

# Tanky's Rigging Shack



(This column originally appeared in the March 1976 edition of Loggers World.)

Tou know I get so damned frustrated in You know I get so damined I this business that I could throw a rock thru my own window. There are things I'd like to say and write about yet I can't express them exactly as I mean them. I write some junk that seems clear to me and with correct meaning but when it comes out I find that to many people the meaning wasn't clear and it was misunderstood.

There are limitations to the written word. I'm finding that out.

There are many things happening that are of interest to me that may not be of interest to many of our fine Loggers World readers. That is my job, not to find out what interests me, but to work on what is interesting to the most readers.

For instance, the last Annual Meeting of the Associated Oregon Loggers was a dandy; good speakers, qualified people, and lots of logging information. Most of the information came from loggers, from loggers doing the things they were talking about. Now that is the way to get information. Get it from the guy that is doing it.

I made up my mind that we were going to cover this meeting as fully and as well as we could. I made pages of notes. Nodded my head in agreement five thousand four hundred and thirty times. Had my tape recorder in full recording position. Brought it all back to the office, poured some coffee, lit a smoke and studied and reviewed and started writing. I stuck to that typewriter like it was plastered to me.

Page after page of good valid logging advice and information and experiences. About 3:00 in the afternoon of the first day of this made me realize this was going to be the longest article that

I ever wrote. I wasn't half done and had a dozen completed pages.

There were three panels that especially needed repeating and reading and discussion. They were on: "Cable Logging", "Logging Costs and Cost Account-"Logging ing" and "Controlled Timber Falling". Had decided not to cover the "Logging Costs" panel because that will be out

in booklet form later, published by AOL, and I couldn't do it justice without using many sheets, forms and charts.

So that left me with the job of reporting on two panels. Cable Logging—which is mostly about long skyline logging. And Controlled Timber Falling--which was mostly about using pulling lines and hydraulic jacking equipment to fall big timber up hill.

And even that is a job. Takes lots of room. If I cut it down I cut down on the information and

the value because these logging speakers were talking about the nuts and bolts of doing the job. So no cutting down allowed. If I ran it like she came out it was going to be long. But long or not it came down to run it like it was or not to run it at all. What did I decide? I don't know because I haven't decided as yet. BUT--I believe the material is well worth the repeating and am sure that it is valuable information for loggers every-

Look at this: On these two panels we had loggers: Gary Briggs, Jim Briggs, Willis Peterson, Paul Weigel and Dave Burwell talking on how they are doing these particular jobs. You can't get better information closer to the operation than this.

Dr. Frank Schaumburg, from OSU, kept everyone leaning forward and paying strict attention while he talked for half an hour or so. This man is a learned critter and is a World Wide expert on Log Storage. He said that generally storing logs in water causes no bad environmental effect at all. The only time it would is when lots of logs are in a small pond. In fact, this contamination of water by logs has been blown out of proportion because there is normally no contamination. This makes EPA mad at him because he told the truth after four years of intensive work and research and experiments in this area. If you ever get a chance to meet and talk with this man by all means do so. He knows—that is his field and he is good at it.

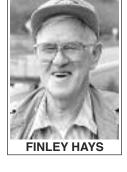
Keynote address was by Bob Dwyer, Dwyer Overseas Timber Products Company of Portland. Bob said that he was an old chokerman and looking for a job. He also said that like Old Soldiers, old chokermen sort of fade away. They get rotten butts and their rigging goes slack.

Let me quote from his speech: "First let's take a look at what we are doing with our resources. The first thing that is happening at the moment is that we are exporting our raw renewable products, Logs, to some nations, and importing finished lumber from others, to our disadvantage. Of course, many of us were delighted when the Japanese were taking so many logs form us, because in the short-term it created jobs for loggers and longshoremen and also created tremendous inflation of stumpage prices. Of course our

> friends in Canada were delighted because as we exported our logs it gave them a stronger market to ship their lumber by foreign carrier to our east coast. Due to the antiquated law called the Jones Act, which requires our noncompetitive American flag vessels to haul between American ports, Canadian lumber has a \$38.00 per thousand freight advantage to the East Coast of the United States. People do not realize that 85% of the lumber used in the New England states comes directly from Canada. The Canadian mills are de-

lighted when we put such restrictions on ourselves to their advantage. Because of these same shipping regulations, less than 10% of the Alaskan Timber is shipped into the United States. The majority of Alaskan Timber is controlled by Foreign interests and shipped from Alaska ports at prices that are half the current depressed prices here in America. Needless to

> (Continued on Page 3) See "Rigging Shack"



his Issue...

COVER PAGE PICTURE: MICHAEL BLUE operates E&G Logging, Inc.'s Komatsu/Valmet 430XL feller buncher with a Pierce 3440 bar saw, he's operated for them the past three years. The bar saw uses a GEM bar and Oregon chain and usually they run it for older patches and during the summers. Typically they run a Quadoo 22-inch hot saw. E&G is a mechanized ground skidding operation working most of the year. "I push hard to put in a 10-month season," Gould explained. They have a very versatile, and largely cross-trained seven man crew, which including Gould.

See "A Good Life." starting on Page 4

See "A Good Life," starting on Page 4

# 2 California Dreaming

STARTS ON PAGE 2 OF LOG TRUCKER - by Mike Crouse

2 RIGGING SHACK "CLASSIC" - by Finley Hays

4 "A Good Life"

E&G Logging, Inc • Bieber, California

17 As We See IT...

18 Idaho Woman Defeats Obama's TOP LAWYER ON GUNS

– by William Perry Pendley

21 ROUNDUP

22 IronMart

24 Show & Sell

27 Index/Coming Events



Founded in 1964 by Finley Hays Phone (360) 262-3376



Member and Supporter of the American Loggers Council Since 1994

EDITOR/PUBLISHER.....Michael P. Crouse EDITOR EMERITUS ......Finley Hays ADVERTISING MANAGER .....Kevin Core OFFICE.....Holly Larson

> **POSTMASTER:** Send address changes to:

LOGGERS WORLD PUBLICATIONS. 4206 Jackson Highway, Chehalis, WA 98532-8425

logworld@aol.com

—SUBSCRIPTION RATE (In U.S.A.): \$12.00 per year; Two years for \$20.00

LOGGERS WORLD PUBLICATIONS cannot and does not assume responsibility for the contents of any advertising in Loggers World. The representations made by advertising is the responsibility of the advertiser and not Loggers World. Loggers World does not knowingly accept advertising that is false or misleading. The limit of Loggers World liability in case of a mistake made in advertising copy by Loggers

Something to ponder on isn't it?

Another thing that Bob Dwyer said that makes me pause and thing a minute is: "What happened to the petroleum industry could happen in the timber industry in the not too distant future."

I quote Bob Dwyer one more time because I think this part of his speech is very, very important and is directed to us all—-

"May I close with this thought?

Oliver-Hammer Clothes Shop

Clothing the Working Man for **93 Years** 

Wesco Caulk Boots, Redwing, Carolina, Carhartt, North Star Gloves, Hickory Shirts, Logger "Riggin" Jeans and a Whole Lot More

(360) 855-0395

821 Metcalf, Sedro Woolley, WA 98284 The time has come when we in the industry must join hands with our suppliers and our employee unions to determine which direction our lives will go. Jointly we can reduce the many useless bureaus that call for endless public hearings and those intellectual NIH lists that are bogging down our free enterprise system through emotional scare tactics that do not square away with reality and the facts. Let's join together with our colleagues and competitors to eliminate the hundreds of thousands of nonproductive people that get between the producer and the ultimate consumer. If we can do this, we can cut down on inflation and can provide reasonably priced single family dwelligs for the American citizen. Thereby creating more capitalists and preserving our free enterprise system."

He believes this and I do too and I agree that a home owner is a member of the Capitalist System and the free enterprise system.

# WANTED

Alder, Maple, Douglas Fir, Cedar Hemlock, Cottonwood PULP LOGS

Land & Timber or Timber Only Ray Lemmons • 360-430-7040 Paul Hadaller • 360-431-9661 P.O. Box 278, 20 Fibre Way, Longview, WA. Office: 360-577-7112

# **Uphill timber falling**

You are going to hear a lot on this subject in the present and future. Almost everyplace that big timber is to be felled and bucked on steep ground it will be stipulated that it be fell uphill, or quartered uphill, so that it saves better. There seems to be two main ways of doing this. Using a donkey and pulling line or Hydraulic Falling equipment such as the Silvey Tree Savers. OR—-a combination of both

There is nothing new in this; Rosboro Lumber Company has been doing it for years, but it is coming on stronger all the time.

## **Cable logging systems**

Along with the other changes there will be more skyline logging. The Forest Service and the BLM and other Timber Sales Agencies are going to see to this. Probably high lead logging and ground skidding will be the hardest hit. Lots of gravity logging systems that can be done with high lead machines.

Would predict that machines such as the FMC are going to become more common and more acceptable. There is more and more concern about soil compaction due to Wheel Skidders and Bulldozers. The FMC track skidder has much less tendency to compact the soil. But hell, you knew that already—

no news to anyone.

One Timber Sale Officer told me that in his district for the next five years all sales will be thinning sales. Not only that but it will call for cable thinning in all cases. Which means small skyline machines and lateral yarding to the skyline.

Thinning logging is a bad combination for the logger because you have an expensive logging method getting out the cheapest logs. But it is being done successfully and there likely will be more of it.

The total picture is one of higher and higher logging costs in order to fit the scheme of better timber management, saving more scale in falling, better utilization and logging to protect the water.

Who'll pay for it? Why Old Joe Consumer will. Before we get done with all these schemes, plans and restrictions Old Joe Consumer will think that a two by four is made of gold instead of wood.

Already Joe Consumer can't afford to build himself a new house. The spread between what he is able to pay and what it costs to build a new home is going to get wider before it gets narrower.

Like the old English Proverb says: "He who makes not mistakes never makes anything."

And on that I'll shut up for a month.





# "A GOOD

# E&G Logging, Inc.

BIBBER, CALIFORNIA

by Mike Crouse

iving in and surrounded by Ithe forests in Northern California has been a perfect match for Neal Gould and his family the past several decades, and dating back to at least the early 70s when his father, Delbert began cutting timber as a profession.

"Dad started falling timber for a few years," he explained, "then went to the county for a while but was starving at that, so returned to falling timber, and it was from the timber falling he got together with Eades (a cousin of some sorts), but they'd known each other forever."

"Lenny Eades and Delbert (Neal's father) Delbert partnered up in 1976, and started falling timber together," Gould explained. "After a few years they bought some equipment: a small John Deere skidder, and an old track loader, and they started logging," as well. "At that point they incorporated and became E&G Logging, Inc. around 1978."

#### **Learning logging**

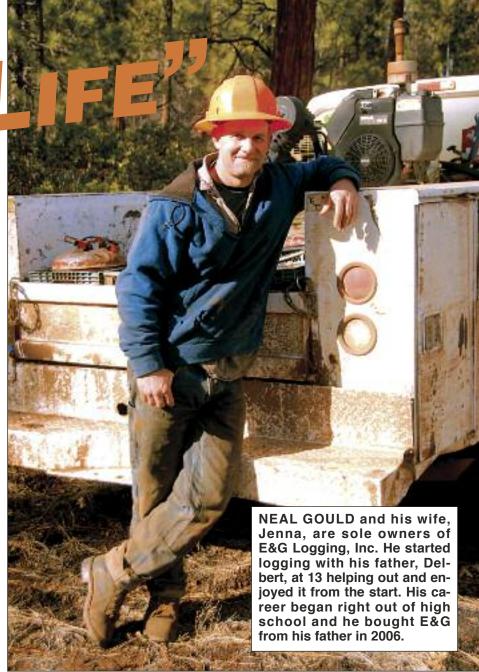
The second of Gould's off-L spring, Neal joined sister Stacie (three years older), in Mill City's (CA) hospital in April of 1970, although they made their home in nearby Lookout. As many kids raised in a forest setting, Neal's source of recreation, and some income came from learning logging alongside his father during the occasional weekend, breaks and summers. "I'd started logging when I was about 13 years old," Gould explained adding that, "... me and Lenny's son Scott would bump knots. Back then it was a kick. And when we were off for summer break we'd probably be out camping (at the logging site) and logging, so we'd work and play all summer long. It was a kick!"

As they grew, and learned, they were encouraged to do more. "We started skidding pretty young too,' he smiled then explained that, ...Dad and Lenny would kind of do the falling, we'd skid and bump up the logs."

### Joining the crew

Rollowing high school graduation, Gould went to work full time for E&G Logging, and not too surprisingly found out he liked it a lot though he explained, "...there were times (he wanted to try other options). I took off a few winters to do other things but realized it's what I wanted and I came back full time." He had considered college, but he explained, "I looked at college as partying a lot, and dad said if I wanted to do that I could pay for it myself," which dampened his enthusiasm, then he smiled adding, "I figured working in logging may be a

(Continued on Page 5) See "E&G Logging, Inc."





 $(Continued\ from\ Page\ 4)$ 

better option."

At that that point E&G was all conventional logging. "Primarily we were a one-side company, depending on the year. Some years we had enough equipment that we could operate two sides, but in reality, most the time, we were either a one big conventional logging side or two smaller sides." At that point they had three or four skidders, loaders, chasers, and their own cutting crew so they'd have "...as many as 15 guys. I was mainly falling timber then," Gould explained.

#### Mechanization

In 1995, E&G made the leap into mechanization with the purchase of a 1995 445 Timbco hydro-buncher with a Quadco 22-inch hot saw, which Neal Gould operated. "The break-in was interesting," he smiled, explaining coordinating cutting being in the right position and releasing when intended, took a few days to master. "I couldn't catch a tree,' he laughed but managed to adjust in very short order. After the initial break-in all went very well with that machine, which they ran nearly a dozen years. "That machine lasted longer than any of them.' They upgraded feller bunchers as needed, using the same Quadco hot saw in addition to using a bar saw

(Continued on Page 6)
See "E&G Logging, Inc."



HEADING TO THE LANDING with a turn in tow on one of E&G's two John Deere 648H grapple skidders.







#### **Authorized Dealer**

Sales, Parts & Service
Your #1 Established Forestry Equipment Dealer

Ask About Our Special
Financing: Up to 60 months
All offers subject to credit approval

# Cascade Trader has a Complete Line of new Doosan Log Loaders, Excavators & Wheel Loaders for your Logging & Construction Needs!

LOG LOADERS
NEW DOOSAN Excav. & LoadersP.O.R.
DOOSAN S 300 LL Log LoaderP.O.R.
DOOSAN S 800 LL Log Loaders\$80-90,000
CAT 320 C LL, '04,\$109,500
CAT 330C Log Loader, '05, for. cabP.O.R.
JD 690E Log Ldr, H/W, ExcellentP.O.R.
JD 2054LL, recent engine & rotek\$69,500
KOBELCO SK 250 Log Loader, for. cab\$69,500
KOBELCO SK350 Log Loader\$135,000
LINK-BELT 3400Q Logger\$44,500
PRENTICE 410, truck mounted\$12,500
PRENTICE 600B, on Pierce SP carrier\$19,500
SAMSUNG 210 Log Loader, cleanP.O.R.
T-BIRD 940 LoggerqP.O.R.
FELLER BUNCHERS, PROCESSORS
& FORWARDERS
Complete Barta & Carving for your

Complete Parts & Service for your

MORBARK 30 RXL Chiparvester	P.O.R.
MORBARK Model 27 Chiparvester	P.O.R.
T-BIRD 1240LL/Keto 10,000, clean	\$89,500
TIMBCO T-425C/Quadco 22"	\$45,000
TIMBCO T425B/Koehring Hotsaw	\$45,000
TIMBERJACK 933C Clambunk Forwards	er\$44,500
TIMBERJACK 2618 FB, disc saw	\$45,000
VALMET 500T/LogMax 4000	\$44,500
VALMET 921 Harvester, 965 head	
NOW IN STOCK: NEW WARATAH H	TC 623C
Harvester Head	
ALSO: Complete Parts & Service	
WARATAH/KETO Needs	P.O.R.

DOOSAN DL250 Whi Ldr, GP, low hours\$85,000 DOOSAN DL300 Wheel Loader .......\$95,000 DOOSAN DL500 Whi Ldr, log forks..\$210,000 DOOSAN 175 Exca., w/hyd thumb .....\$45,000

CAT 518 Grapple Skidder ..... CAT 527 Track Skidder, swing, EROPS.\$85,000 CAT 14E Grader... ..\$14.500 CAT D5H TSK Track Skidder, fxd grpl, cab P.O.R. FIAT ALLIS 8, winch/arch, SU..... .\$16,000 FIAT ALLIS FD9, ...... (2) FMC 220CA Track Skidders .......\$39,500 HITACHI 200EX, bucket, thumb ...... .\$19,500 INTERNATIONAL TD8E, winch, arch..\$13,500 INTERNATIONAL TD15B.....\$8,500 JD 50D, thumb, bkts, mulcher, low hrs \$49,500 JD 850B Dozer, excl. UC.....\$19,500 KOBELCO 270 Excav .... KOEHRING/BANTAM 366 Exca. .......\$19,950 KOMATSU CK30, track skid steer, low hrs\$28,500 KOMATSU PC 200 Exca., thumb.......\$22,500 KOMATSU 200 Exca., bucket ..... LB 4300 CII Rd. Bldr, bkt & thumb .....\$29,500 SAMSUNG 210 LC-2, '92.....\$36,950 TD20G Crawler/Tractor, brush rake, winch \$38,000 TD15E SU, fixed Esco grapple, clean..\$24,950 TEREX 8220 Dozer, bad engine ........\$10,000 TIMBERJACK 230 Grapple Skidder....\$9,750 TIMBERJACK 404 Skidder, 18.4, clean\$7,500 VOLVO EC140BLC Exca., thumb, low hrs \$56,000 **CARRIAGES** 

#### KETO . WARATAH . FAGI F CARRIAGE

Rich Lennox (360) 508-0192 Jim Wark John Welch (360) 520-2082 Cooper Bi Shannon Pesicka (360) 507-0542 John Griff Mike Duch (360) 880-6955

Bill Pantier • Doosan Parts: (360) 508-6294 Cell Traci Brunoff • Sales Coordinator: (360) 880-7531

 Jim Wark
 (360) 623-5219

 Cooper Brunoff
 (360) 880-7534

 John Griffin
 (425) 210-9702

(360) 748-1182

fax (360) 748-1198 · Located at Exit 79 off I-5 1380 NW State Ave., Chehalis, WA 98532

www.cascadetrader.net





KEVIN EADES'S OFFICE is in the cab of the 2008 John Deere 648H grapple skidder he operates for E&G Logging the past several years, in addition to running their 527 Caterpillar grapple skidder. Eades began his career logging in 1984 and makes his home in MacArthur, California.

# E&G Logging, Inc.

(Continued from Page 5)

as well mostly during the summer months.

They also added a stroke delimber about the same time, and with the added equipment they were running two sides full-time, (Delbert) Gould running the mechanical side, and his partner, Eades operating the conventional side.

In 2001, the partnership ended with the retirement of Lenny Eades. "At the point they separated," Gould explained, "dad bought out everything he needed to run a single mechanical side and Lenny sold the re-

mainder," and they retained the E&G Logging, Inc. name. "We kept the mechanical side going and a few of the guys from Lenny's crew as well." The crew has averaged from seven to 10 people since that point in time.

### **Changing the guard**

With 2006 on the horizon, the Gould's put into effect an ownership transition plan that, "...was thought out so we both could win and do well," Gould explained. They'd learned a lot about planning

(Continued on Page 7)
See "E&G Logging, Inc."



# ROTHENBUHLER ENGINEERING

HOME OF THE Talkie Tooter

#### MARK III WHISTLE CONTROL

now in the 75 MHz band, get away from congested frequencies with a proven design





## **CARRIAGE CONTROLS**

rugged radios that can control any manufacturer's carriage from the ground or the yarder

Rugged, Durable, Industrial Radio Equipment since 1946! P.O. Box 708, 524 Rhodes Rd Sedro-Woolley, WA 98284-0708 **Telephone 360-856-0836** www.talkietooter.com



11 Spokane Street - Suite 306 Wenatchee, WA 98801

Toll Free 888.223.2600

www.fullcirclellc.us

**Doug Powell** 

# Who Says Money Doesn't Grow on Trees?

We Finance Loaders, Trucks, Skidders, Trailers, etc.

- Simple application only options
- Flexible financing
- · Choose a loan or a lease
- New or used
- Buy from a dealer or private party

Isn't it time you made an investment in your machinery?

# **Call Doug Today!**

**888-223-2600** · dee@fullcirclellc.us *After hours cell: 509-393-5111* 



payment," he explained.

from when Eades retired and was bought out. "Lots of talking with financial people and tax people and

# CC HEAVY EQUIPMENT INC.



1987 **Thunderbird** TMY 50,

Self-propelled rubber, New paint, Ready to go \$375,000



08 Kobelco 210 Log Loader with Winch, Forestry Cab, Recent Engine, **NEW PRICE** 

.....\$149,000 www.ccheavyequipment.com



2010 JD 160D LC, Waratah 616 all updates, topping saw, 2,800 hrs, auxiliary

cooler, Like New \$250,000

**Know There are** 

Over 100 Items or

Our Website?

**Check It Out** 

It's Real User

Friendly!



2004 CAT Swinger with ESCO grapple, 3,526 hrs, standard UC, extra set of unused tri-pads, totally straight & clean, EROPS, A/C good, near NEW cond

.. \$200,000



2004 Link-Belt 240 LX - Pierce 3348,

to Process your logs. \$75,000



2005 Timbco 445EXL w/12,000 hrs, less than 1,000 hrs 20,000 hours, Ready on rebuilt eng, UC 50%+, main boom cyl redone, Quadco disc saw with top saw, 6,500 hrs, excellent shape.. \$179,000



2006 LINK BELT 330 LX Road **Builder** 

with Waratah 624 hours, Tier II engine, Rebuilt Hyd. Pump Let's Deal! .225,000



2004 Link-Belt 240 LX,

Pierce Boom Super Approx 16,000 Grapple ..... \$75,000



2000 **Thunderbird** 1238,

UC, Tight, Recent motors, new color decent rubber. NEW Engine work, Pierce screen, controls and Grapple ..... \$58,000 computer .. \$69,000



04 Waratah 624, 15,000 hours, Good low hours, new drive er, prentice grapple,



1995 **Prentice** 410 EX, 4 axle carri-PRICE......\$49,500



2001 Excellent Condition, ... \$85,000 **NEW PRICE** 

.....\$59,000



MADILL 071, Madill 1236 DL, 3 Guylines, Lines, Pierce 3345 Stroker, Radios, Very Straight



1996 Good UC Timbco Bar Saw with lateral tilt. new paint since picture ..... \$49,500



**2010 John** Deere 959K

Like New Condition, 4,500 hrs, Fire suppression system, job ready ..... \$320,000



1991 KOLLER 501 TIMBCO on a 1989 Freightliner Ford 8000 Shop 445, approx. 12,000 Truck, comes with all Truck, CAT 3208, Waratah HTH 230 hours, Recent engine, the rigging NEW PRICE 13 speed, Welder Processor



**\$60,500** Compressor, Crane. \$16,500

FINANCING AVAILABLE • TRADES POSSIBLE

**CONSIGNMENTS WANTED** 2005 Super Eaglet, Shackle Passer, Smartbox, 3 Bugs,,Tree Jack.....\$34,500 Ford 9000, 18' Flatbed, Cummins 400, Very Clean ......\$12,500 05 Kenworth W900, Olympic 10 ton Self Loader, CAT Power .....\$95,000

Kobelco 400 RB, Clamshell also CAT 235C RB Bucket/ Thumb ...\$44,000 ea. 

1993 Hitachi EX120, Clamshell .......\$32,000

2006 4710B Peterson Track Grinder......\$275,000

**MORE EQUIPMENT ON OUR WEBSITE:** 

www.ccheavyequipment.com



**1993 TIMBCO** 435 Leveller, tuned up Waratah \$59,500



1996 Valmet 892 Forwarder, New JD Engine, Trans, Torque, totally Hyd Pump are Rebuilt, really good set of ECO TRACKS & good tires, new paint, NEW PRICE... \$45,000



CASE 1450, Runs CARCO Winch, Turns good, Angle UC is low..\$12,900



excellent, Freespool Dozer with twin tilts,



Knight Dump Box, Aluminum High Capacity, High Lift Gate, Tarp......

Quadco 22" Hot Saw, also Timbco Bar Saw .

1990 JD 493 Timbco, Barsaw.

Dallas/Salem, OR

Carl Cornthwaite • 503-507-7230 • carl@ccheavyequipment.com



Updating machinery is an ongo-

ing venture, and the first piece Sould purchased was a John Deere 2054 loader in 2006, "...to sort, load, and deck," replacing an older ma-

chine.

E&G had used stroke delimbers for several years, then in 2006, purchased their first dangle head processor at auction: "...a John Deere 2054 carrier with a Waratah 622 processor." That was first used on a salvage logging job shortly after purchased, "and we discovered they ran far more efficiently than we thought they would," once it was being used regularly, to the point where, "... we were running it all the They kept the stroker as well, but "...preferred running the Waratah."

At that point, they used the stroke delimber, "...when we're in big, heavy limbed pine, 28-32 inch, big limby stuff," Gould explained adding, "...it kept the hand bucking down, we could use the stroker on the bigger pieces, (because) the Waratah was the 622, (and could

# (Continued on Page 15) See "E&G Logging, Inc."



ging the past year and explained he's "...loving it!" He'd been bumping knots and bucking when we caught up with him. He explained he did a bit of everything including skidding, bucking logs, and was the 'second' processor operator, "...getting there." He lives in Red-





# Chain Saw Cut Protection

ing. Snipes lives in Bieber.

crew, "...I mostly run skidder but I can help run the logs, and the loader." Here

he's putting in water bars, which both skidder operators do as they log the site, just as they evenly distribute brush over the landscape after process-



#850KP chaps are flexible, lightweight, and have six-plys of Polyester/Kevlar cut protection. They meet UL standards and the '95 OSHA standard for leg protecton. They also meet the ASTM F1897 specification and are rated American Standards Class "A."

6295

Other Sizes: Short \$60° • Long \$68° • XLong \$70° • XXLong \$78° • XXLong \$78° •

Note: Labonville cut protective garments are not represented as shields against damage, but as an aid to help prevent damage in extreme cases.



Kevlar® strands are spaced 3/4 apart on the weave length only. Polyester strands hold the tough Kevlar® strands in place.



Centralia, Washington

7 360-736-1336

For Information Calls & Orders from Washington

**800-822-2808** *For Out of State Orders* 

www.madsens1.com

■ Circle 170 On Inquiry Card – Pg. 27





At Anti-Seize Technology we offer a full range of industrial products that serve many industries and cover a wide range of uses. We have the greatest variety at the best price.

## **Products**

- 37 Aerosols
- 21 Anti-Seize Products
- 21 Valve Sealants/Lubricants
- 17 Industrial Grade Cleaners
- **15 Specialty Lubricants**
- 13 Threadlockers and Retaining Compounds
- **12 Food Grade Products**
- 11 Adhesives

- 10 Thread Sealants
  - 9 Instant Gaskets and Adhesives
  - **8 Extreme Pressure Greases**
  - **8 Coatings and Specialties**
  - 3 Super Glues
  - 3 Epoxies
  - 2 many more to list.

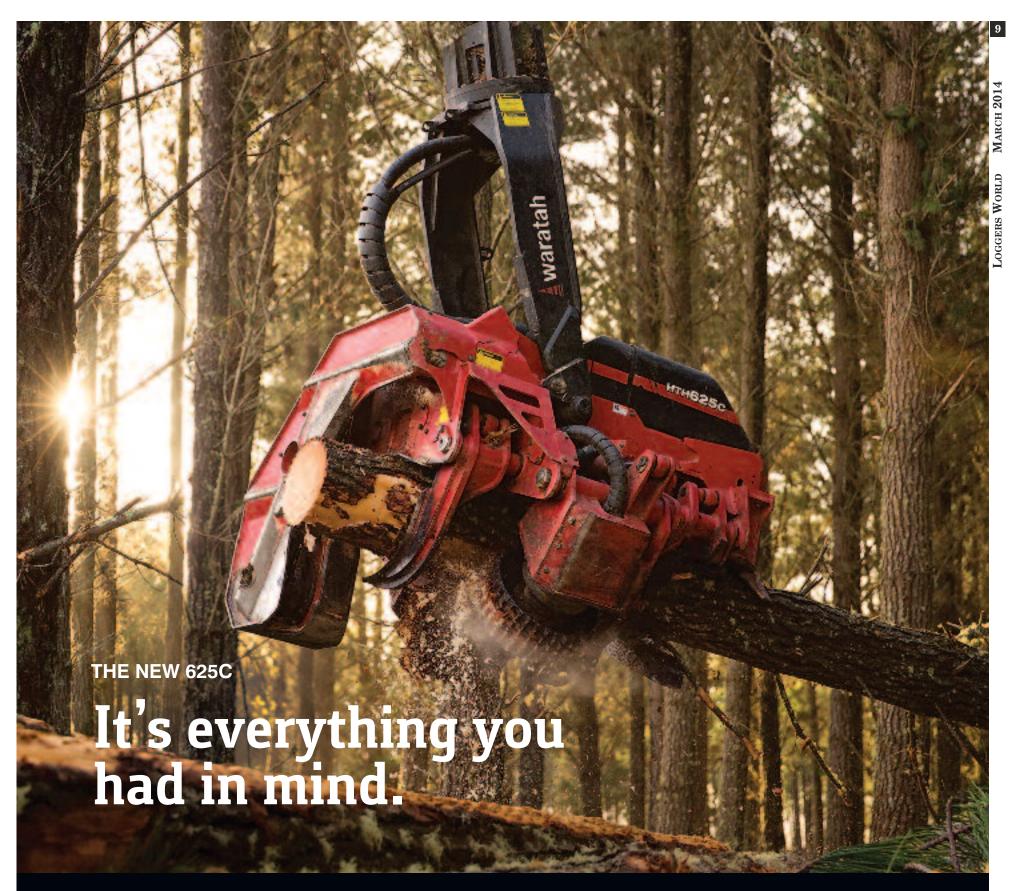
Our passion is our products. Excellent service is our promise.

1-800-991-1106 • Fax: 847-455-2371

www.antiseize.com • sales@antiseize.com

©2013 AST. All rights reserved.





When we set out to build the most innovative head on the market, we turned to the real experts: you. Input from real-world loggers drove the creation of this high-performance 625C harvesting and processing head that delivers the ultimate in productivity, durability, and serviceability. When it comes to feed performance it easily handles 35" wood and has exceptional tree control and delimbing with twin bottom delimb arms. It's complemented by a continuous 360-degree rotation option making wasted motion a thing of the past. Other features include a 3/4" main saw with auto tension, a 3/4" top saw, and smart maintenance features that reduce downtime and improve serviceability. This head will help maximize your productivity. So much like you, this Waratah is built to work.

www.waratah.net

Ed McDaid ed.mcdaid@us.waratah.net +1 (360) 636-2950 Doug Landers doug.landers@us.waratah.net +1 (770) 692-0380



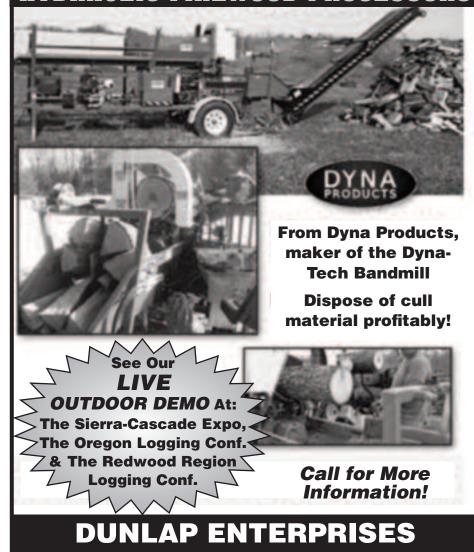




MICHAEL BLUE is a fourth generation logger, with 10 years' experience beneath his belt. "I started out on the 528 (now replaced by the JD648H) and worked my way into this," then

he smiles adding, "... huge difference: stereo and air conditioning, very nice!" He's been E&G's Komatsu/Valmet 430 operator the past three years. While he has a Pierce 3440 bar saw this day, typically (other than summers) they--- run a Quadco hot saw. "Neal's put me in about every situation we could be in... we do it all."







(209) 532-4974





Call Chuck 24/7 530-221-6760

8537 Commercial Way Redding, CA 96002

See all of our equipment and attachments at:
www.mpiequipment.com





2006 JD 544J, very good 20.5x25 radials, 3-yard smooth-edge bucket, cab, AC, joystick, 4,616 hours.....\$79.500

**2,000 GALLON ENVIROVAULT FUEL TANK**, 13,000lbs+/-....\$**6,250** 

# 527 Certified Rebuild Power Train Plus



**CAT 527** 

TRACK SKIDDER SWING GRAPPLE CAB w/AIR

REBUILD PERFORMED BY LOCAL CAT DEALER

FOR MORE INFORMATION CALL CHUCK MPI EQUIPMENT, INC. 530-221-6760

\$330,000





1997 TIMBERJACK 460, dual-function grapple, winch, 24.5x32 tires, cab, 6BT Cummins, approx. 174 hp, low hour trans, recent trade. \$27,500



PROLENC SNUBBERS for skidders in stock CALL





1992 MORBARK 1200, cab, loader, CAT 3412DI @ 650hp, very little use in last 6 years, 5,696 hrs per meter, 12 new tires, good unit.......\$79,500



2004 MORGAN SX706SB, 6 WD, 3,103 original hours, very good tires, swing boom, 120" grapple open, full rotation, 8.3 Cummins @ 260 hp, hydrostatic drive, ROPS, cab, AC, approx 39,000 lbs, job ready...\$112,500



LeTOURNEAU LOG STACKER, 60-ton, cab, 4x4, 12.7 liter Detroit Series 60, excellent tires, very clean, good history, from major pipeline

HULTDINS SE360LP GRAPPLE, 73" full rotation, removed from Terex TXC175LC-1.....\$7,500

JEWELL HEEL RACK, stamped for Hitachi 200/290???, very good condition, +/-53"W x 8'7"L.......\$3,000

MEDFORD LOG FORKS, for Komatsu WA450, good condition.....\$3,000



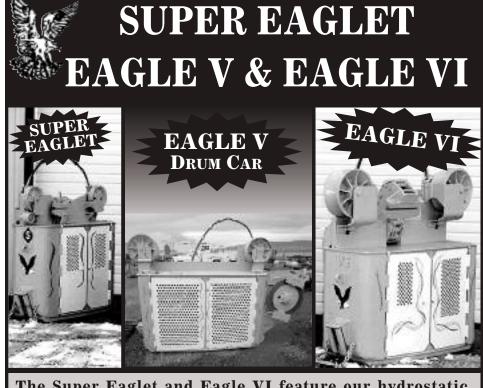
- New, Out-of-Crate CAT Engine
- Recondition Radiator, Including All Hoses, Clamps and Seals
- Rebuild Transmission to New CAT Specs
- Rebuild Torque Converter to New CAT Specs
- Rebuild/Recondition Steering Clutches, Brake Modules and Final Drives
- Recondition Equalizer Bar and Pin Bores; Install New Pins, Bearings and Seals
- Replace Pivot/Stub Shafts with New CAT Shafts
- Recondition Track Roller Frames
- Repair Track Guiding Guards at Swing Frames
- Replace Undercarriage with All New CAT Components, Including Track Groups, Rollers
- New Rock Guards
- Reseal/Replace Power Train Hoses
- Replace U-Joints and Hardware
- Install New Air Conditioning Pump, Alternator and Wire Harness
- Recondition Front C Frame
- Complete All CAT Engineering Updates as Needed

#### Additional Work Performed:

- New Paint
- New Front and Rear Windows
- **New Prolenc Snubber and Pins**
- Repair Boom and Grapple as Needed







The Super Eaglet and Eagle VI feature our hydrostatic, reversible slack puller drive making it possible to: 1. Power the tail up as you clear the landing 2. Power up the chainsaws, lunch pails and rigging 3. Drop the line down on the way out 4. Drop the turn down on the way in. (Patent #7213714)

# EAGLE CARRIAGE & MACHINE (541) 963-4646

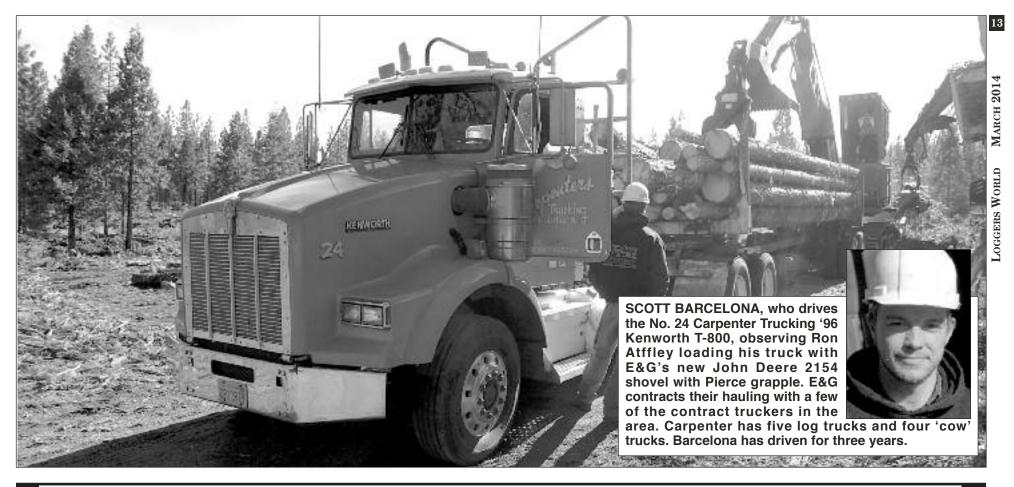
Call Today for a Demo

Fax: (541) 963-3415

(541) 805-9504 cell

After Hours - Sam Baker

62500 Commerce Rd, La Grande, OR 97850 www.eaglecarriage.com



# WRECKING LOGGING EQU

**EXCAVATORS · CRAWLER TRACTORS · ROCK TRUCKS · LOADERS · GRADERS** 



2004 Hitachi ZX450LC



2004 Volvo L220E N.A.P.



2004 Cat 988G



2000 Timberjack 1270B



2004 Deere 2554



1998 Daewoo 220LL



2000 Komatsu WA500-3L



1996 Deere 653E



2002 Timbco 475D



2008 Kobelco ED150

# FRALEY TRACTOR, inc. WRECKING

(509) 884-7117 • FAX (509) 884-3959 • fti2@nwi.net • 1850 GRANT RD., E. WENATCHEE, WA 98802

#### **CAT EXCAVATORS**

E110B; E120B; 314C; 315BL; 320LL; 320BL; 320C; 322CL; 325L; 330BL; 345BL; 350L

#### **CAT TRUCKS**

D25D; D25C; D300E; D400D

## **CAT SKIDDERS**

D5H; D4H; 515; 525; 525C

#### **CAT SCRAPERS**

615,621E

#### **CASE**

821; 9030B; 9040B; 9050; 9050B; 9060B

**GROVE** 

RT745

#### **LINK-BELT**

210LX; 240LX; 3400 CII-Q; 4300 CII; T425B-C-D; T445B-C-D; T445EXL; 4300 CII-Q; 5800 CII-Q; 6000Q

# **KOBELCO**

ED150; SK290LC6; SK200LC IV; SK400LC IV; SK330

#### **JOHN DEERE**

120C; 160LC; 590D; 200DLC; 230LC; 2554; 310SE; 330CLC; 450LC; 550H; 544CD; 544G; 624G; 644H; 644G; 648GII; 690E; 710D; 750B-C; 744H; 753GL; 772BH; 850-850BLT; 992D-ELC

#### **SAMSUNG**

SE 350LC2

#### **TIMBCO**

475D; 475EXL

#### **TIMBERKING**

TK722; TK1162

#### **KOMATSU**

PC120-6; PC130-6; PC138US-2; PC150-5; PC160LC-7; PC200LC-6; PC220LC-5; PC220-6E; PC300LC-5; PC300HD-5; D155AX5; D355A; D65E-6; WA 200-1; WA180-1; WA400-1; WA320-1; WA180-3; WA250-3; WA500-1

#### **TIMBERJACK**

608; 628; 1210B; 2628; 1270B

# **HITACHI**

ZX27U; ZX120; EX150; EX160; ZX200LL; EX200-5; EX60; EX200LC3; EX220-3; EX270-1; EX300LC1; EX330LC5; EX400LC3; ZX450LC; EX550LC5; EX700; EX750-5

#### **VALMET**

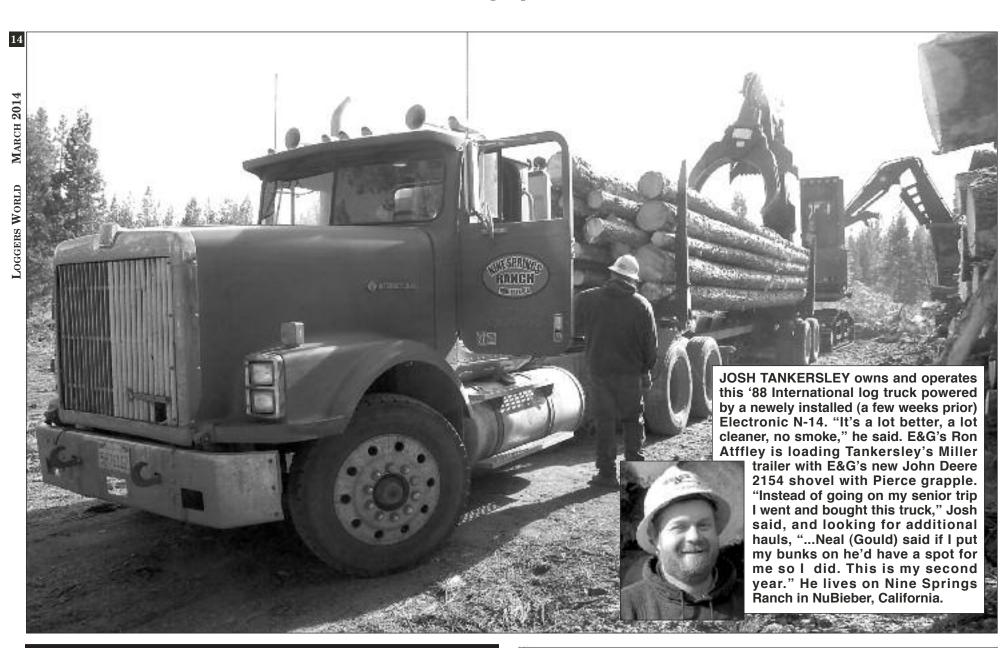
500T; 860; 892

#### **VOLVO**

A25C 6x6 Rock Truck; L330C; L120E; L180C; L220E

WE BUY HEAVY EQUIPMENT FOR PARTS AND RESALE...CALL US!





# For owners of logging companies Washington L & I can cost well above \$30,000 per year! There is an alternative

# THE ALTERNATIVE

As an example, let's look at a 35 year-old man that does not use tobacco... here's what he'd get for about 2/3 of the cost of L & I.

- Medical Insurance that covers him on-and-off the job, 24/7/365.
- Disability Income Insurance of \$3,000 per month for 10 years!
- Life Insurance of \$500,000 to start, increasing for inflation.
- Supplemental Retirement Income beginning at age 70 of over \$60,000 per year, Tax Free! (Self-completing if disabled!)

Obviously, all this is subject to underwriting and current tax laws, but I have not met very many sick or uninsurable loggers!

# Call us today! 866-514-3356 toll-free!

**360-274-6991** • 25 A Street SW, Castle Rock, Washington Wayne Lunday, LUTCF, CLU, ChFC Gail Mowrey, ACSR



■ Circle 179 On Inquiry Card – Pg. 27

# ADVANCED HYDRAULIC & INDUSTRIAL SUPPLY



HYDRAULIC SOLUTIONS FOR CHALLENGING ENVIRONMENTS ™

# WATCH US @ http://www.youtube.com/user/TaimiHydraulics

The Swiwell Hydraulic Swivelling Couplings Designed to eliminate torsion on hydraulic hoses. The Swiwell TM in-line swivelling couplings do not use ball bearings, are more robust and will endure extreme operating conditions, providing a life expectancy of up to 10x that of an ordinary swivel.

# <u>The Swiroll</u> Spherical Hydraulic Joint

The Swiroll enables hoses to INDIVIDUALLY swivel on both sides of the joint, allowing freedom of movement with no torsion.

Will fit most harvesting heads



## Advanced Hydraulic Supply

4444 N.E. 148TH Avenue, Portland OR, 97230 (503) 289-0354 1-877-887-1730

www.adv-hyd.com

# THE HOSE SHOP

856 South Alder, Burlington WA. 98233 (360) 757-3776

■ Circle 180 On Inquiry Card – Pg. 27

#### (Continued from Page 7)

handle up to a 22" maximum). I was the one that had to deal with the bigger trees by hand, so I had a vested interested in finding a better way to handle that wood."

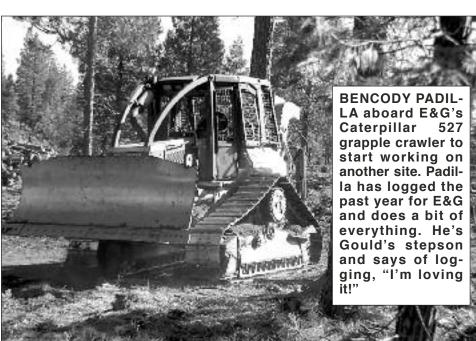
Next up: replacing their older skidders in '08. "They were due (for upgrades) and were costing a lot in upkeep, and it was getting harder to get parts," Gould explained. "So in '08 we upgraded to the John Deere 648H grapple skidder... more skidding power for all the newer equipment we had," and they had an enclosed cab "...a big improvement for the operator!"

"There was less wrenching and a lot more logging," he explained. "
The 648H performed so well they

bought a second, almost identical JD 648H in 2010. "When we bought the first new skidder," Gould explained, they were a bit skeptical of their cost/benefit ratio, Gould said, "... but in seeing how much improvement it had in our production it

made a lot more sense."

They've worked with the Pape' Redding dealership for decades. "They're good about keeping my stuff going.



Gould replaced their feller buncher in 2011 with a Komatsu/Valmet 430 feller buncher, attaching their older Quadco 22 hot saw as the primary felling head.

Both of their processors, the 15 stroke delimber and the Waratah 622 were due for replacement by 2012, and Gould explained his 622 operator, "... felt we should stay with the dangle heads vs. the stroker," and they were debating on \$\mathbb{E}\$ which to replace. "So do we want to \$\mathbb{E}\$ update to new stroker or a new processor," he recalled, ... and he convinced me if we update that it should be to a dangle head not the stroker. So we traded the stroker, the older 622 processor, and the 🙎 feller/buncher, and bought the new Waratah 623C dangle head processor," with a John Deere 2454 carrier. "It's bigger (than the 622), it could handle a larger array of wood... it handles 80% of the wood we have, so generally a small percentage (is oversized) and we'd have to handle that by hand anyhow."

E&G added their newest shovel a few months ago, a John Deere 2514 with a Pierce grapple. "It's small

(Continued on Page 16) See "E&G Logging, Inc."



# Contact: Kevin Zender (360) 319-7973 Rod Hansen (360) 520-6849

or email: kevin@zenderequipment.com rod@zenderequipment.com www.zenderequipment.com · Everson, WA

# **LOG LOADERS**

2004 Komatsu PC 300, 11,200 hrs	.\$114,500
2004 Komatsu PC 300, 17,000 hrs	\$87,500
2008 JD 2554, Jewell grapple, 10,500 hrs., new u/c	POR
2007 Madill 2850C, recent motor, rblt hyd. group, new paint, new u/c, rebushed	\$240,000
2006 Madill 3800C, hyd group rblt, recent u/c, good cond	.\$275,000
2000 Prentice 625 CRX, w/Jewell 3 axle carrier, rblt Cummins upper, 13,000 hrs, xlent con	d. <b>\$135,000</b>
2004 Cat 330C, recent hyd pump, rblt top end of motor, new u/c, 17,000 hrs	
2003 Link-Belt 210LX, Pierce grapple, 12,300 hrs	\$79,500
1997 Link-Belt 2800Q, w/Pierce grapples	
1998 T-Bird 1238LL, w/T-Bird grapple, good u/c, recent pump	\$49,500
2007 Kobelco SK 260, Jewell grapple, 11,400 hrs	
2005 Kobelco SK 210, 14,000 hrs, recent hyd pump, good u/c	
1997 Kobelco SK 220, 15,000 hrs, recent rotex, rblt motor & finals	\$49,500
DELIMBERS	
2009 JD 2954, w/06 Waratah 624, 9000 hrs, new pump & drive motor, rebushed	\$249,500
2005 JD 2554, w/05 Waratah 622B, color screen, 10,000 hrs, RB front	.\$152,000
2006 JD 2054, w/06 Waratah 622B, rebuilt head, RB front, color screen, good cond	\$175,000
1999 JD 330LC, w/06 Waratah 624, recent motor, color screen	.\$125,000
<b>2009 Cat 320 DFM</b> , w/09 Waratah 622B, 5,700 hrs, xlent cond	.\$279,500
2001 Cat 330B, w/08 Waratah 624C, 7,000 hrs, Cat rblt carrier, 4,000 hrs	POR
1998 Kobelco SK 220, w/03 Log Max 9000, 14,900 hrs on carrier	\$80,000
2002 Kobelco SK 330, w/02 Waratah 624, rblt motor, rb front	\$92,500
2006 Link-Belt 210, w/06 7000 Log Max, 6,000 hrs, RB front, xlent cond	
2004 Link-Belt 240, w/04 7000 Log Max, 16,000 hrs	\$115,000
2004 Link-Belt 210, w/04 Waratah 622B, RB front, new pump	
1994 Link-Belt 2700, w/20" Waratah 230A, RB front	
1998 TJ 608B, w/TJ 758 head, 9,000 hrs good cond., Lots of parts	
Waratah 624, w/color screen, good cond., w/controls	
<b>2005 Log Max 12000</b> , head only	
2004 Link-Belt 240LX, w/Pierce 3348, new chain, 12,300 hrs, new paint, xlent con	
2004 Hitachi ZX250, w/Pierce 3348, new chain, 12,600 hrs, forestry cab	
2004 JD 2554, w/Pierce 3348, rblt delimber, xlent cond	
2004 Madill 1236B, w/DM 4400, new boom, 10,000 hrs, recent motor & pum	
2005 Madill 1236, w/DM 4400, excellent cond, new paint	
<b>2000 T-BIRD 1236</b> , w/DM 4400	\$55,000
BUNCHERS	

# 1999 Timbco 445D, 2000 hrs on rblt motor & pump, good u/c, bar saw ......\$95,000 2008 Komatsu PC 200, Pierce grapple, 4,000 hrs......\$199,000

EXCAVATORS	
2007 Kobelco SK 210 LC, w/clam bucket & brush rake, 9,000 hrs	\$75,000
2006 Kobelco SK 350LC, w/bucket, 7000 hrs	\$100,000
<b>2000 Kobelco 135</b> , 5650 hrs	\$35,000
2006 Link-Belt 290, w/bucket & thumb, 7000 hrs	\$105,000
2000 Link-Belt 2800Q, w/HPF bucket & thumb, 9000 hrs	\$40,000
2004 Link-Belt 240LX, w/2 digging buckets & thumb, pin grabber, new u/c, 13,000 hrs	s <b>\$49,500</b>
1999 Cat 322, w/bucket & thumb, 13,200 hrs, rblt motor, c/w heel & 52" grap	ple <b>\$49,500</b>
1997 JD 690, c/w bucket & thumb, quick change	\$35.000

# **SKIDDERS & DOZERS & GRADERS**

2003 Cat 525B, single fuctn., bunching grapple, 80% 30.5X32 rubber	\$60,000
2010 JD 648H, dual fnctn bunching grapple, w/chains, 70% rubber, xlent cond	d <b>\$185,000</b>
1995 JD 748E, dual fnctn bunching grapple, w/winch, 8,900 hrs., 30.5X32 rubber	\$55,000
1996 JD 548G, dual fnctn bunching grapple, w/winch 11,000 hrs	\$34,000
1998 Cat 517, swing boom rblt motor, trans, hyd pump, rebushed & new u/c	POR
<b>2010 Cat 527,</b> 3,300 hrs, like new	.\$330,000
1998 Cat 527, w/sorting grapple, winch, rblt trans, torque, 14,000 hrs, good u/c	\$150,000
Clark Ranger 667, w/winch, 28X26.5 good rubber	\$14,000

### **FORWARDERS & HARVESTERS**

2006 Timber Pro TF 830, w/Log Max 7000, w/quick change to grapple, 5000 hrs, xlent cond \$330,000 2001 Timber Pro TF 820E, 3,300 hrs, w/grapple, w/brush hauling dump bed .\$180,000

#### **YARDERS & SWING YARDERS**

T-Bird TMY 57, new lines, 8V92T, c/w 2 Bomans and T-Bird cars, 10,000 hrs on yarder...POR T-Bird TTY 6150, good line, Cat power, nice yarder.....\$320,000 Diamond D210, nice yarder, ready to log ......\$262,500 Link-Belt LS98 Log Master, 3 guyline, gantry, big drums, 6V92, Allison, tilt cab, xlent u/c \$190,000 Cat 330, w/2 Pullmaster-4, piston motors, 1 good yoder ......POR 1994 Hitachi 200, w/2 Pullmaster, guyline winch, new paint, work orders .......\$119,500 Madill 071, w/Eagle 6, Eaton, water on all drums, 4 guylines, good lines & rigging ...\$112,500 **Skagit 739,** T100 self prop, 7 guylines, Cummins KT1150 power......**\$210,000** Skagit BU80C, Cummins 400, Twin Disc., 5 speed, Skagit T90 slf. prop. .......\$42,500 Skylead SC40, on TJ 450 skidder, water on haulback, Cummins, Allison, rblt drums .\$110,000 Washington 137, Slack liner, T90 self prop., Cat 3408, 8 guyline, 1 3/8" yarder....\$160,000

## **MOTORIZED CARRIAGES**

**Boman 9100**, good cond .......\$25,000 2004 Madill T2200B, Quadco 22" 360 hot saw, new u/c POR Acme 20, shackle passer \$25,000

# FIRETRAILERS, TRUCKS & TRAILERS

2004 Tigercat 870L, w/23" hot saw, 12,500 hrs, rblt motor.......\$155,000 

# 16 E&G Logging, Inc.

#### (Continued from Page 15)

enough you can put that on a low bed without a pilot car to move it," explained Gould, "with a high and wide undercarriage, so it's not too over width to move down the highway!!" They just put it to work on the present job they were on. "It's basically the 2054 updated, more width of the undercarriage and a few improvements. It's working out well. And at the end of the day it's easier to move for sure!"

#### **Versatile crew**

E&G has a seven-man crew including Gould, "...and water truck driver who is laid off right now." He explained that California state law demands dust abatement. "Once we start logging in the spring we're running the water truck. If you don't water the roads, they'll deteriorate."

"I feel really fortunate with the crew right now," Gould said with a smile. "Good people, good guys who've stuck around all this time. We're blessed to have such a good group of guys, all good hands."

Gould added finding new crew re-

mains a challenge. "When you really notice it is when you start trying to pick up new guys and fit them into the mix." He then smiled adding, "....you discover the guys are even better than what we'd thought."

In addition to pay, E&G offers a medical plan (which they've had a number of years), and a 401(k) plan they match "...up to four (4%) percent a year"

They operate the majority of the year said Gould. "We push hard to put in a 10-month season. Some years we get all that and some, and in others we only get nine months. Generally that's a weather thing or a mill thing."

They've had trucks before but just for low boying their own equipment in the past, Gould said, the exception being their water truck. Their log trucking is through various contractors. "Burney Transportation, Donnie Allison and his brothers, has done that (their low boy hauling) for a long time."

## A good future

The balance of a strong, versatile, largely cross-trained crew, and up to date equipment keeps the E&G Logging team humming nicely.

"We're very balanced presently," Gould explained, who takes justifiable pride in running a good company, "...and having maintaining a decent life."

Neal and his wife Jenna were married in 2003. "She's the book-keeper/secretary/everything, including all the nuts and bolts (of the operation)," Gould explained with a smile, adding that she'd "... taken that over from mom about '07, after mom worked with her in '06 to prepare (for the change-over)."

Neal has a 14 year old son, Dillon, by his first wife. They live in the same community, "...and he's doing great." His stepson, Bencody works for the company.

Besides logging, "...we have a ski boat and we love to go out on Lake Britton (just past Burney Falls) when we can. We play with the family."

This past year Gould said, "...we

bought a new home so we spend a lot of time around our place, working on the house." They also like to get away on a vacation annually as well, "when we can."

They have five or six company vehicles in addition to all the iron.

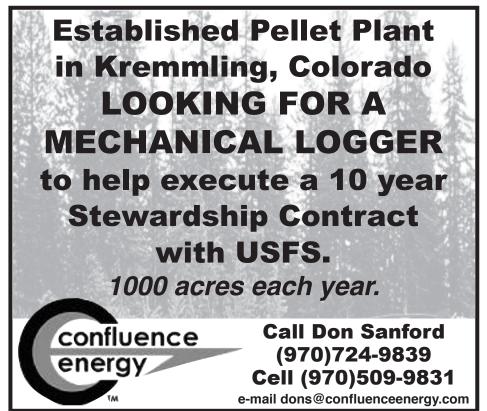
At present Gould said, "...it's going well. The past five years have been questionable. This past year we're healing up. If we can stay like this I think we can stay alive," he said with a smile.

He explained they work mostly "...for Sierra Pacific on their fee land out of Redding, it's about 99% of our work."

"The possibility of getting rich here is not very good," he explained with a smile then added, "... but having a good life is all I care about." In addition to quality logging, and a top notch crew, its apparent he's achieving that goal.



■ Circle 183 On Inquiry Card - Pg. 27



■ Circle 184 On Inquiry Card – Pg. 27





# NDIVIDUAL MEMBERSHIPS

When the American Loggers Council (ALC) was formed back in 1994, the original members were all State and Regional logging associations. The driving force was the roll out by the American Forest and Paper Association, of the Sustainable Forestry Initiative (SFI), that among other provisions mandated logger certification.

The overwhelming opposition to a mandated certification program with little to no economic compensation spread like a California wildfire. Loggers from around the country met in St. Louis and a core group was appointed to draft a set of by-laws for the group to review at a following meeting back in St Louis. That second meeting was held and

the ALC was officially formed. Many of the founding ALC members knew each other from regional logging

groups, or from attending the SFI workshops being held around the country. As the SFI certification morphed into a training and education program, the ALC remained at the forefront of "attempting" to have the program be a "positive" for the participating loggers. As the years passed the ALC grew stronger and SFI became less and less of a fo-

In the following years, the ALC began shifting its focus to governmental regulatory and legislative issues, among other functions. In conjunction with the change in missions at ALC, the

Membership Committee endeavored to recruit allied supporting members such as equipment companies, insurance companies, and a host of logging related participants. The committee also worked to recruit logging groups around the country that were not part of the chartered membership. The committee and the ALC Board of Directors also saw a strong need to assist States or Regions that did not have an active logging group that met the

ALC membership criterion. This was the founding concept behind the "individual" membership category. The ALC felt that if loggers in a state were not represented by a loggers group, they could join as individuals, and participate in ALC activities with the goal of eventually forming their own association. The ALC felt these loggers would benefit from the camaraderie, exposure, and association with the member organizations and a pledge was made to assist any group undertaking this

While several States took advantage of the offer and attempted to organize, to date, there have not been any new groups formed, but the commitment by ALC remains strong to support this program. As a side benefit, there have been a number of loggers who have joined as individual members from both nonmember and member States. The Individual Members have a representative seat, with a vote, on the ALC Board of Directors. This dele-

gate is elected annually by vote of 17 the individual members. For the past few years that representative has been Donny Reaves from Virginia, a member of the Virginia Log-gers Association. Loggers join individually for a host of reasons, but 5 many simply believe in the cause and mission of the ALC and wish to ≥ support any way they can.

Are you a logger who wants to A organize a State Association? Do you believe in the legislative mission of the ALC and have a desire to 2 support the cause beyond your State or Regional membership? If your answer is yes to either question we encourage you to visit our web site and complete the Individual Logger Membership form and return it to our office. If you wish to know more about the ALC and our causes and missions, sign on to our web site at Americanloggers.org, contact our office, or call any current ALC mem-

Many in our industry were skeptical that a group of independent loggers could ever come together for common causes. After 20 years the ALC and the long line of leaders who have dedicated their time and energy to the organization, have proven them wrong. Today the ALC remains strong, progressive, and effective as the voice of loggers from coast to coast. I encourage you to join the cause and sign on. We are stronger in numbers.

Jim Money is a Past-President of the American Loggers Council, Chair of the ALC Communications Committee, and the Director for the Virginia Loggers Association based out of Palmyra, Virginia.

The American Loggers Council is a non-profit 501(c) (6) corporation representing professional timber harvesters in 30 states across the US. For more information, visit their web site at www.americanloggers.org or contact their office at 409-625-0206.



JIM MOONEY **ALC** Communications Chair

# **JRONMART Your Trusted Source for Used Forestry & Recycling Equipment**



2002 Peterson 2400B 580HP, remote, 7400 hrs - \$159,500

**Skidders** 



2012 Morbark 3800XL Horizontal Grinder - \$485,000

\$50,000

Skiddeis			450,000
(9) 07-11 Cat 525C	\$55-165,000	06 Deere 535	\$30,000
09-11 Cat 545C	\$150-165,000	94 Husky XL335	\$34,000
(4) 05 Cat 525B	\$45-75,000	06 Komatsu 220	\$180,000
03 Cat 535B	\$65,000	11 Prentice 2410	\$139,500
09/10 Deere 748H	\$144-160,000	09 Prentice 2414	\$90,000
03/10 Decre / 1011	\$111 100,000	07 Prentice 2384	\$70,000
Feller Bunchers		06 Prentice 384TMS	\$50,000
06 Cat 521	\$185,000	05 Prentice 410E	\$79,000
07 HX 563	\$110,000	95 Prentice 410D	\$36,000
06 HX 470	\$60,000	00 T: 224	\$110,000
03 HX 570	\$65,000	98 Timberjack 735	\$89,000
10 Deere 643K	\$130,000		
07 Prentice 2470	\$35,000	Recycling	
10 Timbco 445	\$266,666	06 Beast 4680	\$215,000
98 Timberjack 608S	\$85,000	00 D 4 14 AVC 20	\$380,000
Jo Timberjack 0005	\$05,000	07/09 Doppstadt SM720&K	\$182-265,000
Mowers/Mulchers & Others		07 Doppstadt AK230	\$225,000
93 Deere 544	\$30,000	02 DO 3080K	\$475,000
Esco 100" grapple	CALL	08 Metso ST620 & LT105	\$231-299,000
Misc Shears & Saws	CALL	08 Metso LT1213	\$399,000
08 Fecon FTX 148L	\$167,000	05 Morbark 2355	\$250,000
09 Salsco 40' shaving mill	\$70,000	99 Morbark 3600	\$125,000
01 Tigercat 20HS shear	\$8,000	11 D . 4200	\$350,000
_	40,000	06/08 Peterson 5900	\$200-295,000
Knuckleboom Loaders		01 Peterson 5000G	\$169,500
02 Cat 320CFM	\$170,000	06 Woodsman 334	\$118,000

11 Deere 437

888.561.1115

We also BUY Used Forestry & **Recycling Equipment** 

View our equipment online at IronMart.com

■ Circle 185 On Inquiry Card – Pg. 27





**Summary Judgment....** 

# Idaho Woman **Defeats Obama's Top Lawyer on Guns**

by William Perry Pendley

President Obama's Justice **Department** left nothing to chance last month in a major Second Amendment battle being fought in Idaho that will affect millions of acres of federal land throughout the country. Pushing aside Idaho's United States Attorney, a top Justice lawyer flew to Boise to argue that the U.S. Army Corps of Engineers' prohibition on

possession of a functional firearm at its public recreational sites in 43 States is constitutional. Shortly after the lawyer got back to Washington, but likely before he filed his expense report, the Idaho federal district court ruled for the Idaho woman who filed the lawsuit.

Most Americans would be surprised to learn that the Corps is the nation's largest provider of wa-

ter-based outdoor recreation; in fact, it administers 422 lake and river projects in 43 states spanning 12 million acres, including over 700 dams—that hold back over 100 trillion gallons of water—encompassing 55,000 miles of shoreline, 4,500 miles of trails, 90,000 campsites, and 3,400 boat launch ramps. Waters under its control constitute 33 percent of all U.S. freshwater fishing and attract 300 million visitors a year. Unfortunately for those visitors and contrary to the Supreme Court's 2008 ruling in District of Columbia v. Heller, a regulation adopted by the Corps in 1973 bars the carrying of firearms for self-defense and the possession of functional firearms in temporary residences on its lands.

The Corps' regulation is a problem for Elizabeth E. Morris of Lewiston in Nez Perce County who was issued an emergency license in

2012 by the Nez Perce County Sheriff to carry a concealed handgun due to threats and physical attacks against her by a former neighbor. She regularly carries a handgun for self-defense and regularly uses Corps-administered public lands near the Snake River in Lewiston, Idaho, to boat with friends, regularly walks the Corpsadministered paths in the area with her dog, and/or her family, and must travel across Corps-administered lands to reach Hells Gate State Park, which accesses Hells Canyon, the deepest river gorge in North America.

After seeking an exemption from the Corps' regulation via its federal attorneys and getting no response, in August 2013, Ms. Morris and another Idahoan filed a lawsuit in

> (Continued on Page 20) See "Pendley"



Call (800) 422-0074 or join online at www.loggers.com

# Membership Highlights...

- Master Logger Program (exceeds SFI logger training requirements)
- Monthly Springboard Magazine
- First aid/cpr and pilot car training
- Log A Load For Kids® giving campaign for Children's Hospitals
- WCLA Insurance Agency top coverage for the timber industry
- Employee benefits programs through WCLA's benefits partner: Kibble & Prentice
- WCLA Claims Management Program providing the benefit of savings on L & I premium costs, improved safety standards and reduced claims costs

Register today at olcnw.com for the upcoming

# **Olympic Logging Conference**

April 30 - May 2, 2014 Fairmont Empress Hotel • Victoria, B.C.

# **Industry Capacity – Meeting Market Demand?**

Featured Speakers

Mike Phillips — Hampton Affiliates

Will share his perspective on capacity of logging, milling and the ability of the land to produce the products required for operations within their region.

**Don Taylor** — Sustainable Resource Systems

Tom Leeds — Pacific Lumber & Shipping

Richard La Mont - Timberland Appraisal

Conference Highlights

What's New • Jack's Spot • Loggers Safety Initiative • Thinning

Networking • Live Entertainment • Dinners

Olympic View Golf Club • Adrenaline • Tour & Taste of Vancouver Island

www.olcnw.com • 360-202-7014 • register@olcnw.com

■ Circle 189 On Inquiry Card – Pg. 27

24745 Alsea Hwy

■ Circle 188 On Inquiry Card – Pg. 27



# KOLLER **North America**

Philomath, OR 97370 Phone: 541-929-9582

# 2011 Koller K602 H

Remote control, full downhill capability P.O.R.

Please call for information Office: **541-929-9582** 

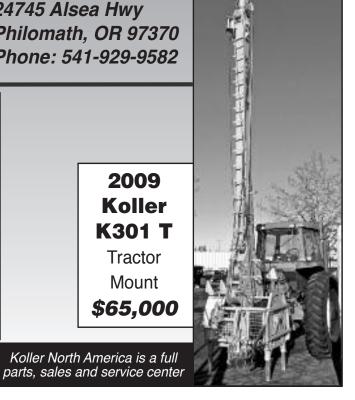


www.KollerNA.com

2009 Koller K301 T

**Tractor** Mount \$65,000

Koller North America is a full



Brenton@kollerna.com

■ Circle 187 On Inquiry Card – Pg. 27

# SIERRA-CASCADE LOGGING CONFERENCE

# SHASTA DISTRICT FAIRGROUNDS ANDERSON, CALIFORNIA

By Mike Crouse

Acrowd of around 230 ushered in the 65th Annual Sierra-Cascade Logging Conference opening ceremonies at the Ginn Fizz Breakfast and were greeted by the first measurable rainfall in a very long while, significant with the prolonged drought affecting most of the area for some while.

The rain didn't dampen the enthusiasm of the crowd, in fact it brought smiles.

Jed Gibson again served as emcee for the event, which got off to quick start starting with recognition awards typically reserved for later in the program. Ted James was recognized with the Tom Jarrett Award; Shaney Emerson was honored with the Roy Derek Berridge Award; and the SCLC Logger of the Year recognized Gary Warner. The change in order of presentations was immediately clear as all were involved with the SCLC education day teaching and guiding 750 local school youth through the displays and events running for their benefit that day

Kathie Muse was president of this year's conference, the first woman to hold that position. "I've very honored I'm the first woman president," Muse said addressing the opening festivities. "You guys are like family to me," and everything worked without a visible snag.



The conference has operated the past few years entirely with volunteers and the Board of Directors.

Keynote speaker for the conference was Rocky Slaughter with Sugar Pine Media, a public relations agency located in Redding, which has been nationally recognized for excellence. He noted that the general public is "shamefully uninformed," and has "no idea what their neighbors do." Slaughter noted, "There was a time when people knew about you and loved you!! The logging industry was a big part of the economy," and most were well aware of its importance.

"The public is inundated with information," he continued, and as a whole people have become immune. "Misinformation is a separate business," pointing to reality TV. "Who tells your story?"

Not only who tells the story, but the use of words in telling it. "Words matter," Slaughter said, "words mean perception, just through (your choice) of words you can approve or kill anything."

In taking a lead from what's occurred with re-branding in the gaming (formerly referred to as the gambling) business, and the energy (also known as the oil) industry, he explained that rebranding is focusing on results rather than the process.

"If they approve the premise," Slaughter explained of public perception, "people will give you permission to tell your story. Focus on your results, not your process!" And tell the truth.

He suggested emphasizing results, "...put your best foot forward... the giving tree," for instance. "The forest will continue to flourish.

"If the public knew," he repeated, "tell the trugh, find the right words, put your best foot forward. Everyone is responsible for being a good story teller."

There were a number of seminars and training programs in store,

some of which were presented on Wednesday before the official kickoff.

One of the most interesting of those presentations included a panel of three state agencies and and three contract loggers, with the surprising amount of candidness and open appeal from those agencies to work towards problem collaboratively, and finding solutions. Communications is the key. Panel member Stacy Stanish with California's Wildlife Department, noted, "...when things go right we're all speaking to each other. Things go smoothly. When there's no communications, things can go wrong."

Crowds at the conference were fair the first few days, and improved greatly on the conferences open to the public day on Saturday.

Our compliments to the SCLC board of directors and this year's president Kathie Muse, and her solid crew of volunteers for putting on a great show.

# **Great Buys**

2006 Link-Belt 240LX with forestry guarding package and Waratah 622B head, Portland, OR, #018648 .....\$240,000

**2005 Link-Belt 210LX**, w/LogMax 7000, 7200 hours, Spokane, WA, #018155.....**\$209,000** 

**2005 Kobelco SK 250LC**, 13,600 hours, #019246......\$97,500

**2003 Timbco T475E**, w/20,400 hrs, runs, as-is, Tacoma, WA, #019056......**\$85,000** 

**2002 Timbco 445D Feller Buncher**, single bar grousers, plumbed for processor and hotsaw, has Keto 600TS processing head, Portland, OR, #019154...\$155,000

# USED PARTS FOR

**CONSTRUCTION & LOGGING MACHINERY** 

Crawlers, Loaders, Trenchers, Excavators, Backhoes, Skidders, Skid-Steers,

**Engines and Transmissions** 

"Rely on our Experience - Est. 1967"



1-800-626-6046

# Schaefer Enterprises

4535 St. Rt. 3 N. • P. O. Box 136, Wolf Lake, IL www.sewlparts.com - parts@sewlparts.com Most Major Credit Cards Accepted

Sales - Rentals - Service - Parts

 Portland | Eugene | Prineville | Seattle | Spokane

 800.221.8512
 800.342.6780
 888.662.2940
 800.622.8876
 800.945.9168

Link-Belt

Tigercat

■ Kawasaki



www.triadmachinery.com

#### (Continued from Page 18)

Idaho federal district court and sought an immediate nation preliminary injunction barring the Corps from enforcing its regulation against her and subjecting her to arrest—or worse. The Corps opposed that motion and moved to dismiss her lawsuit. The Idaho federal district court not only rejected the dismissal motion, it also ruled that Ms. Morris was likely to win her lawsuit and was entitled to the injunction.

Noting that the Corps' "regulation bans carrying a loaded firearm for the purpose of self-defense [and] carrying an unloaded firearm along with its ammunition" and that "[a]n unloaded firearm is useless for selfdefense purposes without its ammunition," the district court held that the regulation "burden[s] [Moore's] Second Amendment rights." Further, the district court held that the regulation's ban on "firearms and ammunition in a tent on the Corps' sites" "poses a substantial burden on a core Second Amendment right...." Finally, the district court concluded that, because the "regulation contains a flat ban on carrying a firearm for self-defense purposes[,]" which "completely ignor[es] the right of self-defense, [it] cannot be saved...." As a result, the district court found the regulation "simply too broad [because] it violates the Supreme Court's description of Second Amendment rights in [Heller]. This regulation needs to be brought up to date.'

The Idaho district court did not stop there. After determining that Ms. Morris is likely to prevail following an "evidentiary hearing or trial," the district court prohibited the Corps from enforcing its regulation "as to law-abiding individuals possessing functional firearms on Corps-administered public lands for the purpose of self-defense." That means that, on Corps recreational sites from California to Connecticut and from Minnesota to Mississippi, Second Amendment rights prevail. Over to you, Mr. President.

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

# **BUY LOG SKIDDERS**



- Dozers
- Loaders
- **Excavators**

1-503-545-0007

■ Circle 10 On Inquiry Card – Pg. 27

# PROTECT, PRESERVE, WATERPROOF **BOOTS AND CLOTHING**



**HEAVY DUTY LP** 

Extremely wet or chemical conditions require Heavy Duty protection. Originally developed for wildland firefighters





**LEATHER OIL** 

Dry weather ruins leather. It dries out. Prevent scuffs, cracks and dry rot with natural oils



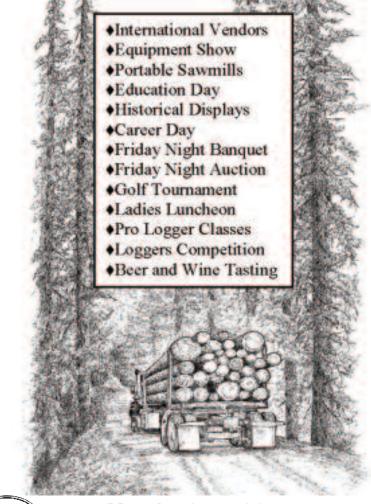
**WATER SHIELD** 

Waterproofs virtually everything. Coats, bibs, hats, gloves Safe, Odorless, nonaerosol pump 8 or 16 oz

Peck, ID **208-486-6640** 

■ Circle 193 On Inquiry Card – Pg. 27

# **REDWOOD REGION LOGGING CONFERENCE**



March 13-15, 2014

Ukiah, California • (707) 443-4091

www.rrlc.net

■ Circle 192 On Inquiry Card – Pg. 27

# SUBSCRIBE TODAY! LOGGERS WORLD

"The Logger's Magazine," is LOGGERS WOR concerned with what concerns loggers

12 Issues - 1 Year Subscription

2 Year Subscription - \$2000 Inside U.S.A.

Offer expires **December 31, 2014**  Send your check or Money order to:

LOGGERS WORLD PUBLICATIONS 4206 Jackson Highway

LOGGERS WORLD Chehalis, WA 98532

○ \$12.00 for 1-Year Subscription ○ \$20.00 for 2-Year Subscription |

Address:....

..... State:..... Zip:....

WASHINGTON RESIDENTS: ADD 8% SALES TAX (Allow 3 Weeks for Delivery of First Issue)



### **New bill proposes NF** harvest reform

n January, Sen. John Barrasso tional Forest Jobs and Management Act (S 1966), proposing to streamline administrative review and other appeals on management of 7.5 million acres of National Forest land west of the 100th Meridian. The proposal would also release "roadless" areas in Wyoming and Alaska from further consideration for Wilderness designa-

On those 7.5 million acres-about 16% of the National Forest base theoretically available for timber salesthe hill would:

Require the Forest Service to conduct analysis only on the proposed action and one alternative; excuse the Agency from any "cumulative effects analysis"; allow the Agency to conduct its own Endangered Species Act consultation; and limit the Agency's Environmental Assessment to no more than 100 pages;

Streamline the objection process, limiting it to binding arbitration, with the arbitrator limited to a choice between the Agency's proposal and the proposal of whomever demanded arbitration.- FRA Bulletin

## **Temporary flooding ruled** a Taking

'n December, the Federal Circuit In December, the reaction Court of Appeals ruled that the destruction of trees by temporary flooding caused by government action was an unconstitutional taking of proper-

The Circuit Court affirmed the 2009 ruling of the Court of Federal Claims which found the Army Corps of Engineers regulation of a dam upstream of the Arkansas Fish and Game Commission's Wildlife Management Area destroyed timber worth \$5.6 million. The Commission harvests and reforests the area to maintain a healthy forest. When the case first came to the Circuit in 2011. the Court ruled that because the flooding was periodic, rather than permanent, resulting property damage did not qualify as a taking.

In 2012, the Supreme Court reversed the Circuit Court's conclusion, ruling that the duration of the flooding was not the determinative factor of whether a taking had occurred. Instead, courts must examine whether the injury was caused by authorized government action, whether the injury was the foreseeable result of that action, and whether the injury constituted a sufficiently severe invasion that interfered with the landowner's reasonable expectations of use for the land.

The Supreme Court did not rule directly on whether what happened in Arkansas was a temporary taking, but remanded the case to the circuit court to make that determination.

AFRC participated as an amicus before the Supreme Court. (See AFRC Newsletter December 9, 2011.)

It is our hope that a body of law is developing which will allow forest landowners to claim compensation for Endangered Species use of their - AFRC News

## Calif. concealed weapon law tossed by fed appeals court

divided federal appeals court An Thursday struck down California's concealed weapons rules, saying they violate the Second Amendment right to bear arms.

By a 2-1 vote, the three-judge panel of the 9th U.S. Circuit Court of Appeals said California was wrong to require applicants to show good cause to receive a permit to carry a concealed weapon.

"The right to bear arms includes the right to carry an operable firearm outside the home for the lawful purpose of self-defense," Judge Diarmuid O'Scannlain wrote for the majority.

Judge Sidney Thomas dissented, writing that the good cause requirement limited the number of people carrying concealed handguns in public to those legitimately in need.

"It limits the risk to public safety by reducing the number of guns in public circulation, but allows those who will most likely need to defend themselves in public to carry a handgun," Thomas wrote.

Awarding concealed weapon permits is the responsibility of each of California's 58 counties. Officials are required to follow the state rules requiring applicants to show good cause and moral character.

The San Francisco-based appeals court said those requirements were too strict and ran afoul of a 5-4 landmark U.S. Supreme Court ruling in 2008 that struck down a Washington, D.C., handgun ban and said lawabiding citizens are allowed to have handguns in their home for self-de-

The appeals court on Thursday reinstated a lawsuit filed in 2009 by Edward Peruta, who challenged San Diego County's denial of a concealed 21 weapons permit.

The ruling on Thursday also disagreed with three other federal appeals courts that have upheld permit rules similar to the one in California.

The U.S. Supreme Court often 5 takes cases when federal appeals courts issue conflicting rulings.

- Associated Press

### **North American pellet** exports to Europe continue increase

Pellet export volumes from North America to Europe con- 🗅 tinued to rise during the second quarter of 2013, representing steady growth for the past seven quarters, according to data compiled by Wood Resources International LLC and reported in the North American Wood Fiber Review. In that period of time, volumes exported to Europe have more than doubled, from just over 500,000 tons in the 3Q/11 to over 1.1 million tons in the 2Q/13 (Note. The most current trade data is available to subscribers of the NAWFR).

Most of the increase in exports over the past two years has been from the U.S. South, while exports from the other major supply region, British Columbia, have been growing at a fairly modest rate since early 2011. In the second quarter of 2013, pellet volumes exported from Canada were nearly static from the previous quarter, which was a reflection of a pellet producing sector running at close to full operating rate and with limited investment in new capacity planned for the past few years. With additional capacity in British Columbia, Ontario, Quebec and Nova Scotia, pellet exports from Canada will probably expand significantly in the coming year. To date, Canada's share of the total exports from North America accounted

> (Continued on Page 22) See "Roundup"

# **SCHMUNK'S TIRE CENTER**

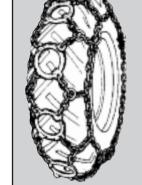
**2650 MAIN** SPRINGFIELD, OR 97477 "One of the Northwest's **Largest Chain Distributors**"

TOLL FREE 1-800-242-8473

541-746-1604 · Ask for Dan HOURS: 8 A.M. to 5:30 P.M. Email: dan@schmunks.com

SKIDDER AND LOADER CHAINS RING STYLE • 23.1 x 26 (9/16") (1495.95) PR.

**CAM LOCK TRUCK CHAINS** SINGLES  $(54.95) \cdot DUALS (109.95)$ 



**RING STYLE** 

"Huge Inventory" of Truck & Skidder Chain in other sizes available at Similar Savings

Ask about our Large Stock of Used Off-Road Tires

# \*\*Meet Mr. Timberjack\*\*



JOHN DEERE





**Mike Thomas** 

# YOU HAVE TIMBERJACK QUESTIONS, We have Timberjack answers!

Call Mike Thomas at (406) 549-4171 here in Missoula. Mike has the experience and knowledge to help with your needs. He is also knowledgeable with "Clark" powertrains and Cummins B & C engine inquiries. He's great with obsolete parts and loves helping customers with their difficult parts and component needs.

\*\* Now parting out 1997 TJ 2618 Harvester \*\*

for 38 percent in the second quarter of 2013, which was down substantially from 62 percent just to ago.

In the U S volume

2013 increased 16 percent from the previous quarter to just over 700,000 tons. In the second half of 2013, pellet trade data will also reflect additional shipments from US Gulf Coast ports in Texas and Alabama, because new plants have started their commercial operations in the third quarter of 2013, as reported in the NAWFR.

The United Kingdom has emerged as the major importer of pellets exported from North America. However, pellet shipments from North America into the U.K. likely peaked in the second quarter of 2013 for this year, as RWE's major biomass power plant in Tilbury shut down in August 2013. Power plants utilizing pellets in the UK are still on track to increase their volumes consumed over the next several years, but the ramp-up may not continue as smoothly as has been seen in the past two years.

- Wood Resources International LLC

# **Bald Eagles fall to Green Energy**

bama favors wind-power companies over America's national symbol.

When bald eagles confront danger, most normal Americans would leap to preserve, protect, and defend America's national symbol. But Team Obama's response is completely different: It wants to give wind-power companies long-term permits to butcher Bald Eagles on the altar of green energy.

The dirty secret about "clean" wind power is that its turbines are giant, whirling machetes. According

to the U.S. Fish and Wildlife Service (FWS), "With more than 100,000 turbines expected to be in operation in the United States by 2030, annual bird mortality rates alone (now estimated by the Service at 440,000 per year) are expected to exceed one million.'

Like other birds, eagles sometimes do not detect blades that often revolve at 200 miles per hour. Such birds of prey focus on finding smaller creatures to devour and then fatally smack into windmills.

Bald eagles and golden eagles are

(Continued on Page 23 See "Roundup"

# IRONVLART

TOLL FREE: 1-800-462-8283

RATES: Space available at \$25.00 per column inch. Each ad is separately boxed for prominent display of your machinery or message.

DEADLINES: by mail, 5th of month prior to publication. We will accept faxed copy

(fax #: 360-262-3337) also until 7th of month. Phone your order toll

free 8:30-5:00 p.m. Monday-Friday Pacific Time.

Use your VISA or MasterCharge Cards

# **EQUIPMENT FINANCING**

- ☐ Low Rates
- $\square$  Fast Approvals
- ☐ Easy Credit Application

YOU FIND THE EQUIPMENT WE PAY FOR IT!

**AMERICAN LEASING &** FINANCIAL CO

800-644-1182

# **HUNT & FISH & WORK**

WESTERN MONTANA Triple W Equipment is looking to hire high level John Deere Technicians, both Construction/Forestry and Agricultural.

**Interested?** Call 406-549-4171 Ask for Ken Williams

## LOOKING FOR WORK

Log Processor Waratah 620 HTH on Hyundai 210 LC-3, by the M, ton or hour, 5vrs exp. under tower, skidder, or shovel logging operations.

Call Jim 360-770-4871

# LOTS OF CLARK SKIDDER PARTS.

V6 378 Cummins 541-390-8185

40' to 89' (No 70' available) flat car and box car bottoms available for bridges, best prices. 360-426-8386 fehorse@basicisp.net

#### TIMBCO USED PARTS

445 Finals & Motors, Cat 330 & Lohmann GFT80 Boom-Stick-Tool Cyl. Rexroth Track Pump, Valve Sections

All Items Inspected Call Kevin 877-563-8899 or 250-565-5222 khodgins@prolenc.com



# The Lusty **Life of Loon** Lake Lloyd

Illustrations, Photographs WWII Marine, Gyppo Logger & Resort Owner

400 Page Book

(541) 271-0504 (includes S&H) 100 River Bend Rd., Spc. 53, Reedsport, OR 97467

Want to Buy: KT and KTA Cummins Engines, any condition, running or not, and parts. We pick up and pay cash Call 501-834-3425 or fax 501-835-6505

#### TURNTABLE BEARINGS INSTALLED

at our shop. Reasonable rates, FREE ESTIMATES 541-747-5517

Approx, 1,000ft of Poly Core 5/8" cable from crane. very good cond., 60 cents per foot 541-549-6579

We do all types of equipment painting at our **shop.** Free Estimates. The Ballenger Co., Springfield, OR **800-774-5517** 

\* \* \* 40 YEARS \* \* \* And JACK HARRIMAN is still Selling HEAVY DUTY MECHANICS TRUCKS

CELL 1-605-421-049

## THE BRIX LOGGING **STORY**

In The Woods of **Washington and Oregon** A limited edition hardbound

book written by Bryan Penttila and Peter Brix is now available from the Appelo Archives Center in Naselle, Wa. Full of historic logging photos and detailed maps.

# WHEN LOGGING WAS LOGGING.

100 Years of Big Timber in **SW Washington** 

Buy online www.appeloarchives.org or call (360) 484-7103 for more info.

# 100% FINANCING

New & Used Equipment **Great Rates** Seasonal Payments Available Start-Ups Welcome

Threshold Financial www.thresholdfinancial.net

888-280-9900

WANTED: Large Bull Block, High Lead Block, 24" sheave or larger any cond for display, Also giant logging tongs, tree shoe, tree jack & old logging tool catalogs needed. SA 2000-250 Lincoln Welder & Parts. Bob 360-687-1883 or 360-608-2583

SE Alaska Logging Company now hiring for all general positions: Mechanic, Heavy Equipment Operators, Truck Drivers, Tower Crews, Camp Cook, overtime + benefits, housing available. 970-225-2180

# Just fill in this coupon and mail your IRONMart AD in today!

IRONMart RATES: \$25.00 per column inch - 1 inch minimum. Mail this form with payment to: 4206 Jackson Highway, CHEHALIS, WA 98532 (approx. 15 words per column inch)

1 Word	2 Words	3 Words	4 Words	5Words
	1 Word	1 Word 2 Words	1 Word 2 Words 3 Words	1 Word 2 Words 3 Words 4 Words

#### (Continued from Page 22)

among the victims. This is the first significant bad news for bald eagles since their return from near-extinction. According to the Audubon Society, only 417 nesting pairs of bald eagles inhabited the continental United States in 1963. The bald eagle joined the Endangered Species List on July 4, 1976. Public and private protection helped secure its June 2007 delisting. At least 7,066 nesting pairs now populate the lower 48 states, among a total world population of some 330,000.

And now this.

Most Americans would expect Washington to shield these beautiful, majestic, and soaring creatures. Instead, they are being sacrificed in the name of environmental correctness

"We anticipate issuing programmatic permits for wind, solar, and other energy projects," says an FWS fact sheet. It also states: "Permits may authorize lethal take that is incidental to an otherwise lawful activity, such as mortalities caused by collisions with rotating wind turbines."

"Lethal take" is Washingtonian for "federally approved eagle slaughter." Precise eagle-kill numbers are tough to determine, in part because "other animals gobble the carcasses almost immediately," the Competitive Enterprise Institute's R. J. Smith explains. About 67 golden eagles are estimated to be killed annually just at Northern California's Altamont Pass wind farm.

The carnage expands from there. "In California, it is very reasonable to assume that over 100 golden eagles are killed each year," wildlife biologist Jim Wiegand, vice president of Save the Eagles International, tells me. "Based upon the death rate at Altamont Pass of 60 to 90 each year, or 0.10 to 0.15 per megawatt produced, the death rate easily could be over 500 a year from wind farms located in golden-eagle habitat in the western United States. . . . Since 2005, there has been a 50 percent decline in goldeneagle nest sites recorded near Altamont Pass. It has been hidden from the public, and I had to uncover this fact. In addition, no golden eagles have nested in the 86-square-mile region of Altamont Pass for over 20 years, even though they once did,

and this is prime golden-eagle habi-

tot "

"Despite what has been published, Altamont is not an aberration," Wiegand adds. "This wind farm just happens to have had some of the better mortality studies that have been conducted on wind farms. In addition, it has been proven (but covered up) that wherever these turbines are placed, there is no escape. They kill the indigenous bird species."

Some ornithophiles already place the words "golden eagle" and "extinction" in the same sentence.

Nonetheless, a 2009 Obama-era law lets people disturb or even kill eagles, so long as harming or whacking them is unintentional. Even worse, FWS announced last month, "the Service proposes to extend the maximum term for programmatic permits from five to 30 years." So, the Obama administration plans to widen sixfold the loophole by which wind farmers may operate killing fields for eagles. This will spare wind companies the penalties that can befall those with eagle blood on their hands but without political connections.

First-time violators of the Bald and Golden Eagle Protection Act of 1940 can receive \$5,000 fines and one-year prison sentences. Second offenses double those punishments. Felony convictions can trigger \$250,000 fines.

However, as the Los Angeles 77 Times reports, "federal authorities have not prosecuted any wind farm 50 along with condors, bats, redtail hawks, and other birds that run afoul of these giant rotors.

As an FWS press release states, "Eagles collected by Federal and State officials are sent to the Service's National Eagle Repository, where they are distributed to Native Americans for religious and cultural use." Despite this abundant supply of eagle feathers and cadavers that American Indians value, the Obama administration last March let Wyoming's Northern Arapahos kill two bald eagles in a tribal ceremony. If not unprecedented, no such permit, FWS reports, had ever been granted through at least 2009. Thus, the Obamaites celebrate diversity by attacking biodiversity.

Among others, the evil oil companies that Team Obama loves to hate do not enjoy such favorable treat-

(Continued on Page 26)

See "Roundup"



2010 John Deere 959K 4,500 Hrs. \$320,000



2007 Hitachi ZX200 10,500 hours \$135,000



1997 Diamond D-210
Call for More Info.



2009 Cat 330D, 8,900 hrs. \$250,000

# GROWLEY EQUIPMENT, ING

#### **LOG LOADERS**

2012 Cat 320D
2012 Linkbelt 290X2
2010 John Deere 3754D
2009 Cat 330D
2007 Hitachi ZX200
2007 Madill 3800C
2006 John Deere 2054
2005 Cat 330C
2005 Doosan DX300 LL
2005 Komatsu PC220
2005 Komatsu PC300
2004 Linkbelt 240LX
2003 Linkbelt 290LX
2002 John Deere 200LC
2002 Linkbelt 210LX W/Tong

Thrower
2000 Linkbelt 3400Q W/Winch
1998 Komatsu PC250
1998 Linkbelt 4300Q W/2
Winches

1998 Thunderbird 1240 **YARDERS** 

2000 Cat 320B W/Timbermaster 1998 John Deere 892 W/Timbermaster Christy

Koller K501 Madill 071 4/Guyline Madill 071

# PROCESSORS & DELIMBERS

2009 Kobelco SK260LL W/Logmax 7000XT 2008 John Deere 2554 W/Pierce 3348

2008 Linkbelt 240LX W/Pierce 3348

2008 Valmet 941.1 W/370.22008 2006 Cat 330C W/2010 Waratah 624C

2006 Hitachi 250 w/Pierce 3348 2006 Komatsu PC220 W/Pierce 3348

# PROCESSORS & DELIMBERS Cont.

2006 Linkbelt 210LX W/2012 Logmax 7000XT 2006 Linkbelt 210LX W/Logmax 7000

2006 Valmet EX10 W/370.2 Harvester 2005 John Deere 2554 W/Waratah 622B 2005 Valmet EX10 W/370.2

Harvester 2004 Cat 325CLL W/Waratah 622B

2004 Linkbelt 240LX W/Pierce 2004 Madill 1800 W/Waratah 624 2003 Daewoo 300 W/Pierce 3348 2002 Komatsu PC220LL W/05 622B Waratah

2001 Timbco T-425D W/2004 Logmax 7000 2000 Linkbelt 3400Q W/Pierce 3345

1998 Cat 322B W/Pierce 3345 1998 Timberjack 608B W/Koerhing 762C Harvester FORWARDERS

2007 Cat 564

2007 Cat 564 Forwarder 2006 John Deere 1710D 2006 Timberpro TF840 2004 Timberpro 820 1997 Timbco TF815B

1996 Timberjack 1210 1994 Valmet 860 FELLER BUNCHERS

2012 John Deere 959K 2009 Timbco T-445FXL 2008 Cat 522B 2007 Timbco T-445EXL 2005 Tigercat L870 2004 Timbco T-445EXL

W/Barsaw 2003 Timbco T-425D W/Barsaw

# FELLER BUNCHERS Cont.

2003 Timbco 445E w/hotsaw 2002 Madill T2200B 2002 Timbco 475

# 1995 Timbco T445C W/Barsaw **EXCAVATORS**

2005 Cat 308C 2005 John Deere 135 2000 Kobelco ED180 1998 Komatsu PC200

SKIDDERS/DOZERS 2008 Cat 525C

2006 Cat 517 W/Swing Boom 2005 Cat 517 W/Swing Boom 2003 Cat D5HXL 2003 John Deere 548G3

2003 John Deere 548G3 1998 Cat 527 W/Grapple, Winch 1995 Cat D5H W/Grapple, Winch 1995 Cat D5H W/Swing Boom

1990 Cat D4H w/Winch 1989 Cat D6H W/Grapple Cat D8K

Cat D7E W/Arch, Winch
Cat D7F W/Esco Swing Boom
Cat D7G Arch/Winch
Cat D7H W/Ripper
Cat D6C

# CHIPPERS/GRINDERS Morbark 6036

Morbark 30RXL Super Beaver Screen MISCELLANEOUS 2008 Logmax 12000 2003 JCB 214

2001 Taylor TLS900 Log Stacker

Atlas Copco 185CFM Air
Compressor
Timbco Barsaw
Medford Log Forks (Cat 966)
Satco 630 Grapple Saw
PARTING OUT
Komatsu WA600



2006 John Deere 2554 W/Waratah 622B, 10,000 Hrs. P.O.R.



2006 Cat 325C 11,000 Hrs., 2010 Waratah 624C 3,000 Hrs. \$250,000



**2009 Timbco T-445FXL** 7,100 Hrs. **\$260,000** 

2001 Taylor TLS900 Log Stacker, 11,000 Hours



Main Office/Mike: (541) 688-5924 • Mike Cell: (541) 954-7643 • Eric Cell: (541) 206-2252 • Fax: (541) 688-0704

www.GrowleyEquipment.com • email: mike@CrowleyEquipment.com • eric@CrowleyEquipment.com

# AND SE

our Black and White or Color photo and a description of what you are selling (try to within 20 words - 1 item per ad) and we'll publish it in the Show & Sell for just Mail (or email to logworld@aol.com) your information to Loggers World, 4206 1 Hwy., Chehalis, WA 98532. Deadline is 5th of the month preceeding publication.

**MARCH 2014** 

LOGGERS WORLD



1999 Bomag Model 142PDB-2 Compactor, 1,400hrs, good shape ready for work, Asking \$19,500. Located in Northern CA.

209-256-0364



Trojan 1500Z Wheel Loader, 1.5yd bucket, Deutz diesel, cab, good rubber, starts easy, runs and shifts good, 3spd, F/R, cycles good, no major leaks, \$6,900

Call Stan @ 253-381-2305



1988 Peterbilt 357 Tractor, 425 Cat diesel, 13spd, one owner since new, SSHD, 16 front, good cond., 70k on inframe, **\$19,500** 

Call Stan @ 253-281-2305



1974 Peterbilt Water Tender, has a stainless 3,200 gal tank, was in service last fall, everything is in good shape, tires are like new, has a Detroit diesel motor, 13spd trans, \$14,500OBO 541-409-4142

# **ADVERTISE**

YOUR ITEMS IN THIS SPACE

ONLY....

1-800-462-8283







1995 JD 693 Processor, excavator boom, good u/c, 8,600hrs, 1997 Waratah HTH 20 head, 7,000hrs, topping saw, **\$45,000 firm.** 360-595-0138



1989 Koehring 366 Shovel, grapple 38", Detroit engine 6V71, pilot controls, good cond., strong u/c, \$16,500 OBO Rick 971-303-2234 or Scott 503-547-7986



John Deere Wheel, 503-507-1588





2006 Fecon FTX440 Mulcher, A/C and heated cab, 440hp, Cat power, Fecon BH 350 cutter, push bar, rear winch, pilot controls, very nice machine, \$219,500 541-830-3966



40' Triple Axle Hayrack, 12' spacing on bunks, rebuilt drop axle, 4 new tires, \$10,500 OBO Rick 971-303-2234 or Scott 503-547-7986



1989 Barko 275A, 5.9 Cummins for top motor, 471 Detroit for lower motor, good rubber, working daily in our wood lot, good cond. \$15,500 OBO

Rick 971-303-2234 or Scott 503-547-7986  $_{
m N}$ 

# SHOW AND SELE

Send your Black and White or Color photo and a description of what you are selling (try to keep it within 20 words - 1 item per ad) and we'll publish it in the Show & Sell for just \$85.00. Mail (or email to logworld@aol.com) your information to Loggers World, 4206 Jackson Hwy., Chehalis, WA 98532. Deadline is 5th of the month preceeding publication.

Quadco
22B360VI S/N
855, WOW only
3000 hours. Nicest
one we have had
yet! Straight &
Tight, No Cracks.
All cylinders
resealed. ½ of
New!!
Call Kevin
250-565-5222





**D8H-46A,** S/N 12527, Semi U Dozer Excellent Condition-work ready **\$18,950 OBO** Call John 360-478-0905

**2013 Ford F750,** 300hp, Feterl body & crane, concealed door hinges. **855-498-0610** N



Used Fecon BH74SS skid steer mulcher head, used for one season, reconditioned and painted, \$17,500, call Dick Benson 541-787-5590 Grants Pass, OR, delivery available.

# **ADVERTISE**

YOUR ITEMS IN THIS SPACE ONLY....

\$**85**00

CALL 1-800-462-8283







Case Log Loader, 57,000 lbs, runs good, Pierce boom/Young 360 degree grapple, good U/C. \$15,900.503-784-1128



Read 150A Portable Screen, diesel engine, 5-8yd well, dual tires, good cond. ready to work, 12x7'2" deck screen, \$29,500.

Call Stan @ 253-381-2305



John Deere 753 GL feller buncher, in good working order, working daily, good u/c, \$87,500. 406-793-2210





225D Cat Log Loader on 30 ton Pierce SPP carrier, turbo 3208 Cat in upper, 6v92T Detroit w/Allison in carrier, factory mounted Pierce boom & grapple (not adapter), machine is working daily, runs excellent & travels down the road well \$40,000 509-949-3772



**2002 Hyundai 210 LC-3** w/2002 Waratah HTH 620 Super Cut butt saw and topping saw, excellent log processor **\$58,500**, located in Washington. Call Jim at **360-770-4871** N



1969 Kenworth W921 Boom Truck, 6cyl Cummins w/Jake, 13spd, 5th wheel, has National Model 6t47 crane w/jib, runs good, \$6,950 509-884-7117

(Continued from Page 23)

Last August, after helicopterborne federal officials spent 45 days crisscrossing North Dakota for evidence, Obama-appointed U.S. attorney Timothy Purdon prosecuted seven petroleum producers for the 28 dead birds in or near their open waste pits. Mallard ducks, gadwalls, a solitary sandpiper, and others fatally mistook these pools of industrial discharge for natural ponds. Facing maximum fines of \$15,000 per bird and six months behind bars under the Migratory Bird Treaty Act, these oilmen pled guilty and agreed to pay \$1,000 per bird. On January 18, however, federal judge Daniel Hovland dismissed Purdon's case as excessively broad.

Last July, FWS threatened to fine Alison Capo of Virginia, the mother of 11-year-old Skylar Capo, \$535 for illegally possessing a woodpecker that her daughter saved from a hungry cat and soon released. Public disgust with such power-lust finally made FWS back off.

Three years ago, after FWS investigated, a utility called PacifiCorp paid \$10.5 million in fines after 232 golden eagles and other protected birds were electrocuted after landing on its power lines in Wyoming between January 2007 and July 2009.

Team Obama mocks the solemn words chiseled above the columns of the U.S. Supreme Court: "Equal justice under law.'

If bald eagles dropped dead beside oil derricks, Washington would pound the petroleum industry flatter than Wiener schnitzel. Instead, wind propellers chop bald eagles in half. Team Obama then lets wind companies eradicate even more of this republic's innocent national

This is not the behavior of normal Americans

- National Review Online

## **PDX Rejects Green** political ad

liting its neutrality policy to Inot accept religious or political advertising on its airport and bus properties, the Port of Portland Airport has rejected paid billboard ads submitted by the environmental group Oregon Wild. Wild wanted the airport to post ads as part of a national anti-forestry campaign to defeat a forest industry bill in Congress, which would increase federal forest logging. The slanderous ad depicted a brash picture of a freshly-cut clearcut hillside, sarcastically captioned, "Welcome to Oregon, Home of the Clearcut!"

- AOL Mainline EDITOR'S NOTE: I'd suggest the more appropriate ad would be a photo any forest fires from the past several years, preferably with smoke still stirring, and "Environmental Extremist Management in Action"



Intermountain

# **LOGGING CONFERENCE** & Equipment Show

April 3-5, 2014

Maribeau Park Hotel & Convention Center Spokane Valley, Washington

**Program Theme:** 

"Exciting Opportunities & Challenges for the Next Generation"

**Keynote Speaker: Bruce Vincent** 

For More Information Call: 208-245-3425

www.intermountainlogging.org



Black and White or Color photo and a description of what you are s thin 20 words - 1 item per ad) and we'll publish it in the Show & ail (or email to logworld@aol.com) your information to Loggers wy., Chehalis, WA 98532. Deadline is 5th of the month preceeding pu



# DVERTISE YOUR ITEMS IN THIS SPACE ONLY.... 1-800-462-8283







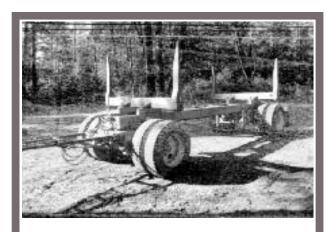
1996 Schaeff Walking Excavator "Spider Hoe", ex-city of Portland Water Bureau, under 2k original hrs, extendahoe, swing boom, thumb, 25k lb hydraulic winch, hydraulic Jones quick change, great cond., \$17,000 OBO Rick 971-303-2234 or Scott 503-547-7986 N



1988 Clark Ranger 667C grapple logging skidder, 5.9 Cummins, new head gasket, fiber mesh gear, drum works, pins tight, 4 tire chains, runs great, \$19,000. Call 503-508-0142, leave message if no answer.



D7H-D7R SU dozer blade, 503-507-1588



Freuhaf Short Log Trailer, old but very good cond., needs scales & tires, \$4,500 N CA 530-343-7341



## REDWOOD REGION LOGGING CONFERENCE

REDWOOD EMPIRE FAIRGROUNDS
UKIAH, CALIFORNIA
FOR INFORMATION CALL: (707) 443-4091

14-15



# WCLA ANNUAL MEETING

RED LION HOTEL AT THE PARK SPOKANE, WASHINGTON FOR INFORMATION CALL: (800) 422-0074 Ext 103

**APRIL** 

3-5

## Intermountain Logging Conference & Equipment Show

Maribeau Park Hotel & Convention Center Spokane Valley, Washington For Information Call: (208) 245-3425

30-May 2



## OLYMPIC LOGGING CONFERENCE

FAIRMONT EMPRESS HOTEL
VICTORIA, BRITISH COLUMBIA
FOR INFORMATION CALL: (360) 202-7014

**SEND EVENT NOTICES TO:** Publisher, Loggers World Magazine, 4206 Jackson Hwy., Chehalis, WA 98532-8425. Please include your event's symbol. Items used at discretion of the publisher. **Deadline** for April 2014 issue: MARCH 19th.

# Advertiser's Index

ADVANCED HYDRAULIC AND OLIVER	H
IND. SUPPLY14 SHOP.	••••
ANTI-SEIZE TECHNOLOGY OLYMPIC (A.S.T. INDUSTRIES INC)8	
Cascade Trader4, 5 Oregon	T
CC HEAVY EQUIPMENT INC7 PACIFIC	Fı
Confluence Energy16 Inc	••••
Cowlitz River Rigging17 PROLEN	сI
CROWLEY EQUIPMENT INC23 Brake	•••
DUNLAP ENTERPRISES10 REDWOO	D
EAGLE CARRIAGE & MACHINE CONFE	RE
INC12 ROTHEN	BU
Fraley Tractor, Inc13 Schaef	ER
FULL CIRCLE FINANCE6 SCHMUN	ΙΚ'
HIGH CASCADES AGENCY14 INC	••••
Intermountain Logging Show &	S
CONFERENCE26 SOUTHE	RN
IRONMART	ÍΑ
KOLLER NORTH AMERICA18 TRIPLE	W
LOCK & LUBE16	
LOGGERS WORLD	
SUBSCRIPTION	GТ
LOGGERS WORLD INONWART 22	
MADSEN'S SHOP & SUPPLY, INC	Μc
MPI Equipment	E

OBENAUF'S20
OLIVER HAMMER CLOTHES SHOP3
OLYMPIC LOGGING CONFERENCE18
OREGON TRACTOR TRADER20
PACIFIC FIBRE PRODUCTS, INC3
PROLENC HEAVY DUTY SWING BRAKE3
REDWOOD REGION LOGGING CONFERENCE20
ROTHENBUHLER ENGINEERING6
Schaefer Enterprises19
SCHMUNK'S TIRE CENTER, INC21
Show & Sell24, 26
SOUTHERN GLOVE10
TRIAD MACHINERY, INC19
Triple W Equipment21
WARATAH FORESTRY ATTACHMENTS9
Washington Contract Loggers Assoc18
WHITE MOUNTAIN CHAIN12
ZENDER EQUIPMENT15

LOGGERS WORLD

FOR
ADDITIONAL
ADVERTISER
INFORMATION

Use this Reader's Inquiry Card

, A	P,
ÁA	*/

# Loggers World • March 2014 Issue

INQUIRIES MUST BE MAILED NO LATER THAN: APRIL 30, 2014

READERSHIP INQUIRY CARD

This Readership Inquiry Card is provided for easy access to more data on the products and services

This Readership Inquiry Card is provided for easy access to more data on the products and services March 2014 issue of *Loggers World*. Circle matching numbers on card, complete all blanks, put in an envelope, stamp and mail. **NOTE:** Incomplete and illegible inquiries will not be processed. Data will come directly from manufacturer.

30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 11 21 31 41 51 61 71 81 91 101 111 121 131 141 151 161 171 181 191 12 22 32 42 52 62 72 82 92 102 112 122 132 142 152 162 172 182 192 23 33 43 53 63 73 83 93 103 113 123 133 143 153 163 173 183 193 24 34 44 54 74 94 104 114 124 134 144 154 164 174 184 194 14 64 84 15 25 55 35 45 65 75 85 95 105 115 125 135 145 155 165 175 185 195 16 26 36 46 56 66 76 86 96 106 116 126 136 146 156 166 176 186 196 57 87 117 127 137 147 157 167 177 187 18 28 38 48 68 78 88 98 108 118 128 138 148 158 168 178 188 58 198 29 39 49 59 69 79 89 99 109 119 129 139 149 159 169 179 189 199

Name		(Please leave one space between each word. Please print or type)																		
Nam	e of I	Firm	or Co	mpa	ny															
Address																				

Phone (Include area code)

Mail To: Loggers World, 4206 Jackson Hwy., Chehalis, WA 98532-8425

Check the category best describing your company's business:

- 1. Logging Operator
- Timber Cutting Contractor
   Mill Owner
- 4. Log Trucker: 4a. Operator/Owner
  - 4b. I own \_\_\_\_\_Trucks
- Road Builder
   Other (Specify):
- What best describes your

primary job?

1. Owner/Operator 2. Foreman

3. Supervisor 4. Jobber5. Other (please specify):

My purchasing budget this year is:

1. \$0-\$50,000 2. \$50,000-\$100,000 3. \$100,000-\$200,000 4. Over \$200,000

How many people will read your magazine?

your magazine?
1. 1-2 People
3. 5-6 People

2. 3-4 People4. More than 6 People

How many people does your company presently employ:

1. 0-2 People 3. 5-20 People

2. 2-5 People4. More than 20