



# Oklahoma Corporation Commission

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**Wayne Wright**

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Oil and Gas Conservation Division

# IOGCC

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- The IOGCC has supported the Oil and Gas Division many times in the past.
- In 2006 Weidner Consulting was contracted by the IOGCC to assist the Oil and Gas Division.
- With guidance provided by Weidner the Division developed a Strategic Plan and Goals.

# Strategic Goals

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1. Inspect all wells within five years
2. Improve information systems
3. Increase well data compliance
4. Reduce backlogs
5. Review and update division rules and procedures

# Strategic Goals

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## 1. Inspect all wells within five years

- Total of roughly 140,000 wells
- Rate of about 2350/month
- 28,910 wells inspected in FY07\*
- 29,009 wells inspected in FY08\*

\* 18,671 wells inspected and GPS data entered so far in FY09. Total YTD 76,590 wells.

# Plugging orphan wells

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- Complete inventory (running total)
  - 602 wells on plugging fund list
  - Plus 1,226 wells on orphan well list
- Plug high-priority wells promptly
  - Priority 1 wells within 7 days
  - Priority 2 and 3 wells within one year
  - Priority 4 and 5 wells as budget allows

# Plugging orphan wells

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- Plugged 308 wells in FY08\*

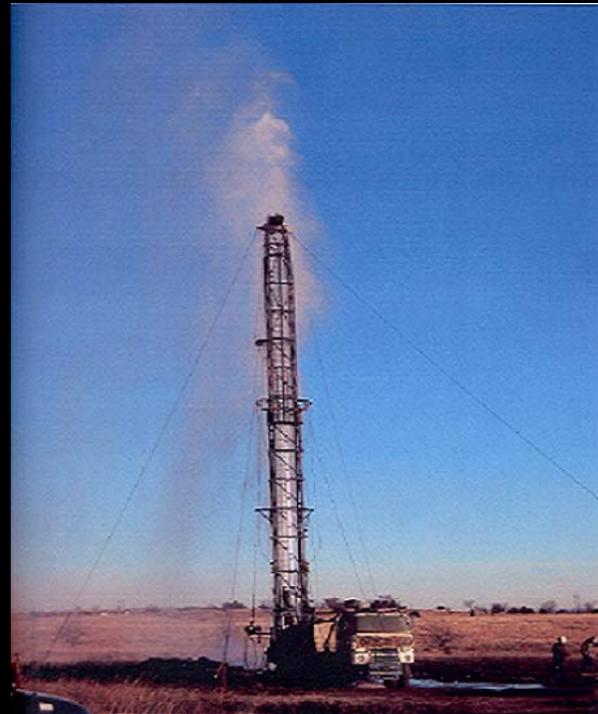
\*140 so far in FY09



# OCC takes over

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- At times the OCC has to take a well from an operator and complete the plugging operation.



# Strategic Goals

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- Paperless, with wireless transmission.
- Field Operations made the migration from paper to paperless with all forms used by the field inspector by June 30<sup>th</sup>, 2007.
- Difficulties with wireless coverage in several parts of the state. The inspector can make connection at certain points within his area.

INTEGRATING  
WIRELESS  
APPLICATIONS into  
**RBDMS**

and

UTILIZING MULTIPLE FUNDING  
SOURCES

# Integration of Information REQUIREMENTS

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- GPS Data.
- Overlays to Aerial photos.
- Image capture.
- All information from facility, location of well or leak site transmitted to laptop via Bluetooth.
- Handwritten notes.
- Accomplished from a handheld unit.

# WHY a HANDHELD UNIT?

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- Eliminates subjecting laptop to extreme conditions outside of vehicle.
- Bluetooth technology.
- On board image capture capable.
- COTS (commercial off the shelf) Software.
- Allows for seamless integration with computer system.

# Handheld GPS Unit

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**Integrated GPS receiver and antenna  
Bluetooth wireless technology**

**One Bluetooth Serial Port**

**Power switch for GPS and Bluetooth  
Power supply connector**

**Status LEDs – Power, GPS, Bluetooth  
Removable Li-ion battery, ~10hr  
duration**

**Has default Bluetooth passkey**

**Compatible with Microsoft  
Bluetooth stack**

**Supplied with International wall  
charger, vehicle power adapter.**

# ENFORCEMENT

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- Spills – GPS used to input location, input waypoints of boundaries and mark data.
- Mark locations for compliance enforcement.
- UIC compliance enforcement.

# Laptop Computer

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- All data will be transmitted to the Inspector's laptop which is located in the vehicle.



At the computer the information is integrated with other data, photos, spreadsheets, forms or maps.

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# Mobile Equipment Upgrades

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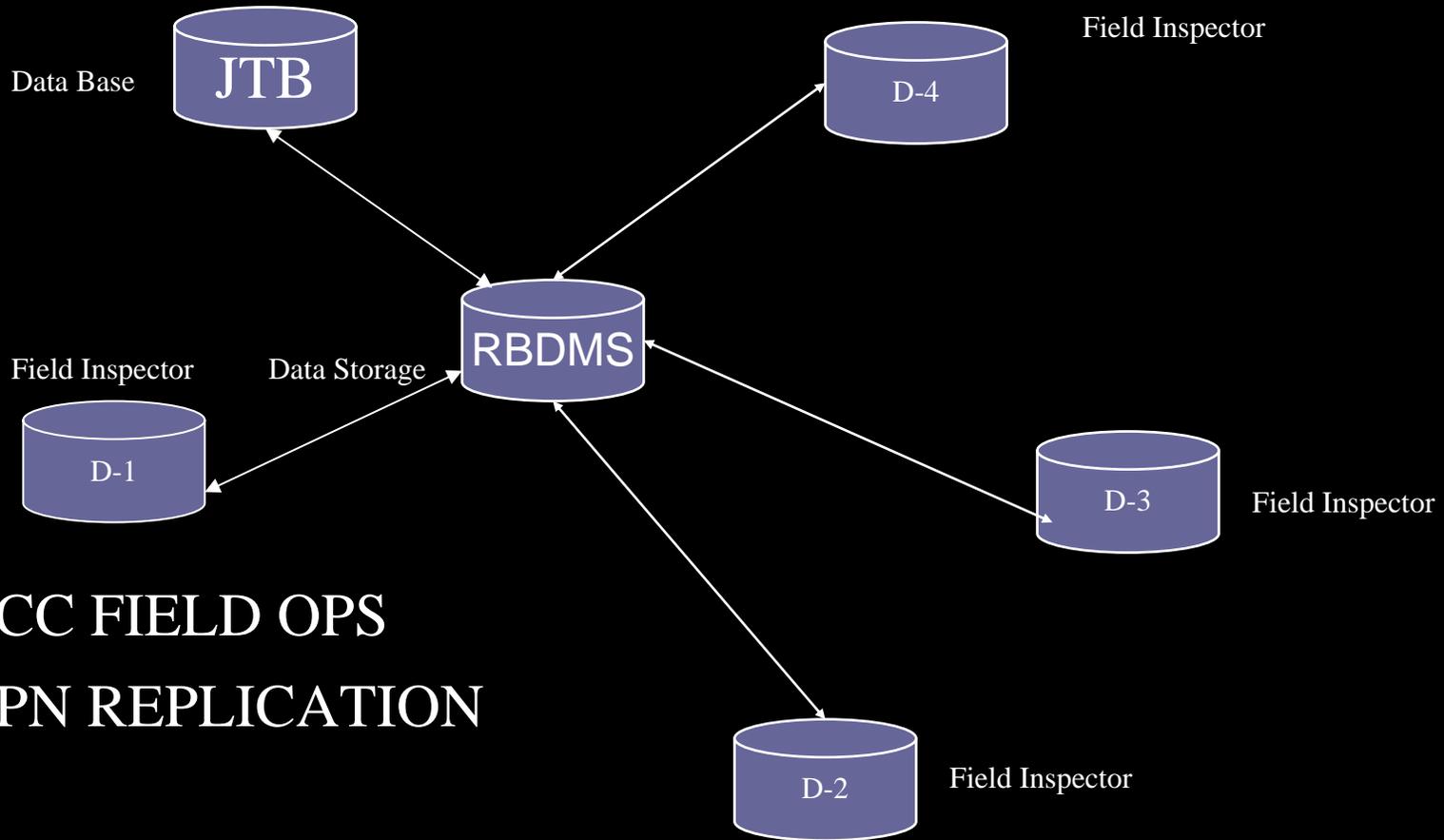
- With the purchase of additional equipment we will increase the effectiveness and speed of communication between the Field Inspector's laptop and the District Office.

# District Offices

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- The upgraded equipment will allow for increased speed.
- Information can then be transmitted to a District Office computer for storage, distribution and filing.
- (or replication?)

# FUTURE



OCC FIELD OPS  
VPN REPLICATION

# FIELD INSPECTION

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- Leaks, spills or other compliance issues are inspected and reported in the standard format. In Oklahoma the report is input to a Form 1085 and transmitted to the District Office this procedure is compatible with **RBDMS** and will easily integrate into that system.



# Well and Facility Inspections

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- Well/facility inspection data entered to the Handheld GPS can Bluetooth to the laptop for transmission and will be integrated into **RBDMS**.



# UIC

- UIC well GPS data is transmitted Bluetooth (with photo) to Laptop and can be included on the UIC inspection and mechanical integrity test (MIT) (Form 1075) which is compatible and will integrate into **RBDMS**.



Operators can sign in field, email to office or receive hard copy on location.

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# What Next?

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- As we have done in the past, we will have to be innovative.
- Find new sources and use old standbys.
- Search for funding and technology.

# Blended Funding and Technology Sharing



# Acquiring Funds

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- How do we acquire funds for this new technology?
- At every opportunity we promote to gain support.
- At every opportunity we expose to industry.
- At every opportunity we exhibit to public.
- We will show our project to anyone!

# Utilizing Multiple Funding Sources

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**GRANTS**



# Utilizing Multiple Funding Sources

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## ■ BUDGET



# Utilizing Multiple Funding Sources

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- REIMBURSEMENTS
- DIRECT FUNDING

The logo for OERB is displayed in a stylized, bold, black font on a white rectangular background. The letters are thick and blocky, with a slight slant. A registered trademark symbol (®) is located at the top right of the letter 'B'.

**OERB<sup>®</sup>**

# Utilizing Multiple Funding Sources



**GWPC with RBDMS**

The **GWPC** has heavily supported all participating States with the implementation of **RBDMS**

# Utilizing Multiple Funding Sources



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Oklahoma Secretary of  
Energy



# Utilizing Multiple Data and Information Sources



BLM



U.S. Fish & Wildlife Service



# Utilizing Multiple Data and Information Sources

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- NRIS (National Resource Information System)



- DOE



- Oklahoma University

