



WOGCC

**Wyoming Oil and Gas
Conservation Commission**



Reservoir Management Group

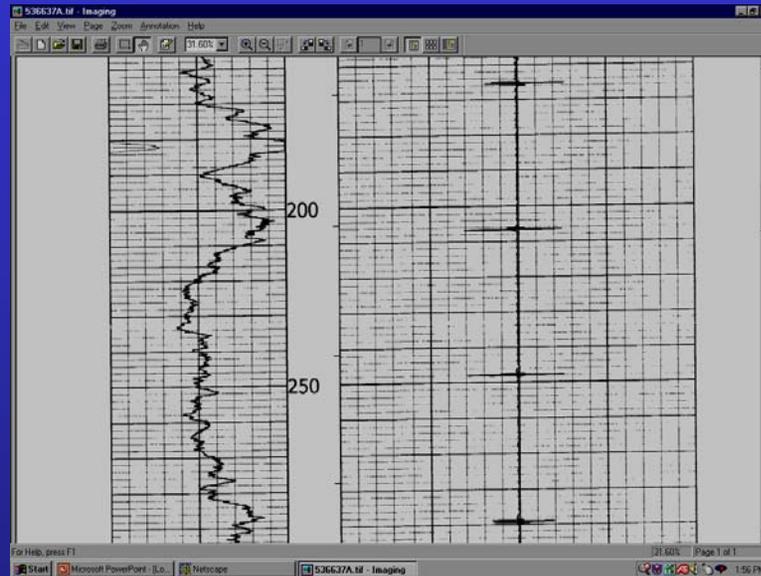
Wyoming State Office

Well Log Scanning

Cooperative Project

What is the Goal of the Well Log Scanning Cooperative Project?

Goal:



Provide easy web-based access to all of Wyoming's Well Logs for review and further study.

Wyoming Oil and Gas Conservation Commission (WOGCC)



BEST COPY AVAILABLE Schlumberger **DUAL INDUCTION-SFL WITH LINEAR CORRELATION LOG**

COMPANY DAVIS OIL COMPANY
 WELL MERGANSER NO. 2
 FIELD WILLCAT
 COUNTY WILLCAT

BEST COPY AVAILABLE Schlumberger **BOREHOLE COMPENSATED SONIC LOG**

COMPANY DAVIS OIL COMPANY
 WELL MERGANSER NO. 2
 FIELD WILLCAT
 COUNTY CAMPBELL STATE WYOMING

5-86177 **FLORY & ASSOCIATES** **RECEIVED**
APR 02 1982
WYOMING OIL & GAS CONSERVATION COMMISSION

POSTED **GEOLOGICAL WELL LOG**

OPERATOR DAVIS OIL COMPANY ELEVATION GROUND 4545'
 WELL NAME NO. 2 MERGANSER ELEVATION KB 4557'
 LOCATION SW, NE SECTION 30 TOWNSHIP 48 N RANGE 71 W
 COUNTY CAMPBELL STATE WYOMING RIG NO. 119
 CONTRACTOR BURRIS DRILLING CO STATUS DBA
 SPUD FEB 23, 1982 TD MAR 24, 1982
 LOG TO 10,541 DRILLER TO 10,561

 30

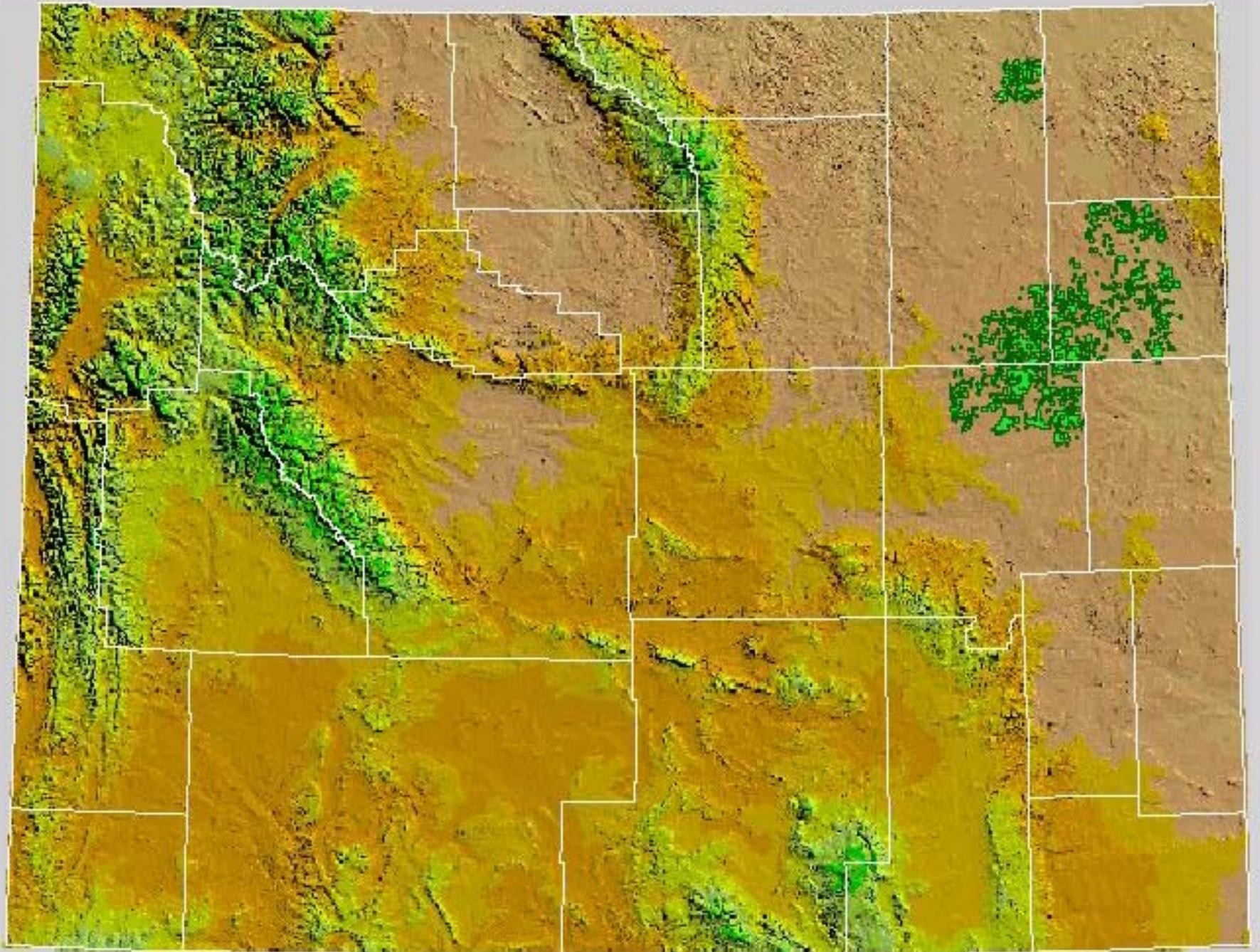
CASING B 5/8" - 632
 GEOLOGIST STEVEN VEALEY
 ELECTRICAL SURVEYS DIL, BHC

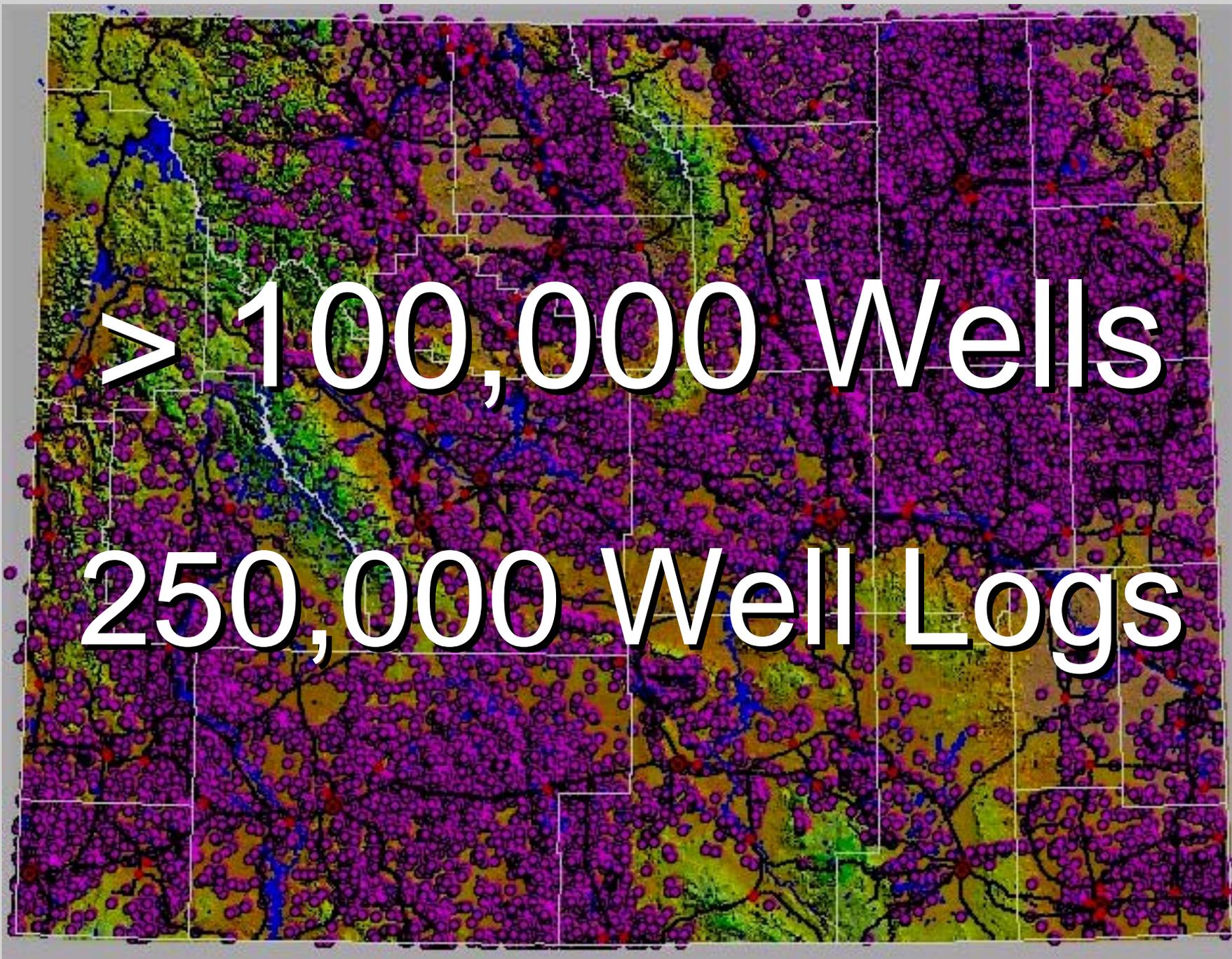
Scale Up Hole

Velocity (ft/sec) Interval Transit Time (MICROSECONDS PER FOOT)

DEPTH

CALIPER DIAM. IN INCHES

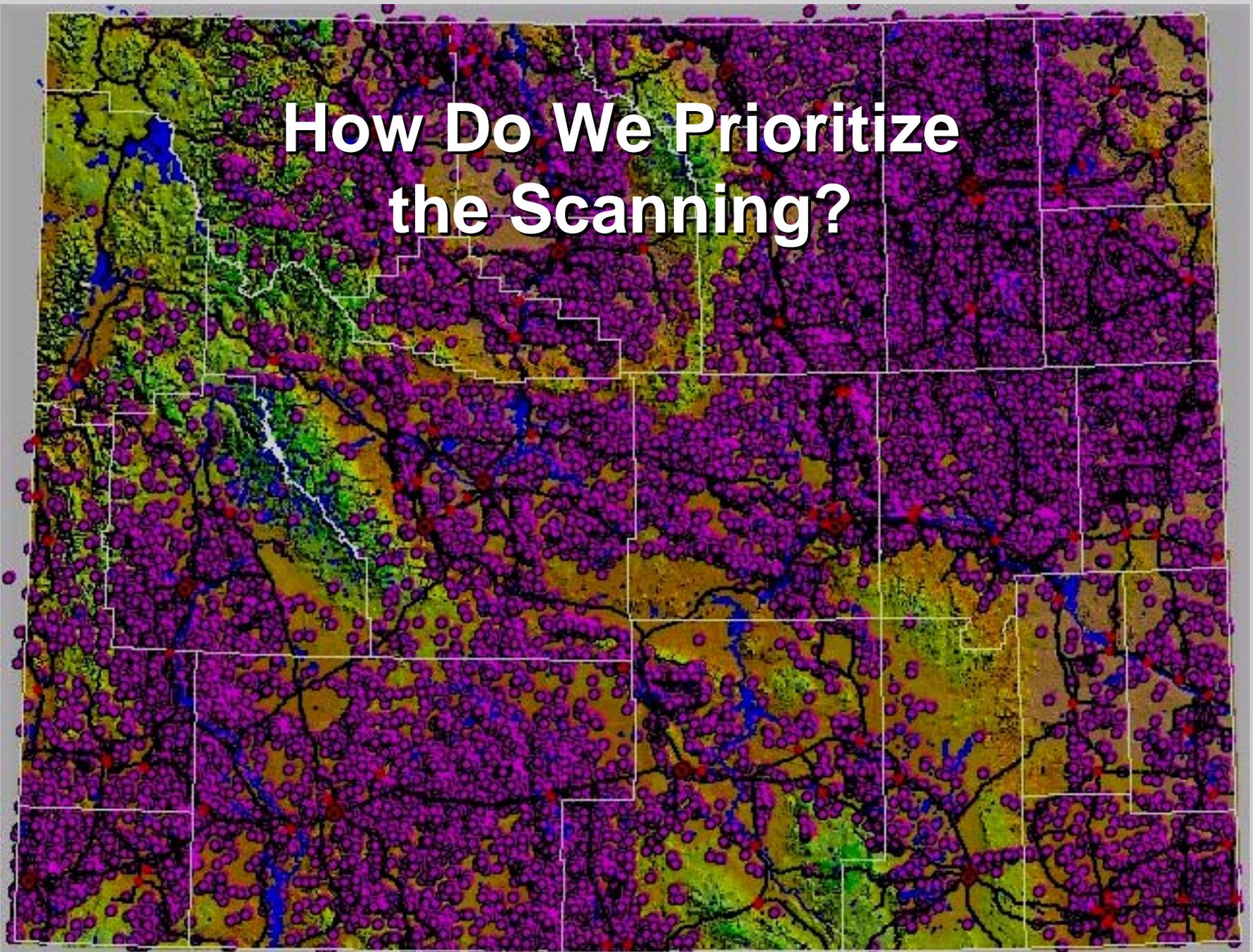




> 100,000 Wells

250,000 Well Logs

How Do We Prioritize the Scanning?



Priorities?

Overthrust
Belt

#2 Priority

Powder River
Basin

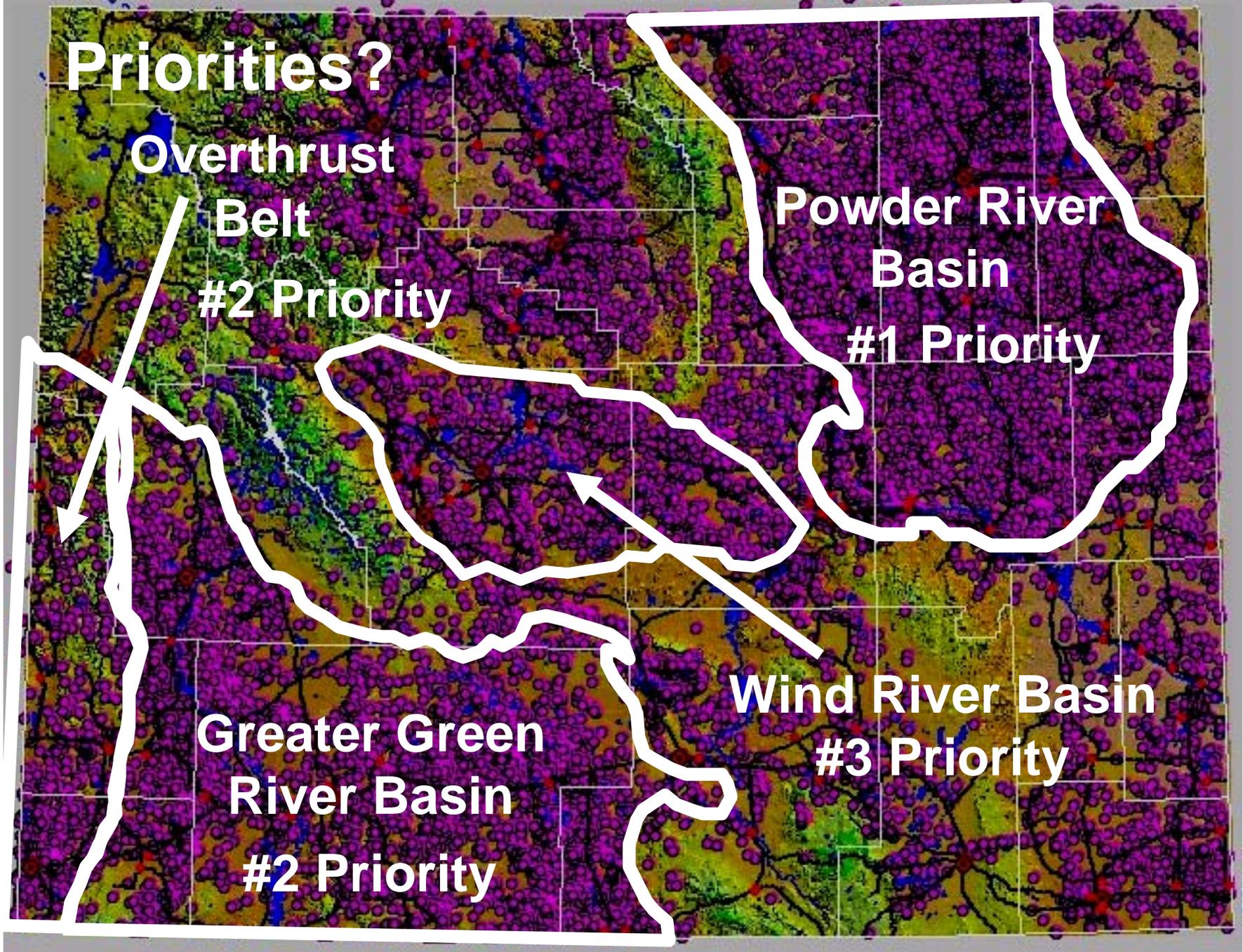
#1 Priority

Greater Green
River Basin

#2 Priority

Wind River Basin

#3 Priority



Well Log Scanning Project

COMPUTALOG
Gamma Ray Cement Bond Log

Company: Continental Resources Inc.
Well: Cottonwood Creek NPA #281
Field: Washakie
County: 10057N & 10757W
State: WY
Location: 45° - 04'3" - 208.56' N 42W
10057N & 10757W

SEC: 17
Twp: 47N
Rng: 90W
Section: 4562
Other Section: 01, 4567

Ground Level: 4170
19' Above Perm. Depth

Well Status: Active
 Abandoned
 Other

RECEIVED
APR 13 2006
WASHAKIE AREA

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RECEIVED
APR 13 2006
WASHAKIE AREA

Who Benefits?

- ✓ The Oil and Gas Industry Benefits
- ✓ The BLM Benefits
- ✓ The Public Benefits

Benefits to the Oil and Gas Industry:

- Don't have to physically visit the WOGCC, BLM office, or commercial well log service to view or copy well logs, resulting in a substantial savings of both time and money,
- Speeds up geologic reviews, and submission of any resulting Application(s) for Permit to Drill, and
- In the future, may not be required to submit copies of all well logs run on Federal wells, to the respective BLM offices.

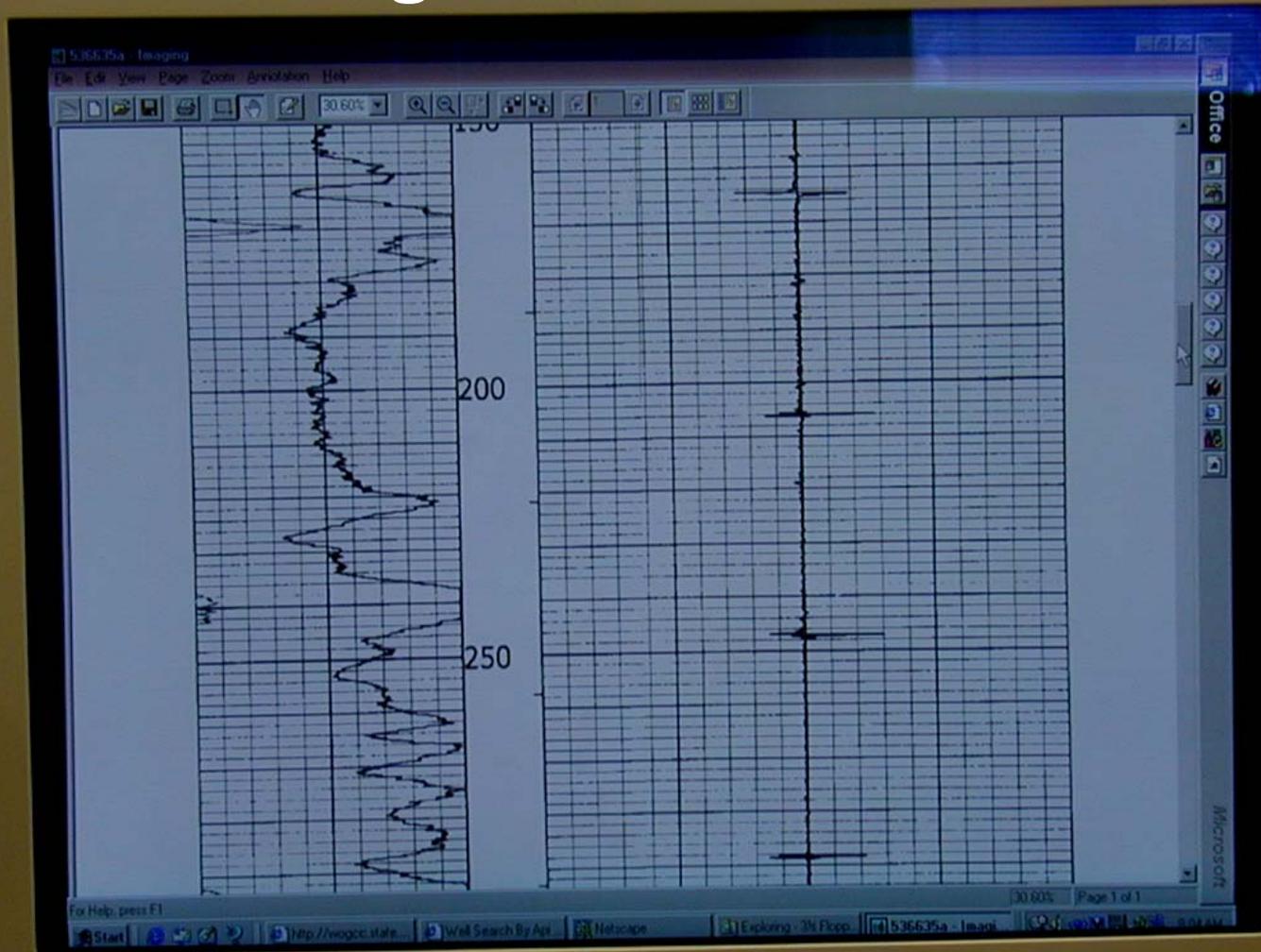
Benefits to the Public:

- Easier for oil and gas industry from outside the state to do work in Wyoming. This will result in:
 - More State, Federal, and Fee oil and gas leases being leased,
 - More APDs,
 - More oil and gas produced, and ultimately,
 - More lease bonuses, lease rentals, Ad Valorem, and Severance taxes, and royalty monies to the people of Wyoming and the country.

Benefits to the BLM:

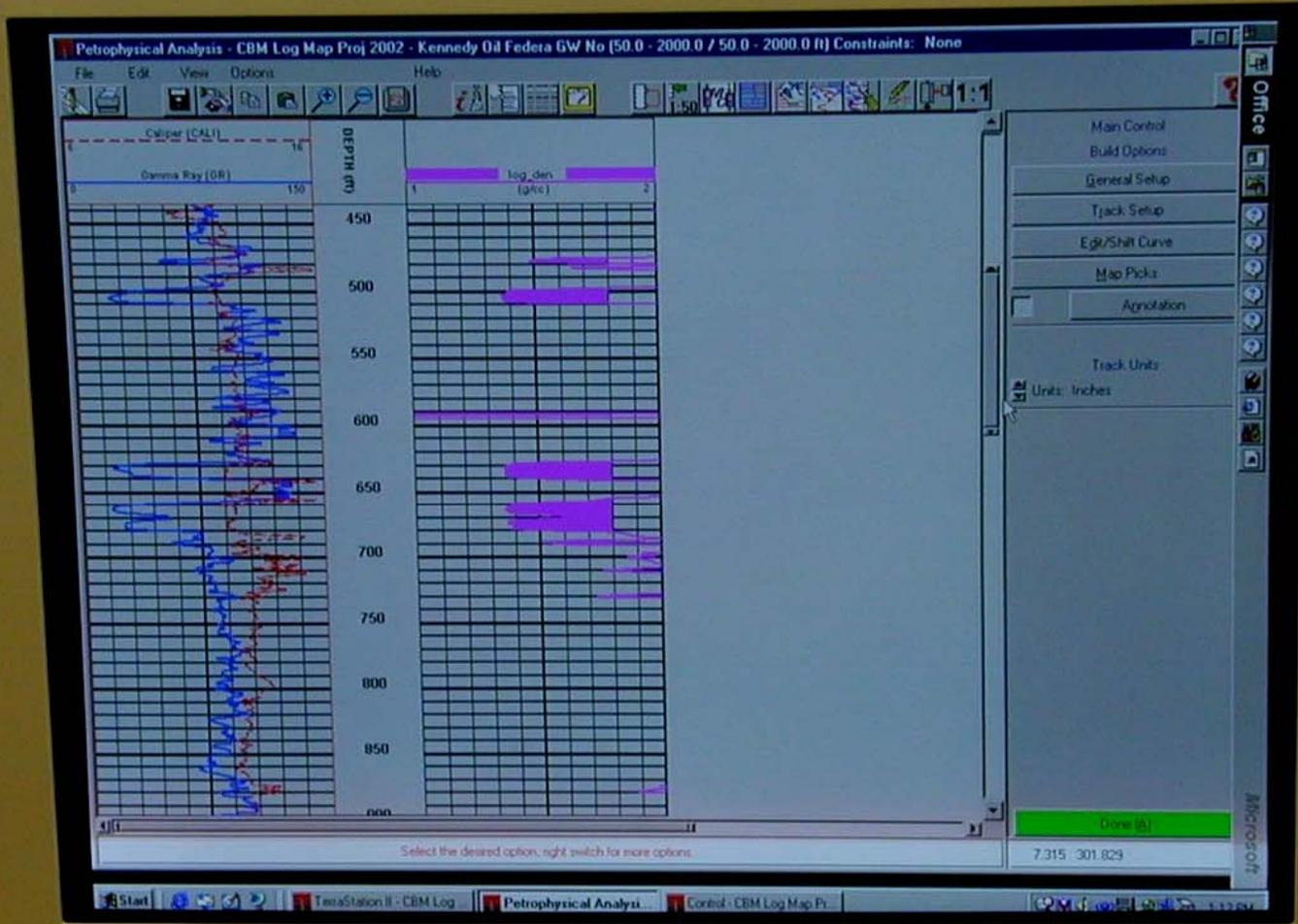
1. Current industry and BLM reservoir management practice includes analysis of well logs in a digital format. A scanned well log image provides the first step to digital well log analysis.

Scanned Image from WOGCC Web Site



Digitized Well Log

Trinitron

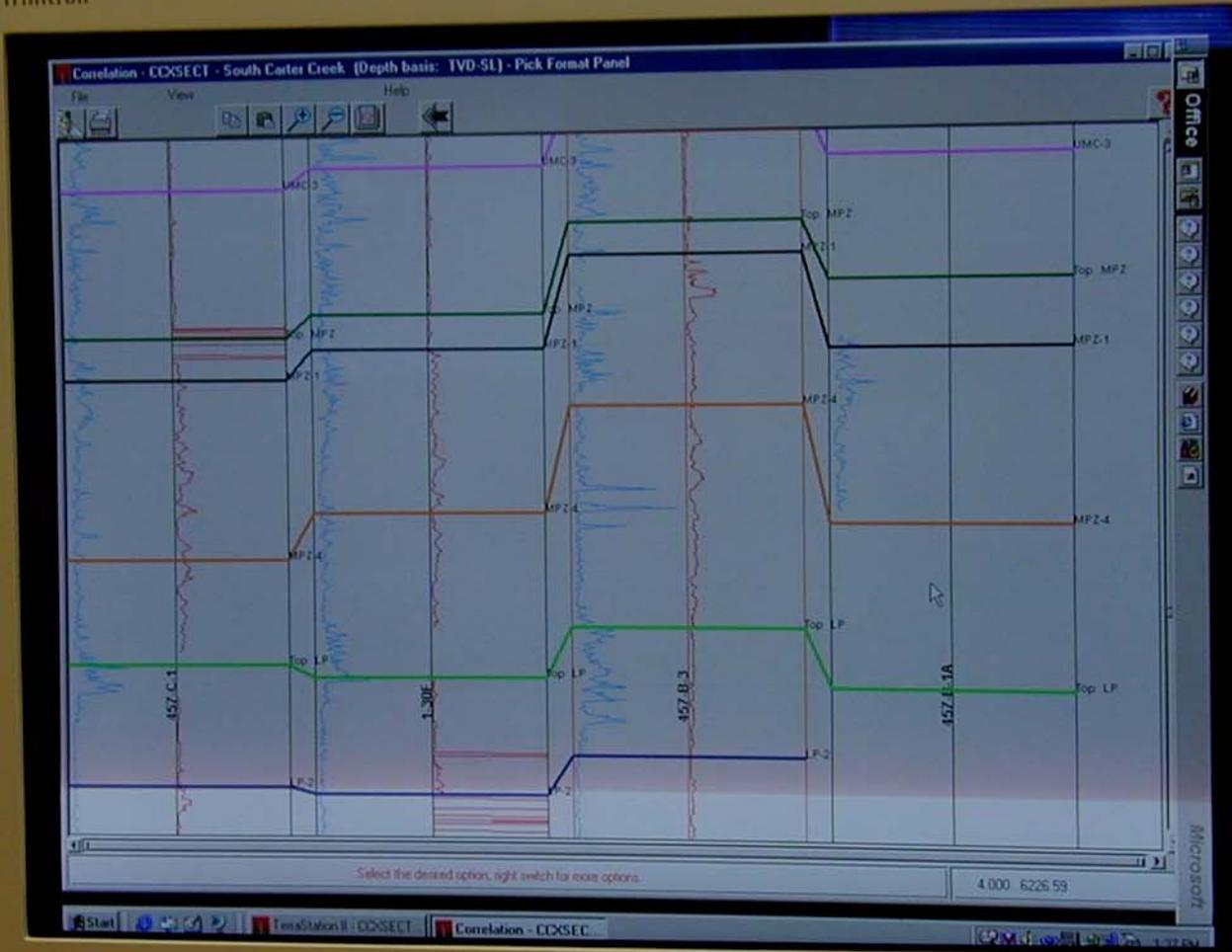


DELL

PAPER

Geologic Cross Section

Trinitron



DELL

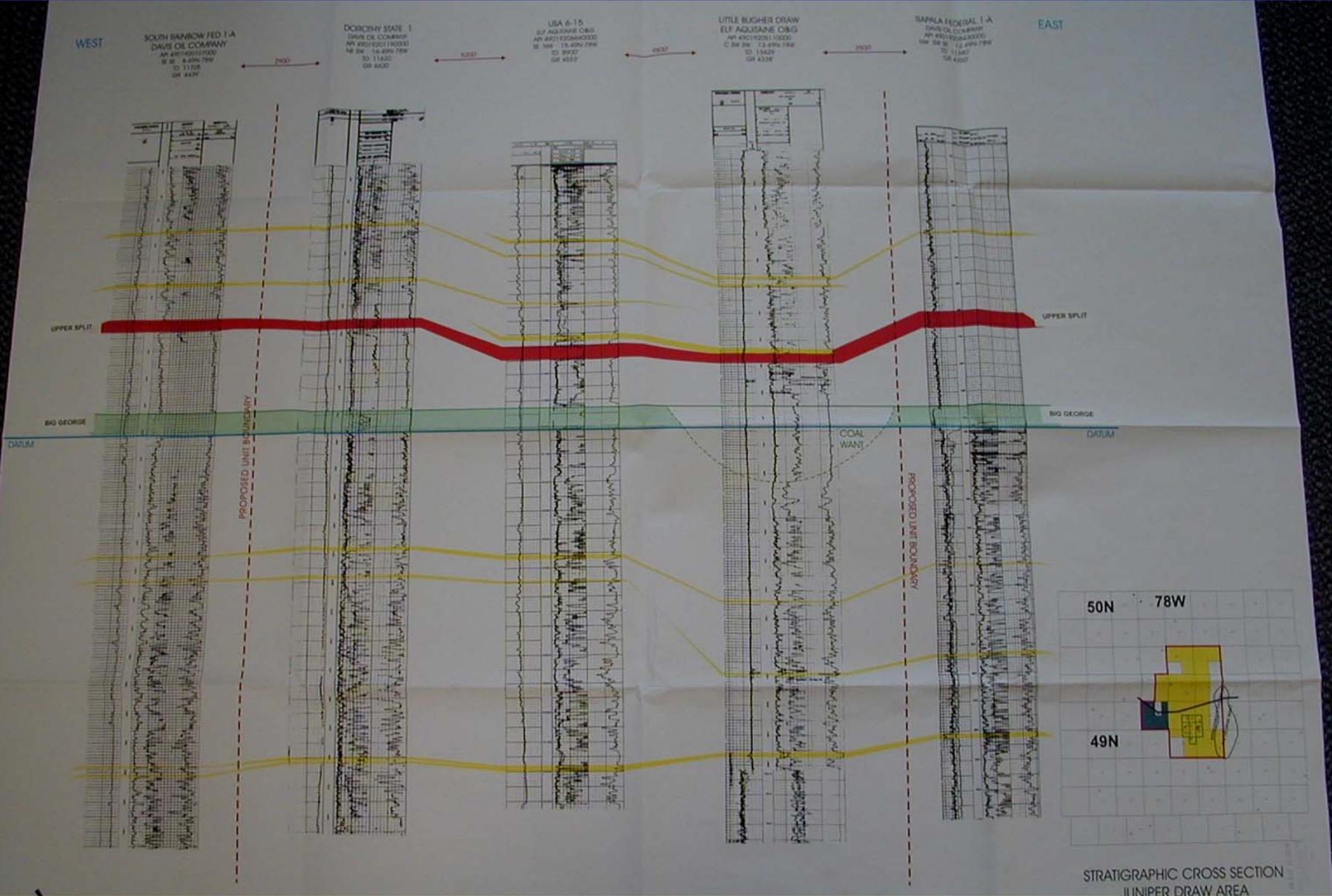
PAPER

G
Na



errastation II
Volume 2 - Well Data Processes

Hard Copy Output



Benefits to the BLM:

2. Operators may not be required to submit copies of all well logs run on Federal wells, saving extensive time, space, and money from the sorting, filing and subsequent storage of these well logs.

**Separate Warehouse
3.3 Miles from the Office
Minimal Temperature Controls**







Benefits to the BLM:

3. BLM offices could discontinue further microfilming of Federal well logs resulting in a cost savings to the Federal government.

In addition:

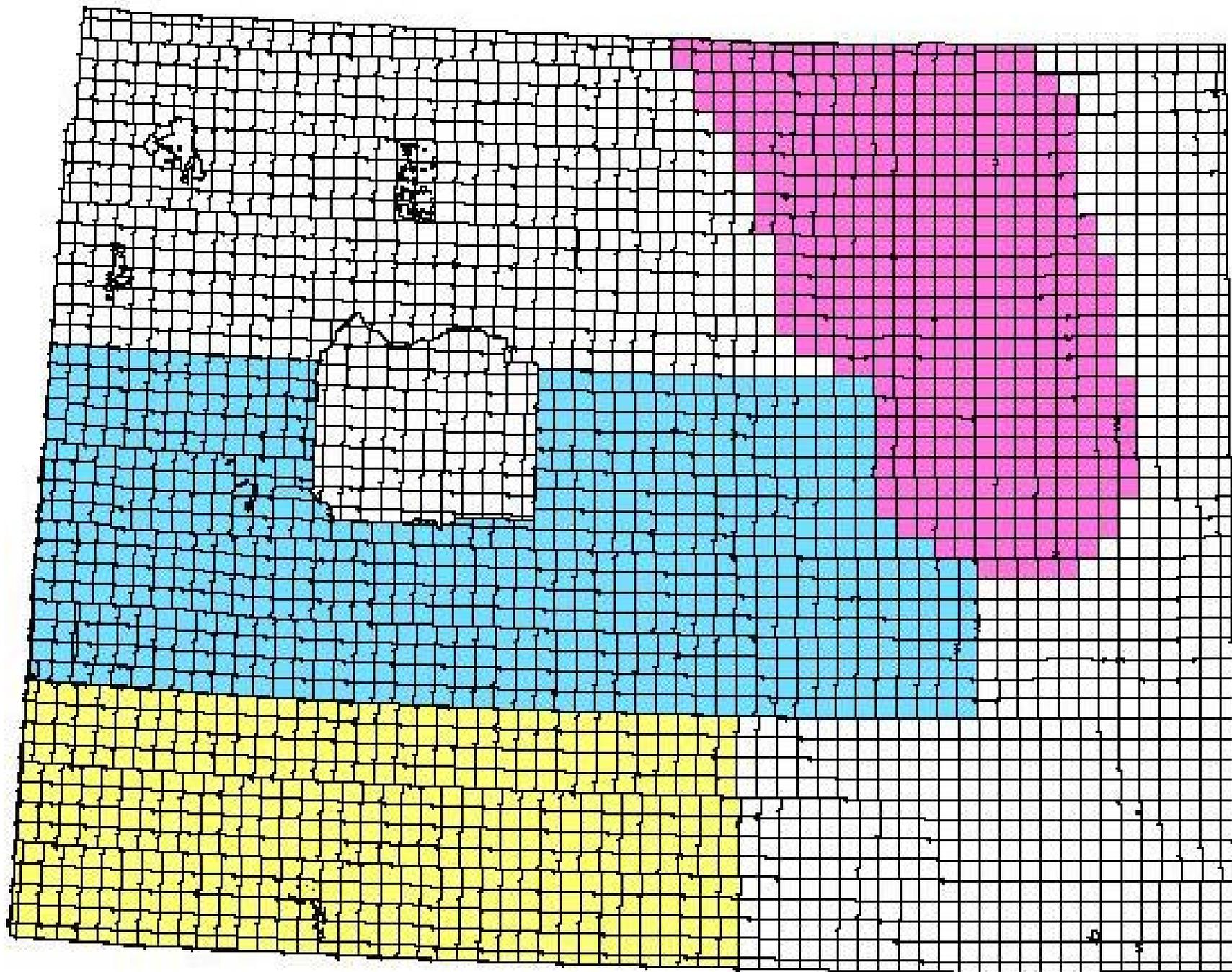
- BLM would realize cost savings associated with Well Log Microfilm Reader/Printer purchases and maintenance, and
- Quality of scanned image far better than microfilmed image

Well log Printer



What is the Current Log Scanning Project Status?

- ❑ June, 2001 – Project commenced
- ❑ June 15, 2004 – surpassed 136,000 well logs scanned (approx. 50-60% complete)
- ❑ Powder River Basin is 100% complete
- ❑ Greater Green River Basin and Overthrust is 100% complete
- ❑ Wind River Basin is 100% complete
- ❑ Great Divide/Washakie Basin 75% complete





**Constance Goad
Scanning a Well Log**