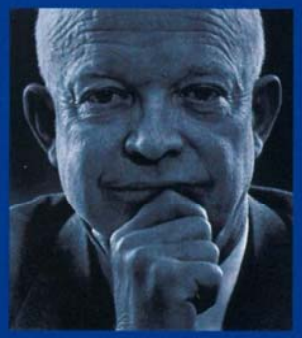
Oklahoma Corporation Commission

Bob G. Griffith Sr.
A+, NET+, MCP,MCSA,MCSE,McDBA,BS
Sr. Information Systems Services Coordinator
Oil and Gas Conservation Division

Remember the Train??

"Neither a **wise man** nor a brave man lies down on the tracks of history to wait for the train of the future to run over him."



Dwight D. Eisenhower
34th President of the United States

IOGCC

- 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

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

1. Inspect all wells within five years
   - Total of roughly 230,000 active well records
   - Rate of about 3200/month statewide
   - 28,910 wells inspected in FY07*
   - 29,009 wells inspected in FY08*

* 163,000 wells inspected and GPS data entered into RBDMS to date.

Plugging orphan wells

- Complete inventory (running total)
  - 425 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

Strategic Goals

- Paperless, with wireless transmission.
- Field Operations made the migration from paper to paperless with all forms used by the field inspector by June 30th, 2007.
- Difficulties with wireless coverage in several parts of the state has improved greatly. The inspector can now make connection at more points within his area with total coverage up to 90% of the state.

INTEGRATING WIRELESS APPLICATIONS into RBDMS

and

UTILIZING MULTIPLE FUNDING SOURCES

Wireless Technology at Work

Integration of Information REQUIREMENTS

- 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.

Handheld GPS Unit

- 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.

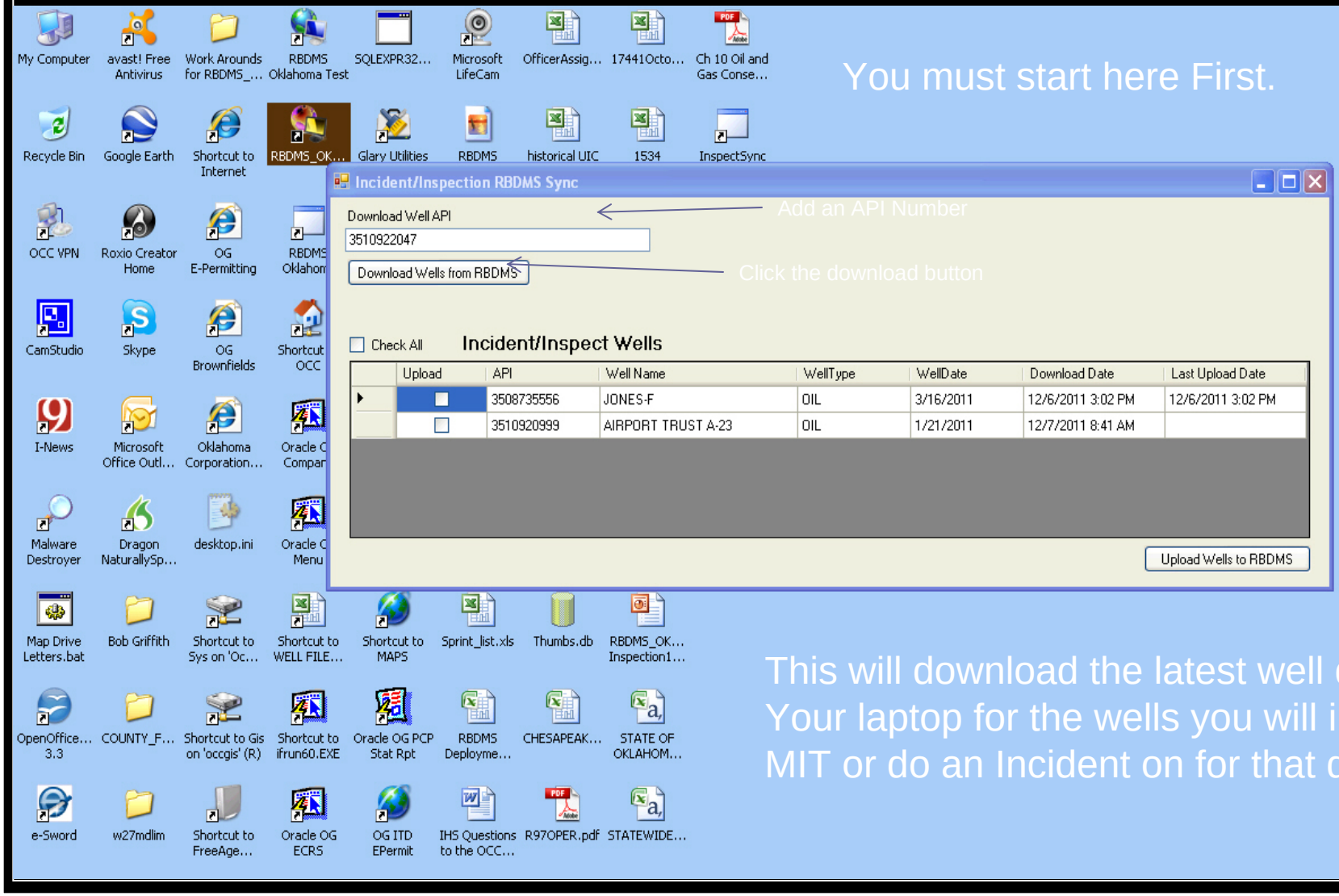
ENFORCEMENT

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

Laptop Computer

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

Data updated through a Web Based Sync



You must start here First.

This will download the latest well data to Your laptop for the wells you will inspect or MIT or do an Incident on for that day

Well inventory is displayed by clicking the Well Tab.

Rbdms.Net

RBDMS Home Page | Reference Activities | Logout | Help

Find

20751 Go

- Entities (4)
  - Operator
    - (20751) DEVON ENERGY PRODUCTION CO LP
    - (2822) RORING ROY W
    - (21823) TUSCANY OPERATING LLC
  - Wells (0)

Find
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Incidents
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Help

Home | (20751) DEVON ENERGY PRODUCTION CO LP

Entity Information

Entity Name:	DEVON ENERGY PRODUCTION CO LP		
First Name:	Jessica Hefley	Title:	
Entity Type:	Company	Org Type:	Operator
Status:	Open	Parent:	
Agreement Date:		Total Depth:	6333945
Operator Number:	20751	Total Bond Amount:	25000.00
Approved By:	OCCDOMAIN\G88	Affidavit on File:	✓
Tax ID:	[redacted] EIN SSN Driver's License #		
Notes:	7-14-10 FAXED COPY OF LST YRS 6B W/O FEIN,SSN OR DL NUMS TO DEBRA JACOBSON		

Apply Changes | Delete Entity

Addresses | Contact Numbers | Roles | Officers | Affiliates | Bonds | Dates | Branch Offices | Wells

Transfer Wells

968 Well(s)

API	Lease Name	Well #	Legal	Type	Status
35-005-20042-00-01	A.MULLEN (AKA A.MULLIN 1)	1-32	32-3S-11E:N2 -S2 -SE4-NW4	GAS	AC
35-005-20285	THOMAS	1-34	34-2S-10E: - --CSE4		AC
35-005-20285-00-01	THOMAS	1-34	34-2S-10E: - --CSE4		AC
35-005-20285-00-02	THOMAS	1-34	34-2S-10E: - --CSE4	GAS	AC
35-005-20285-00-03	THOMAS	1-34	34-2S-10E: - --CSE4	GAS	AC
35-007-36087	FLOWERS B NWCU 3-3	3	8-1N-20E: - -CSE4-SE4		AC
35-007-36088	FLOWERS B NWCU 4-3	4	8-1N-20E: - -SE4-SW4		AC
35-009-20621	SUTTON	2	10-10N-26W: -S2 -N2-SE4	GAS	PA
35-009-20749	SAULS	1-11	11-10N-26W: -SW4 -NE4-SW4	GAS	PA

Click Button to Open a Record

Well Record

Rbdms.Net

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Home | (20751) DEVON ENERGY PRODUCTION CO LP | 3501122489 HAIGLER-1-26 26-18N-13W:-W2-SE4-SE4

Well Information

API:	35-011-22489	New API	
Operator:	DEVON ENERGY PRODUCTION CO LP	Operator Number:	20751
Well Name:	HAIGLER	Number:	1-26
Type:		Lease Name:	HAIGLER
Commingle Down:	☐	Commingle Surf.:	☐
Well Transfer Blocked	■	Status:	P&A
Modify Date:	6/7/2010 6:48:00 PM	Modify User:	OCCLSGSQL\dave.rose
Comment:			

Apply Changes | Delete Well

Aliases | Dates | Construction | Location | Incidents | Inspections

Add Copy

Alias Type	Well Alias	Last modified by	Last modified on

Base well record screen which will include all casing and cement

UNDER THE LOCATION TAB YOU 'LL FIND LEGAL LOCATION AND GPS DATA

Rbdms.Net

RBDMS Home Page | Reference Activities | Logout | Help | RDL Report Server

Find

13-11N-04W | Go

Entities (0)
Wells (17)
- 3510921336 WILL ROGERS UNIT(ROWLAND#1-13)-38:SE4 SW4 S
- 35109213360001 WILL ROGERS UNIT(ROWLAND#1-13)-38
- 3510921341 WILL ROGERS UNIT(COSBY#1-13)-37:SW4 SE4 SE4
- 3510921485 WOODSON PARK-1:NE4 SW4 SE4 13 11N 4W Indian
- 35109214850001 WOODSON PARK-1:NE4 SW4 SE4 13 11N 4W In
- 3510921508 ROWLAND-18C-1:SW4 CNE4 18 11N 4W Indian
- 35109215080001 ROWLAND-18C-1:SW4 CNE4 18 11N 4W Indian
- 35109215080002 ROWLAND-18C-1:SW4 CNE4 18 11N 4W Indian
- 3510921595 ROWLAND-1:SE4 SE4 SW4 13 11N 4W Indian
- 35109215950001 ROWLAND-1:SE4 SE4 SW4 13 11N 4W Indian
- 3510921603 ROWLAND-18C-2:SE4 CNW4 13 11N 4W Indian
- 3510921603 ROWLAND-18C-2:SE4 CNW4 13 11N 4W Indian
- 3510921603 ROWLAND-18C-2:SE4 CNW4 13 11N 4W Indian
- 35109216030001 ROWLAND-18C-2:SE4 SE4 SW4 13 11N 4W India
- 3510921604 USF&G-#18C-3: 13 11N 4W Indian
- 35109216040001 USF&G-#18C-3
- 35109216040002 ROWLAND (FNA USF&G 18C-3)-#18C-3: 13 11

Find
Inspections
Incidents
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Reports
Help

Home | 3510921336 WILL ROGERS UNIT(ROWLAND#1-13)-38:SE4 SW4 SW4 13 11N 4W Indian | 3510921508 ROWLAND-18C-1:SW4 CNE4 18 11N 4W Indian

Well Information

API:	35-109-21508	New API	
Operator:	UNIT PETROLEUM COMPANY	Operator Number:	16711
Well Name:	ROWLAND	Number:	18C-1
Type:		Lease Name:	ROWLAND
Commingle Down:	☐	Commingle Surf.:	☐
Well Transfer Blocked	☑	Status:	Active
Modify Date:	11/29/2011 9:34:20 AM	Modify User:	OCCDOMAIN\g03
Comment:			

Apply Changes | Delete Well | Transfer Well

Aliases | Dates | Construction | Location | Incidents | Inspections | Documents

Add | Copy

Type	Long	Lat	County	Q2.5	Q10	Q40	Q160	Sec	Twp	Dir	Rng	Dir	PM
SURFACE	-97.56877	35.42175	OKLAHO	SE4	SE4	SW4		13	11	N	4	W	Indian

Enter your GPS here from now on no more spreadsheets

Click on the Construction Tab to see Casing and Cement records.

Rbdms.Net

RBDMS Home Page | Reference Activities | Logout | Help | RDL Report Server

Find

3510921336 Go

- Entities (0)
- Wells (2)
  - 3510921336 WILL ROGERS UNIT(ROWLAND#1-13)-38:SE4 SW4 S
  - 35109213360001 WILL ROGERS UNIT(ROWLAND#1-13)-38

Find
Inspections
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Home | 3510921336 WILL ROGERS UNIT(ROWLAND#1-13)-38:SE4 SW4 SW4 13 11N 4W Indian

Well Information

Well Name:	WILL ROGERS UNIT(ROWLAND#1-13)	Number:	38
Type:		Lease Name:	WILL ROGERS UNIT(ROWLAND#1-13)
Commingle Down:	☐	Commingle Surf.:	☐
Well Transfer Blocked	☑	Status:	
Modify Date:	6/8/2010 3:24:00 AM	Modify User:	OCCLSGSQL\dave.rose
Comment:			

Apply Changes | Delete Well | Transfer Well

Aliases | Dates | Construction | Location | Incidents | Inspections | Documents

Add Copy

Sidetrack	Completion	Lateral Type	Active?	Comp Date
00(Original)			☑	10/15/1986

Click here to show/hide data form

Casing | Construction Dates | Perforations | 1016 Pressure Tests

Add Copy

Diam	Top	Bottom	Weight	Grade	Type	New Pipe	Install Date	Feature
12250	0	1241				☑	11/18/1986	

Click here to show/hide data form

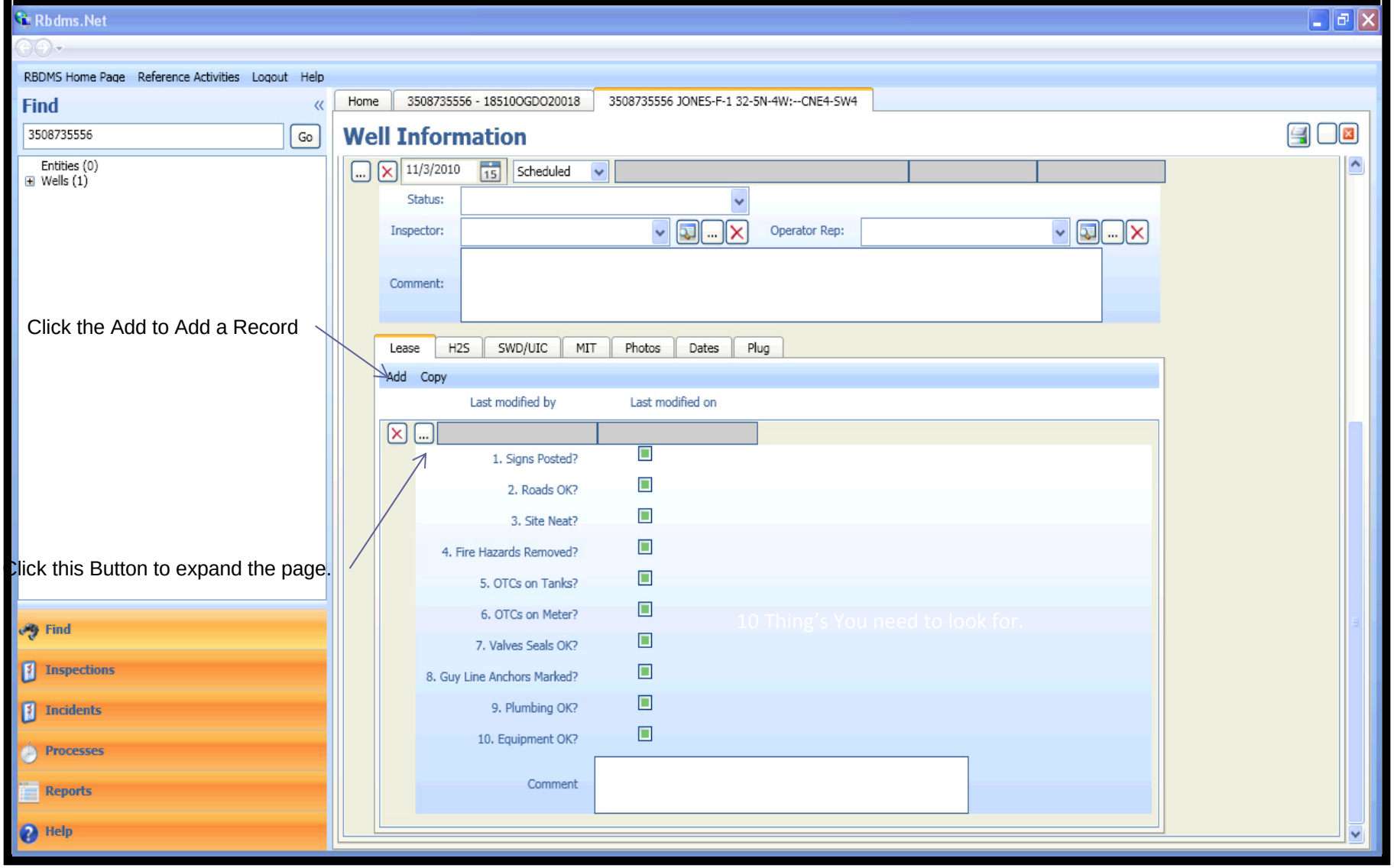
Cement

Add Copy

Top	Bottom	Job Type	Install Dt	Bit Size	Liner Top	KB Depth	Height	Circ Ind.	Left Pipe	Plug Witnessed
		Completi	11/18/1986	12250	0	1241	1260		42	☑

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

Well Inspection



Click the Add to Add a Record

Click this Button to expand the page.

Well and Facility Inspections

- Well/facility inspection data entered into RBDMS. Then using wireless technology it can then be Synced back for QA/QC by the District Office and then approved to go into the Master data base

H2S Inspection Screen

Rbdms.Net

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Home | (20751) DEVON ENERGY PRODUCTION CO LP | 3501122489 HAIGLER-1-26 26-18N-13W:-W2-SE4-SE4

Well Information

Date | Type | Comment | Last modified by | Last modified on

Show Calenda 15

Status:

Inspector: | Operator Rep:

Comment:

Lease | H2S | SWD/UIC | MIT | Photos | Dates | Plug

Add | Copy

Last modified by | Last modified on

Wind Socks?

Leaking Pipes?

Corroding Pipes?

Venting > 100ppm?

Last test Results

Contingency Plan?

Specialized Equipment

Site Security?

Warning Signs?

Special Equipment

Comment

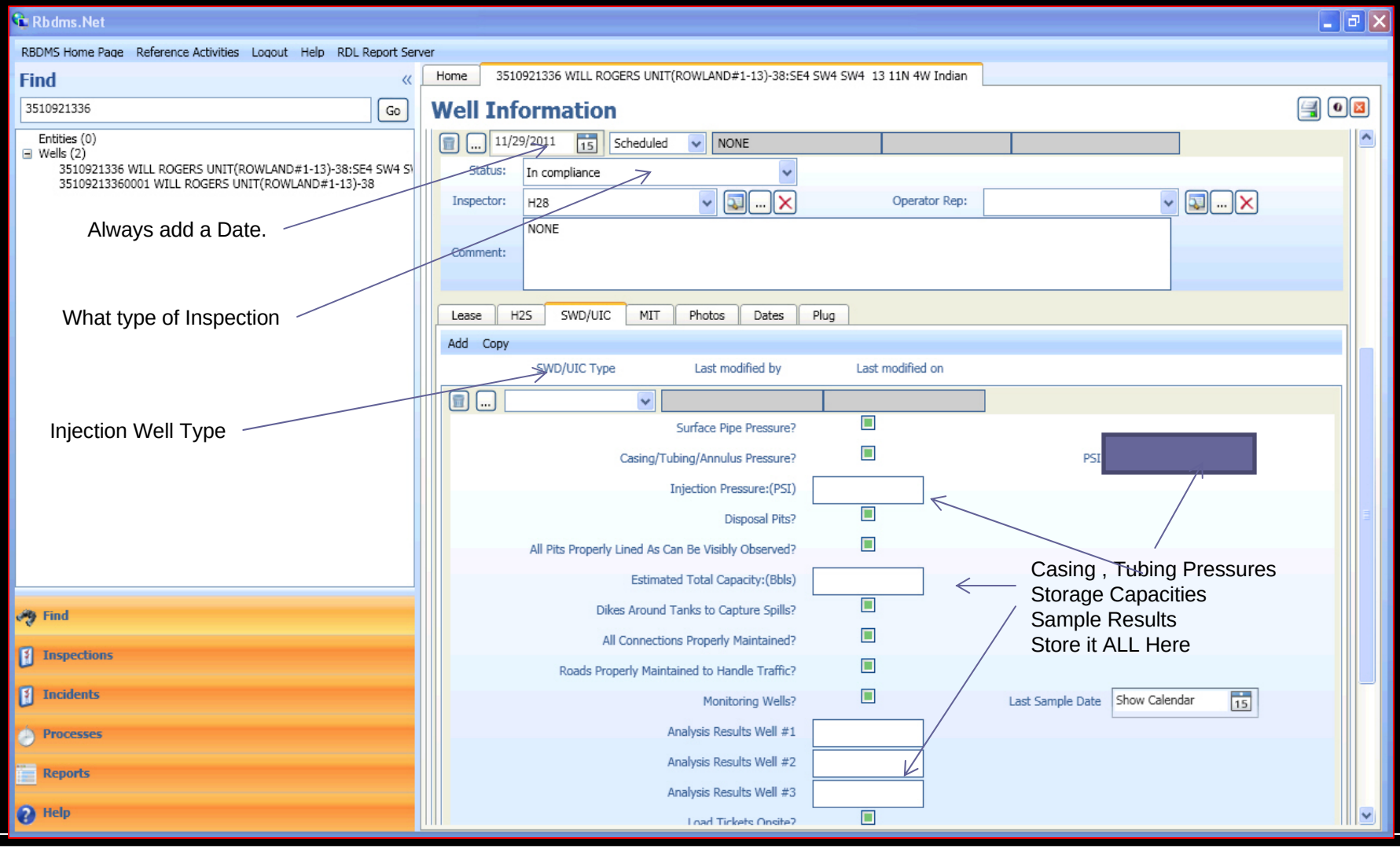
Don't forget to add a Date.

Default Green Box if it is Okay

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 entered into RBDMS.

SWD\ UIC INSPECTION



Operators can sign forms in the field and have them emailed to their office or receive a hard copy on site.

MIT screen

Rbdms.Net

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Well Information

Date	Type	Comment	Last modified by	Last modified on
Show Calenda				

Status:
Inspector:
Operator Rep:
Comment:

Don't Forget the Date

Lease | H2S | SWD/UIC | MIT | Photos | Dates | Plug

Add Copy

Test Type	Well Type	Pass / Fail	Last modified by	Last modified on

Test Type

Rework Before Test?
Explain
Surf Casing Press., Before Test
Tubing Press., Before Test
Annulus Press. Before
Flowback Volume
Max. Press. Per OCC Order
Packer Depth Per OCC Order
Actual Packer Depth
Estimated Packer Depth
STARTING TEST PRESS.
ENDING TEST PRESS.
Positive Annulus Pressure Monitoring?
WELL SHUT DOWN?
Reason
Alternative Testing Procedure Authorized by OCC Order No.
Tracer Survey Passed?
Fluid Level Passed?
Tubing Pressure Passed?
Fluid Depression Passed?

FIELD INSPECTION COMPLIANCE

- Leaks, spills or other compliance issues are inspected and reported in the standard format. In Oklahoma the report is input into an Incident Form and transmitted to the District Office with RBDMS and can be easily viewed in that system.

Incident Form 1085

Rbdms.Net

RBDMS Home Page | Reference Activities | Logout | Help | RDL Report Server

Incidents

- Create New Incident
- Find by Incident Number
- Show Incidents by API
- Pending Incidents

Home | - 18510OGDO20060

Incident Information

Incident Number:	18510OGDO20060		
Lease Name:	JONES-F	Operator:	WHITE OPERATING COMPANY
Well API:	35-087-35556	Legal Description:	SW4 CNE4 32 5N 4W Indian
Incident Type:	Well Site	ComplainantType:	Citizen
Complainant:	BILL SMITH	Complainant Referred By:	
Responsible Party		Last Known Operator	
State Fund?	No	Enforcement?	Initial
District	2	Status	Unconfirmed Complaint
OCC Supervisor	BRAD ICE	OCC Inspector	Gary Matli
Reviewer	Tony Cupp	Approved By:	Linda Witt

Apply Changes | Delete

Dates | Complaint/Incident | Responses | Violations | Brownfields\OERB | Record Search | Photos

Add | Copy

Event Date	Event Type	Event Description	Last modified by	Last modified on
12/8/2011	Discharge / Leak / Spi	Tank Leak		

- Find
- Inspections
- Incidents
- Processes
- Reports
- Help

Incidents can be done on either a Well or a compliance issue that does not involve a Well.

Mobile Equipment Upgrades

- 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.

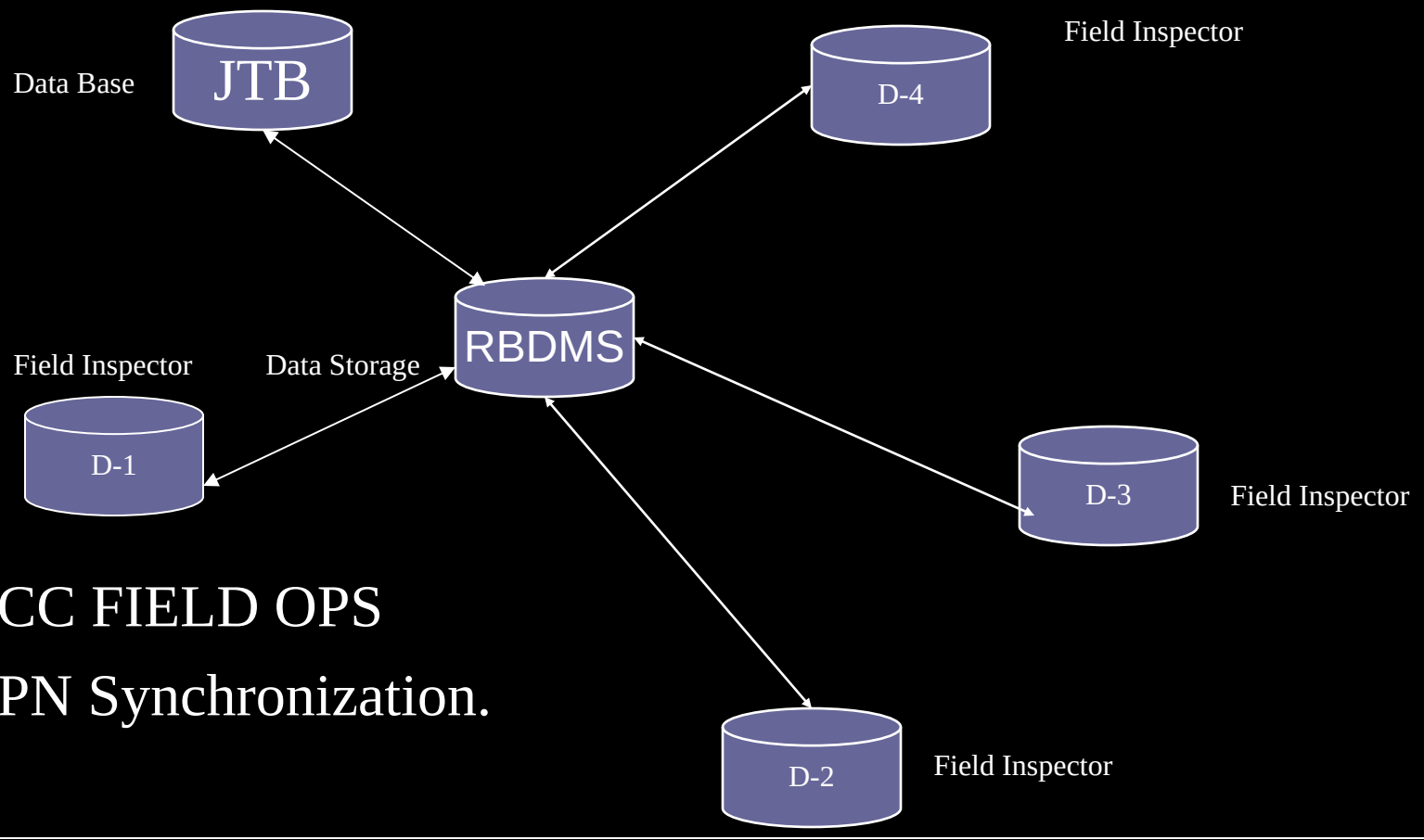
Faster Computers with Touch Screen Technology.

The Latest 3G/4G Wireless Connections

District Offices

- The upgraded equipment will allow for increased speed.
- Information can then be Synced to a Master Data Base so they can be viewed by the District Office computers .

The FUTURE is NOW



OCC FIELD OPS

VPN Synchronization.

RBDMS ELECTRONIC WELL DATA FILING

Oklahoma Corporation Commission - Electronic Well Data - Microsoft Internet Explorer provided by Oklahoma Corporation Commissio

http://occlsgweb2/EWFilesOCC/webforms/home.aspx

File Edit View Favorites Tools Help

Favorites | Andrew Walls DDS, PC | Free Hotmail | Bing™ Traffic | Get More Add-ons | Customize Links | Windows | Windows Media

Oklahoma Corporation Commission - Electronic Well Data

Page Safety Tools

Oklahoma Corporation Commission

ENERGY • TRANSPORTATION • UTILITIES

Welcome Bob Griffith, G03.

- Home
- 1001A
- 1002A
- 1003C
- 1004
- 1012A
- 1015
- 1016EZ
- 1023
- Formation Maint.
- Form Search
- Inspect Sync

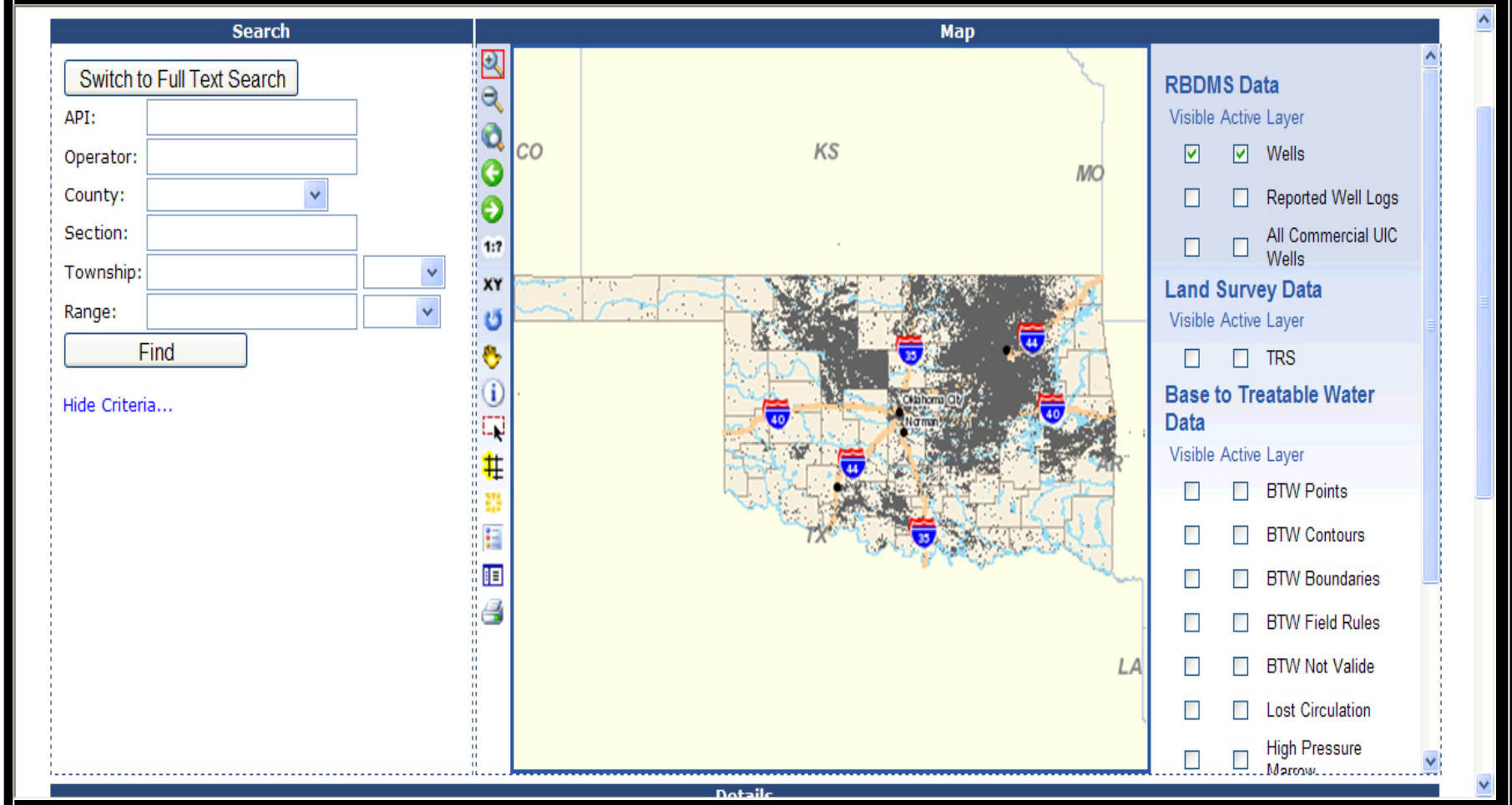
PRODUCTION

Welcome to the Oklahoma Corporation Commission's Electronic Well Data System.

Form Type	New	In Process
1001A	0	0
1002A	159	437
1003C	0	2
1004	0	498
1012A	0	542
1015	0	3
1016EZ	0	0
1023	0	0

Done | Local intranet | 100%

OCC DATA MINING WEB SITE



What Next?

- 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.

Acquiring Funds

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

Utilizing Multiple Data and Information Sources

OKLAHOMA CONSERVATION COMMISSION

State of Oklahoma OWRB WATER RESOURCES BOARD the water agency

NRCS Natural Resources Conservation Service

OKLAHOMA DEPARTMENT OF WILDLIFE CONSERVATION

NATIONAL SYSTEM OF PUBLIC LANDS

BLM

U.S. FISH & WILDLIFE SERVICE

U.S. Fish & Wildlife Service

U.S. Department of the Interior

Utilizing Multiple Data and Information Sources

- NRIS (National Resource Information System)
- DOE
- Oklahoma University
- GROUND WATER PROTECTION COUNCIL

Our Industry is Changing

Let's make sure that We are on

the Train.

Thank You