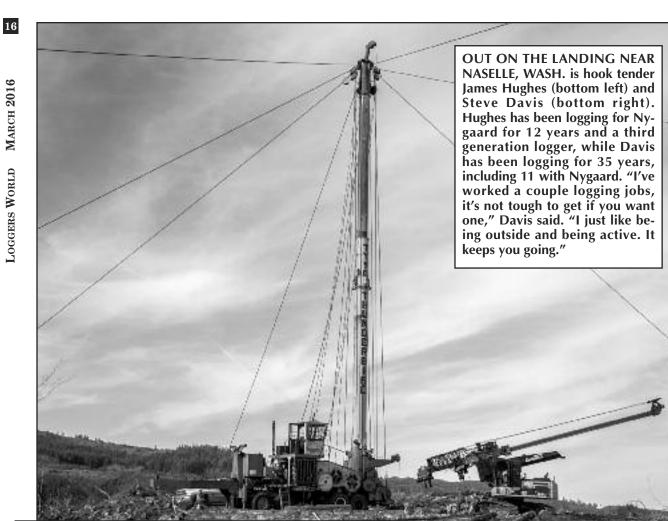




WOODS BOSS Ben Flues poses with yarder operator Don Pearson out on the landing near Naselle, Wash. Flues has been with Nygaard since 1982 and knows Pearson well, as he's run yarder for Nygaard for 30 years.



FROM THE MARCH 1979 ISSUE OF LOGGERS WORLD is Don Pearson's dad Swede Pearson who began logging in 1920s. "This man. At the controls of a BU-90 Yarder for Grays River Logging Company, the caption reads "This man has been a logger longer than most of us have lived."







Nygaard

(Continued from Page 14)

Martin also served with the Oregon National Guard for 14 years and retired as a captain after commanding E Company, 162nd Brigade, 41st Division at Camp Rilea.

John now runs the logging and road construction parts of the business while David says he goes around "putting out fires.". Martin officially retired in 1995, but it has been more of a retirement in name as Martin still shows up for work except when there is an Oregon State Beavers football game to attend.

"Dad's joke is that we're getting up in years and in 10 years he's going to have to hire a whole new crew," David said with a laugh. "He's the one that asks all the questions that we have to answer."

Nygaard Logging currently serves accounts with Weyerhauser, Stimson, Greenwood, Hampton, Boise-Cascade and Georgia Pacific. They'll operate between Aberdeen, Wash. to Tillamook, Ore. The company also owns about 3,000 acres of land in Clatsop County.

John Nygaard's son, also named John, has joined the company as an attorney so the family tradition is continuing for the company. Finding new blood has been tough for the company as high school graduates aren't as eager to go out into the woods as once before.

Warrenton Fiber and Nygaard Logging have been around for years, diversifying their business practices and treating their employees right.

"Good employees and good equipment," David said has been the key all these years.

When it comes to telling the story about the history of Warrenton and Astoria, it's hard to leave out Nygaard and the other dedicated logging companies. And as each new generation of Nygaards join the company, it looks as if they'll continue to write that local business history. $\langle H \rangle$

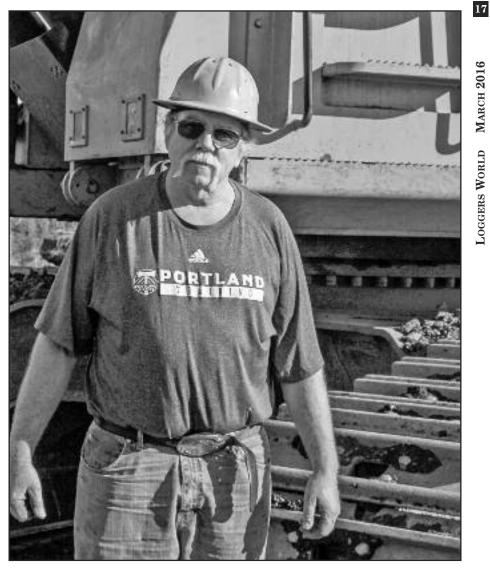




RUNNING DELIMBER for Nygaard is Jim Perdew (left), who has been working in the woods for 24 years. Both his dad and brother also work in the timber industry. Ken Kjelland operates shovel for the Warrenton-based logging company. Kjelland has been with the company for nine years and has been in the woods for 35 years. Ken began his career skidding.



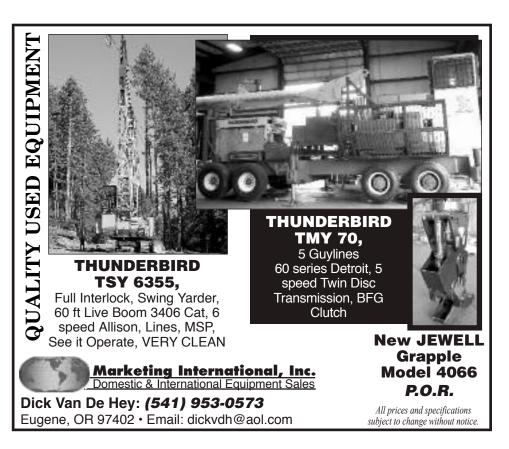
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IN THE OFFICE for Warrenton Fiber-Nygaard Logging is office manager Mary Iverson (top left), log buyer Randy Blair (middle left) - who keeps the yard plenty full and company forester Troy Lingren (bot-tom left). Longtime employee Marty Bellingham (below) has worked for Nygaard for 41 years and has run excavator for 33 years.



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NYGAARD HAS **QUITE A FEW LONG-**TIME EMPLOYEES. **Darrel Ferguson (far** left) has been with Nygaard for 31 years and has ran log loader for 28 years. Jon Anderson (left) has been with the company for 25 years and has been in the woods for 40 years. Anderson runs his CAT 568 shovel in the photo below.





LOGGERS WORLD

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EYES IN CABLES BY BRIAN TUOR

HAND SPLICED EYES IN WIRE ROPES IN LOGGING

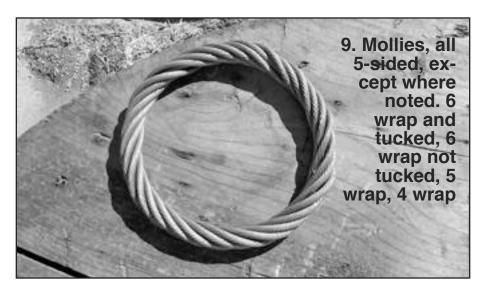
By Brian Tour For Loggers World

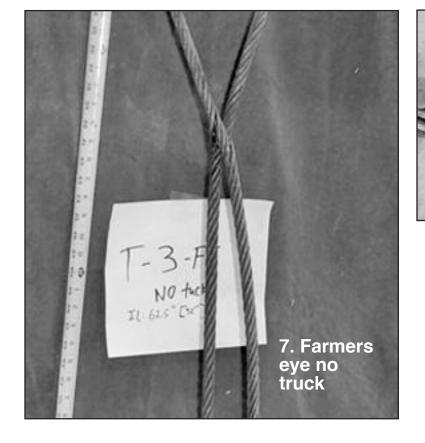
(EDITOR'S NOTE: This is a two-part series, as Brian took a look at six eyes in last month's issue as well.)

et another? we strong is one eye compared to another? Ask twenty loggers that question and you might get 19 different answers, heck you might get 21 different answers. One logger will swear by a 4 tuck west coast loggers eye, while the next one will swear at it.

We decided to splice and pull test the different types of eyes to help shed some light on this subject.

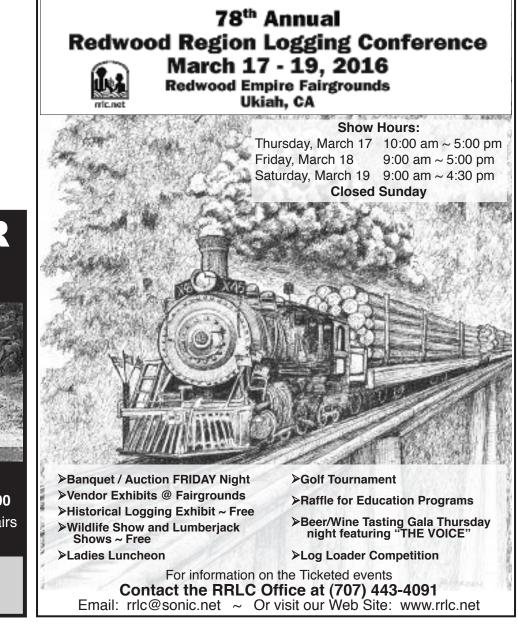
The tests were as follows.. (See Page 23 for results)





A Dellad ave ending as formers and advand

8. Rolled eye splice, no farmers eye, each strand rolled around one strand three times.

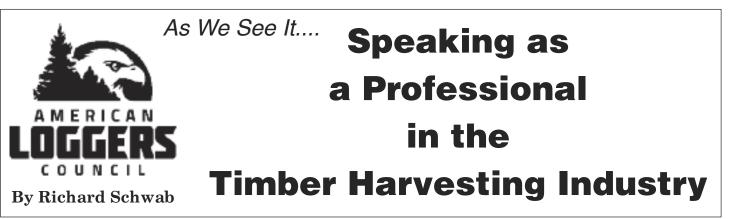


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 $\mathbf{20}$



Today's forest management is shaped by public **policy.** The laws and rules regulating it are shaped by public perception and opinion. When it comes to protecting and sustainably utilizing our natural resources, the men and women working in forestry and the logging industry have knowledge and experience few others can match.

Yet simply providing information to policymakers isn't enough. Timber harvesting professionals need to be engaged in the process and take advantage of opportunities to positively engage policymakers at hearings, town halls and other public meetings. Importantly, professionals must be able to interpret their knowledge and experience in a way politicians and the general public can understand. In a Journal of Forestry article written by Paul Adams of Oregon State and Dave Cleaves of the U.S. Forest Service, the authors write that "If we don't do a good job of providing 'knowledge services,' citizens and decision makers will develop judgments without us..."

This article was written in 1993, and two decades later it's as relevant as ever. Today we are living with the results of policies that were largely shaped by misconceptions of the forest products industry. Fortunately, opportunities still exist for professionals to get involved and help change forest management for the better. Originally written as advice for foresters. Adams and Cleaves offer a number of tips that all industry professionals can use to better communicate their knowledge and experience on the issues. Here are just a few:

DESCRIBE YOURSELF

Give your name and any groups that you belong to or represent. Call attention to training or experience that relates to the issue at hand. Don't apologize for not having a Ph.D. or for not being a senior executive.

STATE YOUR CONCERN FOR NATURAL RESOURCES

Loggers nearly always have a strong and compelling interest in sound stewardship of natural resources. When dealing with contentious issues, ²¹ this concern may not be readily apparent and then your message may be less effective.

OFFER A PERSPECTIVE OFFER A PERSPECTIVE Don't be shy even if you are

not a journalist, scientist, or upper-level manager. Your 🚽 thoughts about an issue are $\hat{\mathbf{s}}$ no less valid, and your experience with on-the-ground timber harvesting techniques 🖇 may be impressive.

KEEP AT IT

Forestry issues are not resolved overnight. New issues will emerge and old ones will be revisited. Use these as opportunities to develop your knowledge, skills, and potential influence as a professional. Remember: no one can listen if you don't speak up!

Richard Schwab is the Procurement Manager for M.A. Rigoni, Inc., a full service timber harvesting and forest management company located in Perry, Florida.





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22

Summary Judgment....



 $\mathbf{22}$

Obama on Federal Coal: "Welcome Back, [Carter]"

LOGGERS WORLD

by William Perry Pendley

President Obama's plot to use the National Environmental Policy Act (NEPA) to kill federal coal mining with a thousand paper cuts is not the first time he has used NEPA to try to end energy development. Disturbingly, his scheme is a throwback to President Carter and a decadelong moratorium that ended only when President Reagan took office. Meanwhile millions of Americans, vast regions, and the nation's economy will suffer.

In 2009, the Obama administration settled a "sweetheart lawsuit" by environmental groups by agreeing to a NEPA study on oil and gas drilling in the Allegheny National Forest in northwestern Pennsylvania. The region had seen oil and gas activity since the nation's first successful oil well there in 1859, but Marcellus Shale gas foretold a boom the groups wanted to kill. Trouble was the settlement was illegal. A federal district court and the U.S. Court of Appeals for the Third Circuit vetoed the deal, ended the moratorium, which was to last years, put thousands of locals back to work, and saved a region from economic disaster.

States that mine federal coal may not be so lucky. The Ford

administration sought to end the Nixon administration's coal leasing moratorium, but NEPA, signed by Nixon in 1969, was in its ascendancy, with increased paperwork for federal agencies, suits by environmental groups, and judicial rulings on how much paperwork constitutes the requisite "hard look." In 1976, the Ford administration won a NEPA case at the Supreme Court of the United States, which sustained its limited view of NEPA's requirements as it prepared for coal leasing in Montana and Wyoming's Powder River Basin. In 1977, however, the Carter administration lost a NEPA challenge to its coal leasing program, declined to appeal, and embraced the central planning mandated by a federal judge. In fact, Carter officials while "toy[ing] with the idea of hiring a U.S. specialist in Soviet economic planning to look at the federal [coal] leasing program," spent the rest of the decade completing the plan.

The Reagan administration, although unhappy with the Carter program, recognized that "[l]ess than 1% of federal coal lands were under lease and new leasing had been at a virtual standstill since 1971" and that "35% of the coal...will come from



public lands," and thus implemented the program. From early 1981 to late 1983, Reagan officials leased 2.5 billion tons of federal coal, which netted \$128.6 million in bonuses, including 1.5 billion tons of coal beneath 32,000 acres in Montana and Wyoming.

In 1983, Reagan agreed with congressional calls for another review of the federal coal program. In late 1985, Reagan officials revealed the new program, which increased flexibility, was orderly and predictable for state and local governments and industry, promoted competition, assured fair market value, ensured adequate data, clarified surface owner consent, and established well-defined standards. Later minor modifications allowed more leasing to ensure continued production from Reagan era leases. Today, Wyoming leads the nation in coal production; its output exceeds that of the next top six coal-producing states combined. Obama intends to kill mining of all federal coal, and the jobs, communities, and foreign trade payments that go with it, to placate environmental groups that say the United States is not getting "fair market value" for its coal.

Reagan, to whom Obama compares himself, faced that issue in 1983. In his own hand, he wrote, "Now voices are being raised on the Hill saying that a moratorium should be put on the leasing of all coal bearing government lands. Totally forgotten is the fact that the American people as customers will end up paying for that coal. Included in the price will be the cost of the lease and even [the royalty paid to the government]. It seems to me [our lease sale] not only protected the government interests, [it showed] consideration for the ultimate consumer - you and me." Imagine that, a president concerned about "you and me."

Mr. Pendley, a Wyoming attorney, is President and Chief Legal Officer of Mountain States Legal Foundation and a regular columnist in Loggers World.

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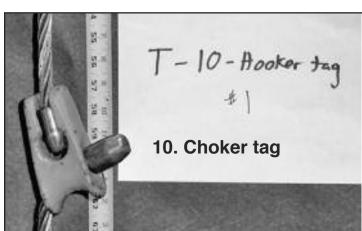
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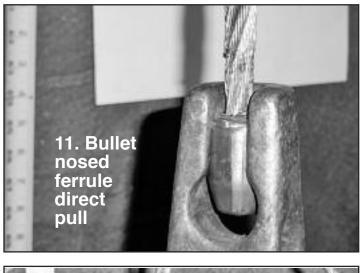


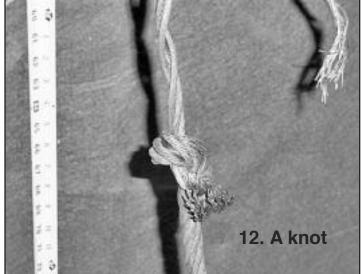
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HERE'S HOW THE EYES DID ...

All the splices were done by the same splicer to minimize the variation in technique which might otherwise af-fect the results. All the wire rope was taken off of the same reel and was all 9/16 inch in diameter. Summary of Results (expressed as a percentage

of the Breaking strength of the line)

West Coast 3 tuck loggers eye, with the core as strand 7 ...75 % West Coast 3 tuck loggers eye, with the core tucked with 4 81-82% West Coast 4 tuck loggers eye, with the core as strand 777 % (83)* *(Estimate that with core tucked with 4 this would go up in a similar fashion as the 3 tuck did)

Farmers Eye with no tucks	79	%
Farmers Eye with one tuck	78	%
Farmers Eye followed with a 3 tucks loggers eye splice	.73	%
Rolled Eye, tucked 4,3,2,1,1,1 (not farmers eye)	.81	%
New Zealand/Marine Eye, (Farmers eye then 3 rolled tucks)71	%
Colombian eye (Farmers eye then 3 tucks under 2 over2).	.75	%
Choker tag	69	%
Pressed knob, direct pull	74	%

Mollies

6 wrap, 5 sided, tucked ends	
6 wrap, 4,5,6 sided, no tucks	
5 wrap, 5 sided, no tucks	
4 wrap, 5 sided, no tucks	
Discussion of Results	

Objective

Our objective in conducting this investigation was to determine what, if any, variation there is in the strengths of the various splices and to determine if there are any that fall far enough below the rest so as to be a concern. In conducting these tests we used a very limited sample size, one to three specimens of each splice, and so have not addressed the magnitude of the variations which might be expected between splices. All the splices were done by the same splicer so we have not looked at the variations which could exist between splicers. Our goal was not to find the best splice or to recommend one splice over another.

How do splices fail

The splices that we tested cut themselves off, 1.)In the splice, 2.) close to the body of the cable away from the eye.

The West Coast Loggers Eyes were spliced using the core as strand number 7 so it was tucked the same as the other six strands. Some splicers tuck the core in with number 4 and leave it there. This variation in technique should not affect the results . However we found that it does affect the ultimate strength of the splice. In doing this splice we would advise tucking the core with 4 and forget it.

The test consisted of pulling , to destruction, 3 samples of each splice except where noted. Only one sample of each mollie was tested

The first thing that stands out to me overall is how similar the mode of failure is between the various splices. All of them failed at the base of the splice. As soon as you distort the original construction of the cable, you introduce a stress point which becomes the point of failure. In discussions with Michael Johnson of West Coast Wire Rope. he verified our observation in saying this is what he sees when breaking hand spliced eyes.

In the tests which we conducted, the strands which were cut and failed were always the strands which come from the

body of the cable rather than the strands that were ${f 23}$ tucked. The tucked strands cut off the load bearing strands that they were tucked under and over. Old Dogs and Bad Habits

When I was taught to splice, I was taught to treat the core as a 7th strand and to tuck it the same as the other six. This is a little different than the traditional practice of tucking the core in with the first tuck of strand 4 and then leaving it. From these tests, it appears that tucking the core as the seventh strand, is not a good practice. The West Coast Loggers Eyes that were spliced with the core as strand 7, failed at 6 to 7% less tension than those splice with the core tucked with 4. The core is bigger, forty percent of the diameter of the rope as opposed to only 30 percent for the strand, therefore creates a larger bend in the strands that it is tucked under. It is also harder because of its construction so creates more of a bend and stress point in the strands that it is either under or over.

What we did not compare

These tests are really limited in size and scope. Rigorous and statistically strong results would require a much larger number of tested eyes; as many as 10 - 20 of each eye. We did not compare different individuals splicing, this may make a difference in the strength of the splices. All of these eves were new and were not pulled in to take out any constructional stress, which may make the pulled in eye stronger? We did not compare mechanical fasteners to manually splicing the line. Different line sizes? Different line construction? Also, none of these eves were run to look at wear characteristics. Wear could possibly degrade one eye or mollie much more rapidly than another.

Caution: While the results of these tests are extremely interesting and enlightening, we are not and cannot recommend the use of any splice and or attachment procedure which is in violation of existing Cable Logging Safety codes. You should consult your local codes to determine the legality of any splice or attachment that you are contemplating using.

Farmers Eyes

The splices which begin with a farmers eye, also known as a Flemish eye, were all slightly weaker than the conventional three and four tuck loggers eye. However the magnitude of the difference is small. From 1 to 10 percent and the range of tensions at which they failed of-ten overlapped with the ranges of the "stronger" eyes.

If we look at how these eyes fail, as discussed above, we would not expect to see any difference in the strength of a normal 3 tuck loggers eye and a farmers eye followed by a three tuck loggers eye because the eye fails at the base of the splice before the forces get to the farmers eye. In fact what we did see was that the strongest farmers eye, three tuck was as strong as the strongest loggers eye three tuck and the weakest one was only slightly weaker than the weakest loggers eye. So these two splices appear to be similar in strength. Any choice between the two then would come down to wear and longevity.

Farmers Eve one tuck

When I first saw a farmers eye followed by one tuck, I shuddered, but was reassured that it was "pretty strong".

(Continued on Page 24)



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²⁴ Eyes

(Continued from Page 23)

So to find out, one way or another, we included it in this testing program. As it turns out 201 this splice was one of the strongest of the lot at 78%. From what was observed in how MARCH eyes fail , in the splice and where tucked strands pass under and over stands in the body of the line, it makes sense that with fewer tucks there will be less stress points.

To take it one step further, we pulled a farmers eye with no tucks behind it and it came out at 79%, slightly stronger than the one tuck although the difference was probably not statistically significant. In this case there are no tucks to introduce stress points and

Farmers Eye NO tucks

bends in the body of the rope. We rolled together a fairly long tail so it did not pull around the eye. The question remains , how short a tail can you have and still develop the full strength of the splice? More testing will be required. If we look at the strength of a farmers eye with a pressed sleeve it comes out at 90-95 %, according to Michael Johnson of West Coast Wire Rope , so eliminating the tucks and securing the ends obviously addresses some of the issues that we are seeing with the hand spliced eyes. Rolled splice

This splice begins like the loggers eve in that there is not a farmers eye formed but the end is just folded back and held along side the body of the cable. The first tucked strand is tucked under 4 strands of the main body of the cable, one of the strands that the first strand is under is dropped and the second strand to be tucked is tucked under the remaining 3. The third strand under 2, the fourth under 1 and the fifth and sixth are also under one each. Then each tucked strand is rolled around the strand that it is under, two more times.

This eye tested as strong as the 3 tuck loggers eye with the core in with 4 at 81% Colombian Eye

This is one I learned while in Colombia and so I felt it would be interesting to include it with the others. It begins with a farmers eye and then followed by tucking each stand under 2 then over 2, repeating this for 3 tucks. It came out at 75%

Knot As expected the knot failed at a fairly low tension. 49%, This raises questions as to using knots in strawline and whether there is a better method which will give more strength.

For instance, 3/8th haywire with eyes and ter or worse in specific applications. mollies would be stronger than 7/16th strawline with hooks and knots. In addition it would weigh almost 40 % less. There are several variations within the industry that are used, such as tying the hook inside the eye, and using only eyes and either mollies or hindu connectors. Obviously we need to do more testing.

Choker Tag

This consists of inserting the knob of one choker into the bell of another to extend them and reach further. This set up failed at 69 %with a range of less than 2%, which is not much less than some of the eyes. However the strongest eyes were still 12 % stronger than this set up and I would speculate that the eyes will wear better and longer than the end of the cable that is being bent so severely.

Eye splices are in general stronger than tagged out chokers and I personally would not use tagged out chokers for tail, lift and intermediate support guyline extensions. However, I would not be willing, at this time, to require that they not be used. Conclusions

I think that it is safe to say that none of the eye splices being used in the industry today need to be rejected or discontinued due to their strength. Different splices may work bet-

The hand spliced eyes which we tested, all develop sufficient strength to withstand the tension that they should see in the field. In logging we design cable systems with a factor of safety of 3 which means that we design using 33-1/3 % of the ultimate strength of the cable as our static tension , and then assume that the dynamic loads will not generate additional tensions exceeding the elastic limits of the cables. The elastic limit being somewhere around 2/3 of the ultimate. So if we operate within the limits that these systems are design for, we should have no problems, regardless of which eye we choose.

I would like to continue testing various components of the cable systems that we use in harvesting timber and would like to thank those who have assisted to this point. Jeff Wimer, Instructor at Oregon State University as well as his logging crew and testing lab, West Coast Wire Rope in Portland, Oregon, Cascade Rigging in Clackamas, Oregon. Additional thanks to Scott Sword , Roberts Supply and Dick Gilkison for donating wire rope, and of course my wife for putting up with the greasy clothes.

Any suggestions or comments will be welcome at www.cableloggingspecialist.com , or bltuor@skyride.net.

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By Loggers World

Students at W.F. West High School in Chehalis, Wash. got about as hands on a look at a log loader as they could without leaving the classroom.

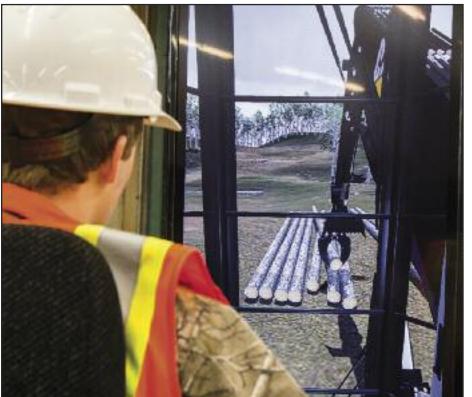
Brett Goss, a sales representative for NC Machinery based in Chehalis was able to show off CAT's \$80,000 log loader simulator which is currently touring the west coast and Canada. It simulates a CAT 325D shovel right down to how it would move and jerk while operating. "Most of the time you just learn on the job," Goss said. "This lets them do job training in a controlled enviroment."

The simulator spent two full days at the school. Complete with an operators seat and reallife controls of a shovel, the simulator showed students just how tough it is to load a log truck.

"Kids are excited to get in the seat and they want to try this thing out," Goss said.

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A W.F. WEST HIGH SCHOOL student operates the CAT log loader operator set up in the metal shop at the high school in Chehalis. Brett Goss of NC Machinery in Chehalis was able to bring the simulator down on to the school on loan from CAT. The simulator is the first of its kind.

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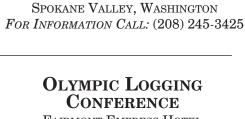
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Simulator

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Chris Guenther, a W.F. West shop teacher, liked how students could dive into very real industries - that many will actually partake in after graduation - in a safe environment.

"Its no different from a real machine, it tips if you take a long log," Goss said. "It's very realistic."

While a variety of simulators are avaliable for excavators, loaders and dozers, this simulator is the first one dedicated to logging.

"Nothing seems natural in a log loader and you'll see kids take a while to get used to it," Goss said. "But some of these kids have parents that own logging companies or dads' are loggers and they take right to it."

While it wasn't the latest version of Doom or Call of Duty,

Goss said kids were lining up and would try 3-4 times day to hop on the simulator.

When machines cost \$500,000 in real life and fuel is no cheap expense either, simulators could

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help loggers mitigate the danger and fuel-sucking that breaking in a green operator takes.

"It takes hundreds of dollars to just sit in a machine and practice," Goss said. "This impressed me in that we could teach guys the basics without that."

Goss was also impressed that a manufaturer like CAT was trying to give back to community and to kids.

STEER IT JUST LIKE A TANK, is the direction for a W.F. West student on CAT's \$80,000 simulator touring around the Western United States. Simulating a CAT 325 log loader, the machine was in Chehalis for just two days but got plenty of use as students lined up and patiently waited their turn to give virtual log truck drivers a load of logs.



FORCE TO BLACK

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