



## UIC Completion Reporting Guidance

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Injection-Storage Permits & Support

## PRESENTATION OVERVIEW

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- Overview of terms and definitions
- Examples of RRC webpage research
- Step-by-step guidance for W-2/G-1 online completions for injection, disposal, brine mining, and hydrocarbon storage wells
- Starting or updating a completion packet, entering data, additional forms, submitting, messaging, and problem resolution

Please ask questions during the presentation.

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## COMPLETION REPORT OVERVIEW

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- Completion Report – refer to Statewide Rule (SWR) 16
  - W-2 Oil
  - G-1 Gas
- New drill
- Subsequent completion reports are required when any physical change is made to the well such as any change in perforations or casing records
- Proration Schedule
  - Add or remove wells
  - Change of well type (Reclass) and/or change of well number

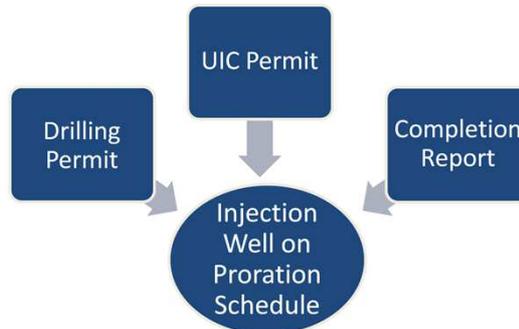
4

**Completion reports provide required well information to RRC in 2 main areas: wellbore construction & proration schedule.**

## COMPLETION REPORT OVERVIEW



- Field Name & Field Number
  - Must match on all 3



5

**This is an overview of the relations between the Injection Permit, the Drilling Permit and the Completion Report. This is important. The Completion Report has to tie the 2 permits together. Here I am indicating that the Field Name & Field Number have to match on all 3 forms.**

## INJECTION PERMIT FORMS OVERVIEW

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- H-1/H-1A
  - Enhanced Recovery
  - Oil and Gas Waste Disposal
- W-14
  - Oil and Gas Waste Disposal
- H-2
  - Brine Mining
- H-1/H-1A, H-4
  - Underground Hydrocarbon Storage

6

**Here is a summary of the 4 forms used for Injection or UIC permit types. UIC stands for Underground Injection Control. The term “Enhanced Recovery” is used to distinguish injection from disposal. The term injection is used broadly for all 4 categories.**

## TERMS & DEFINITIONS



- API Number : 10-digit number assigned to well
- Well Number : D or L D D D L L , D=digit L=letter
- RRC District No.
- RRC Oil Lease No. : 5 digit number
- RRC Gas ID : 6 digit number
- Proration Schedule : list by well number, well type
  - Oil
  - Gas

7

**Wells are listed on the Proration Schedule by the unique combination of this numbering system: District No. + Lease No. (or Gas ID) + Well No.**

**The API No. is not a unique number in that sense. This allows the Proration Schedule to list dual/multiple completions for the same API No. such as producing and injecting in the same wellbore.**

## TERMS & DEFINITIONS

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- Proration Schedule Well Types (UIC) : determined by RRC staff based on permit & type of completion
  - Injection
  - Shut-In
  - Temporarily Abandoned
  - Brine Mining
  - Gas Storage Injection
  - Gas Storage Salt Formation
  - LPG Storage
  - Geothermal

## TERMS & DEFINITIONS

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- UIC : Underground Injection Control
- UIC Number : 9 digit number assigned to well
- H-1 Number : Project number
  - Fluid Injection Permit No. (W-2/G-1 Packet Data)
  - F- followed by 5 digits
- W-14 Number : Permit number
  - O&G Waste Disposal Permit No. (W-2/G-1 Packet Data)
  - 5 digits
- H-1 Date , W-14 Date (W-2/G-1 Packet Data)

## TERMS & DEFINITIONS



- H-1/H-1A Field Name
  - is correlative to injection/disposal formation
  - use deepest if more than one formation; or if the well is on the current schedule in one of the proposed formations, keep current Field Name
- W-14 Field Name
  - may be correlative by formation name more than 2 miles away, or correlative to the formation that is the source of disposal fluids

10

### **Definitions that refer to Injection / Disposal Permitting.**

**For “H-1/H-1A Field Name” the preferred method is to use the Field Name correlative to the deepest Formation if more than 1 Formation is permitted. An equally preferred method is to use the current Field Name under this scenario: injection / disposal is permitted in Formations “A”, “B”, and “C” in descending order; well is on current schedule in Field Name correlative to Formation “B”; well should stay in current Field Name thereby avoiding the paperwork for workover to “C”.**

**“W-14 Field Name” is chosen from Field Names in the area.**

**The guiding principle is that the Field Name must match on Injection / Disposal Permit, Drilling Permit (if required), and Completion Report.**

# REQUIREMENTS

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- W-1 Drilling Permit – refer to Statewide Rule (SWR) 5
  - (512) 463-6751
  - New Well
  - Deepening
  - Re-enter of a plugged well
  - Plug Back / Re-Completion in a Different Field
  
- W-15 Cementing Report – check with RRC Districts
  - New Well
  - Cement Squeeze / Block Squeeze (CS), Squeeze Perfs, Bridge Plug (CIBP), Plug Back
  - May relate to Injection/Disposal Permit Special Conditions

## REQUIREMENTS

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- W-12 Inclination Report – refer to SWR 11
  - New Well, unless Total Depth < 2000 feet and lease line > 150 feet
  - Re-entry of a plugged well requires a new survey if one was not already filed; exception for Enhanced Recovery
  - Deepening > 300 feet or distance to nearest lease line if < 300 feet
- Directional Survey
  - New Drill if the Wellbore Profile is Directional or Horizontal
  - New Drill if the Wellbore Profile is Vertical
    - and the W-12 violates 11(c)(1)(A)
  - Applicable to some Re-entry, or Deepening
  - Directional Surveys filed/uploaded by the responsible service company
  - RRC Engineering Unit & Support (512) 463-1126

## INJECTION/DISPOSAL PERMIT DETAIL

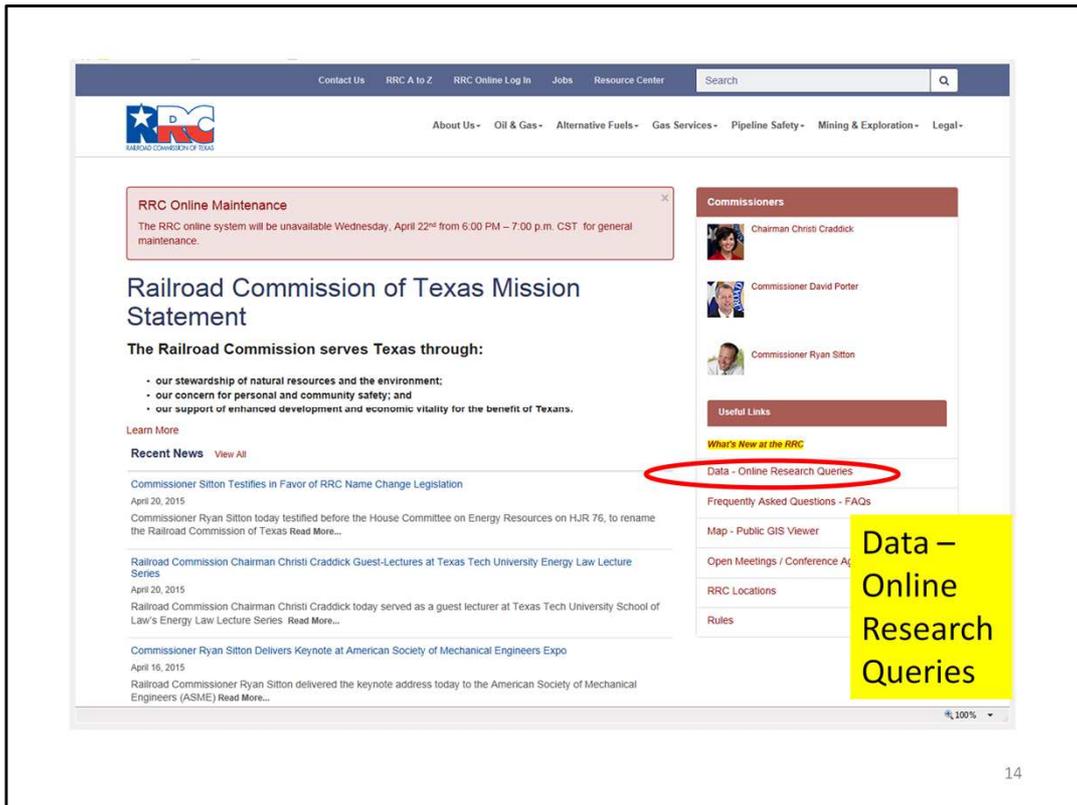
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- Base of Usable Quality Water (BUQW)
- Casing Record
- Injection Interval
- Tubing/Packer Depth
- Formation Name(s)
- Permit Special Conditions

13

**Here is a list of the important Injection/Disposal permit detail that is evaluated during the Completion review.**



The link to Online Research Queries is shown here as a quick link below the Commissioner's photos. It will also appear as a link on many of the webpages. So, I will proceed with a quick tour of the Data Queries.

**Online Research Queries**

The links in the boxes allow users to research oil & gas production, drilling permits, well records, gas utility and pipeline information, surface coal/ignite mining permit information and other related queries.

**Note:** *The online research queries are intended for use by individuals needing information from the Railroad Commission of Texas. The use of automated volumes of data can cause severe degradation of Railroad Commission of Texas information. If the query system detects that data is being retrieved using an automated process, the Railroad Commission of Texas will end the session for that user.*

**Requirements for Accessing Online Research Queries**

The Railroad Commission of Texas recommends accessing the online research queries using a broadband connection (Cable Modem, DSL, Fiber, Wireless, Satellite are common examples). A dial-up connection will not be desirable.

Adobe Acrobat Reader 9.5 or higher should be used AND one of the following browsers:

- Microsoft Internet Explorer 10 or higher
- Mozilla Firefox 10 or higher
- Google Chrome 20 or higher
- Apple Safari 5 or higher

**Oil & Gas**

Type of Query	Launch application
Completions Query	Launch application
Drilling Permit (W-1) Query	Launch application
Electronic Document Management System	Learn more / Launch application
Field Rules Query	Launch application

**Online Research Queries:**

- UIC permit detail
- W-1 drilling permit detail
- previous W-2's or G-1's
- search for previous additional forms such as W-12's, W-15's

The Online Research Queries webpage acts as a table of contents or a list of links. I am briefly pointing out a few examples.

# RRC WEBPAGE



## Oil & Gas

Type of Query		
Completions Query		<a href="#">Launch application</a>
Drilling Permit (W-1) Query		<a href="#">Launch application</a>
Electronic Document Management System	<a href="#">Learn more</a>	<a href="#">Launch application</a>
Field Rules Query		<a href="#">Launch application</a>
H-10 Annual Disposal/Injection Well Monitoring Report Query	<a href="#">Learn more</a>	<a href="#">Launch application</a>
Inactive Well Query		<a href="#">Launch application</a>
Inactive Well Aging Report Query	<a href="#">Learn more</a>	<a href="#">Launch application</a>
Injection/Disposal Permit Query	<a href="#">Learn more</a>	<a href="#">Launch application</a>
Maps - Public GIS Viewer	<a href="#">Learn more</a>	<a href="#">Launch application</a>
New Lease IDs Built Query	<a href="#">Learn more</a>	<a href="#">Launch application</a>
Oil & Gas Imaged Records Menu	<a href="#">Learn more</a>	<a href="#">Launch application</a>
Organization (P-5) Query	<a href="#">Learn more</a>	<a href="#">Launch application</a>
Orphan Well Query		<a href="#">Launch application</a>

150%

16

**“Injection/Disposal Permit Query” is part of the group of links including Proration Query. “Completions Query” can search by tracking number all the online completions that started in 2009; online login is not required. Also, for “Drilling Permit (W-1) Query” online login is not required. This allows Operators to view and print any online completion or drilling permit. “Oil & Gas Imaged Records Menu” is also called Neubus. Click on “Oil & Gas Imaged Records Menu”.**

# RRC WEBPAGE



Links to  
Neubus

[Home](#) / [About Us](#) / [Resource Center](#) / [Research](#) / [Online Research Queries](#) /

## Oil and Gas Imaged Records Query Menu

Type	Description
<a href="#">Oil &amp; Gas Well Records</a>	<ul style="list-style-type: none"><li>• Choose Profile: Oil and Gas Well Records</li><li>• Dates included: 1964 and forward</li><li>• <a href="#">Learn More</a></li><li>• NOTE: Since February 2011, all completion packets are filed online and may be viewed through the <a href="#">Oil &amp; Gas Completion Query</a>.</li></ul>
<a href="#">Dry Hole Files</a>	<ul style="list-style-type: none"><li>• Dates included: 2000 and forward. Older files for District 9 are being added as time permits.</li><li>• <a href="#">Learn More</a></li></ul>
<a href="#">District Office Well Records</a>	<ul style="list-style-type: none"><li>• Includes well completion and plugging records from the Oil and Gas District 9 (Wichita Falls) office that are older than 1980. Currently records from Knox, Montague, and Wichita counties have been imaged and are available.</li></ul>
<a href="#">Oil &amp; Gas Well Logs</a>	<ul style="list-style-type: none"><li>• Choose Profile: Well Logs (WL)</li><li>• Dates included: July 2004 and forward</li><li>• <a href="#">Monthly Well Log List</a></li></ul>

17

Here are some examples of how the Neubus records are divided into groups. Neubus is the system that manages the Oil & Gas Imaged Records. "Oil & Gas Well Records" contains completion records from the years before the Online System.

# RRC WEBPAGE



Skim Oil/Condensate Reports (Form P-18)	<ul style="list-style-type: none"> <li>Dates included: January 2013 and forward.</li> </ul>
Monthly Transportation and Storage Reports (Form T-1)	<ul style="list-style-type: none"> <li>Dates included: January 2013 and forward.</li> </ul>
Groundwater Protection Determination Letters	<ul style="list-style-type: none"> <li>Dates included: 2009 and forward. Letters for the previous month are added by the 15th of the current month.</li> <li>Note: Older files are being added as time permits.</li> <li>Letters are also known as Surface Casing or "Water Board" Letters.</li> <li><a href="#">Learn More</a></li> <li>Copies of Groundwater Protection Determination Letters not online for 2000 through 2008 may be obtained by contacting the <a href="#">Groundwater Advisory Unit</a>.</li> <li>Letters created prior to 2000 are available on microfilm in <a href="#">Central Records</a>.</li> </ul>
Disposal Permits (W-14)	<ul style="list-style-type: none"> <li>Dates included: Entire Form W-14 Record Series</li> <li>Note: New/Amended Disposal permits are added when issued.</li> </ul>
Injection/Disposal Permits (H-1/H-1A)	<ul style="list-style-type: none"> <li>Dates included: 2011 and forward.</li> <li>Note: Older files are being added as time permits. All H-1 permit files for RRC Districts 1 through 6E are now available online.</li> </ul>
Mechanical Integrity Tests (Form H-5)	<ul style="list-style-type: none"> <li>Dates included: 1985-1994</li> </ul>
Oil & Gas Hearing Files	<ul style="list-style-type: none"> <li>Dates included: Various</li> <li>NOTE: All closed hearing files received by Central Records since July 2011 are being imaged as they are received. Older files are being added as time permits. All hearings files for RRC Districts 1 and 2 are now available online.</li> </ul>

Links to Neabus, con't.

Click on a category such as "Groundwater Protection Determination Letters", "Disposal Permits (W-14)", or "Injection/Disposal Permits (H-1/H-1A)" to see the Neabus key search screen. Call for assistance to search this system.

## ONLINE COMPLETION OVERVIEW



- **Packet Data**
- Completion Data
- Complete Additional Forms
  - P-4, W-12, L-1
- Load Attachments
  - W-15, W-12, GAU Letter (formerly TCEQ ),  
Log Header, others e.g. SWR13 Exception Letter
- Submit
- Check for Messages

19

The Online Completion is arranged in these 5 steps to submit a new Packet, and I will go through an example of each step starting with Packet Data. Here, “Check for Messages” is part of step #6, updating a Packet. We at the RRC want the Operators and Agents to have success filing their packets, and to have the Packets approved on a timely basis.

**RRC ONLINE SYSTEM** Choose an Application **Go** **Log Out**

Home [General Help](#) [About](#)

Welcome to the RRC Online System

Beginning in early September 2013, RRC Online users will be able to file annual well tests (G-10/W-10) online or EDI.

**Main Application**

- [Account Administration](#)
- [Drilling Permits \(W-1\)](#)
- [RRC Online System](#)
- [Completions](#)

**Select Completions**

New password rules are now in effect for Internal RRC users:

Passwords will expire after 90 days.  
Three grace logins are allowed after password expiration.  
After a password is changed, it may not be changed again for 24 hours.  
A message will display above when your password is about to expire.

New passwords must meet the following requirements:

- 1) Have a minimum length of 8 characters.
- 2) Have at least one upper or lower case letter AND  
Have at least one numeric (0-9) OR special character (For example: !, \$, #, %) )

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20

**Here we are logged in to the Online System, and ready to do Completions.**

# FILING OPTIONS & MESSAGES



The screenshot displays the 'Oil & Gas Completions ONLINE SYSTEM' interface. The top navigation bar includes 'Completions Home', 'Completions Menu', 'P8', 'Internal Menu', and 'Help'. The main content area is titled 'Well Completions' and shows the 'Filing Operator: NOBLE ENERGY INC (611665)'. Under the 'Filing Completion Package' section, there are three links: 'File a New Completion Packet', 'Update Existing Completion Packet', and 'Select Filing Operator'. Below this is a 'My Messages' section with sub-tabs for 'Operator Messages' and 'Recent Notifications', showing 'No Messages'. Three yellow callout boxes with red arrows point to these links: 'File a New Completion Packet' points to the first link, 'Update Existing Completion Packet' points to the second link, and 'Check Messages for your User ID, or find all Messages for this Operator' points to the 'Operator Messages' tab.

21

The first example I will discuss is to update an Existing Completion Packet. Also, from this screen there are options for checking Messages. Messaging is how deficiencies with Completion packets are communicated back to the Operator or Agent, and how responses from the Operator or Agent are communicated back to RRC staff.

# UPDATE EXISTING PACKET



**for Packet Status: Submitted**  
- enter Tracking No., then Search

**for these types of Packet Status, click Edit button:**  
- Work In Progress  
- Pending Operator Update  
- Hard Copy

**View By: options**

**51 results** Page: 1 of 1 Page Size: View All

Tracking No.	Drilling Permit No.	API No.	District	Well Type	Completion Type	Well No.	Packet Status	Edit	Delete
101728	773552	38338543	7C	Active UIC	New Well	1D	Work in Progress	Edit	Delete
28197	709170	46137192	7C	Active UIC	New Well	5D	Work in Progress	Edit	Delete
76324		17300376	08	Active UIC	Re-entry	603	Work in Progress	Edit	Delete
7735			02	Producing	New Well	01H	Hard Copy	Edit	Delete
7736			02	Producing	New Well	01H	Hard Copy	Edit	Delete
105639	771258	12333348	02	Producing	New Well	06H	Pending Operator Update	Edit	Delete
105952	774971	32939043	08	Producing	New Well	2	Work in Progress	Edit	Delete

This slide is what you might see if there are numerous Packets pending for your Company. “View By” options allow all packets for this Filing Operator to be shown, or only packets submitted under your User ID. The Packet Status could be Work In Progress - Packets waiting to be Submitted by the Operator, Pending Operator Update - Packets that have been reviewed by RRC and found to have a deficiency, or Hard Copy. To work on one of these packets, click “Edit”. I want to clarify here the difference between Pending Operator Update and other updates. Suppose your packet has been submitted, reviewed, and found to have deficiencies and those deficiencies are communicated in a Message. The Online System distinguishes between the parts of the Packet that have been released for corrections or additional data. I will be explaining the parts of a Packet in the upcoming slides. They are the W-2 or G-1, Additional Forms, and Attachments. Pending Operator Update means that RRC has released the entire Packet for corrections. This is required to change Packet Data for example changing a Packet from Injection to Producing. Typically, only certain parts of the Packet are released for correction. In that case, you would have to enter the Tracking No. to search for and edit the Form or Attachment since the Packet is still classed as Submitted. The guiding principle here is that Packets are locked from edits in Submitted Status until specific parts are unlocked for corrections or additions.

# FILE A NEW COMPLETION PACKET



**RR ONLINE SYSTEM** Choose an Application Go Log Out

**Oil & Gas Completions**

Completions Home Completions Menu **Dr. Menu** Internal Menu Help

**Well Completion Package**

Filing Operator: NOBLE ENERGY INC (611665)

To create a new Completion Package enter a Drilling Permit number or an American Petroleum Institute (API) Number data entered.

Drilling Permit No.:

Or

API No.: 16531321

Filing Operator's Packets that have the status of **Work In Progress** or **Pending Operator Update**.  
If you wish to update any of the Packets listed below, click on the Completions Menu tab and select the **Update Existing Completion Packets** menu option.

0 results Page: 1 of 1 Page Size: View All

Tracking No.	Drilling Permit No.	API No.	District	Well Type	Completion Type	Well No.	Packet Status
--------------	---------------------	---------	----------	-----------	-----------------	----------	---------------

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Enter  
Drilling Permit No., or  
API No.

Click Search

Next, let's look at starting a New Completion Packet. Enter Drilling Permit No. or API No.

# FILE A NEW COMPLETION PACKET



**ORC ONLINE SYSTEM** Choose an Application Go Log Out

Oil & Gas Completions  
Completions Home Completions Menu **Menu** Internal Menu Help

Wells Found  
Filing Operator: NOBLE ENERGY INC (611665)

If the Well you wish to use for this Completion Packet is listed below, click the New Packet button and enter your information. If the Well is not listed, select the Return To Search button to apply a different search criteria.

1 results Page: 1 of 1 Page Size: View All

Drilling Permit /Issued	API No.	Lease Name	Field Name	District	Lease No./Gas ID	Well No.	
016752 / 01-20-1978	16531321	SOUTH ROBERTSON (SAN ANDRES) U.	ROBERTSON, N. (SAN ANDRES)	8A	67419	1115	<input type="button" value="New Packet"/>

❖ Multiple Field Names Allowed on Drilling Permit

New Packet

24

If the correct Field Name is found, then click “New Packet”.

## CHOOSE THE CORRECT DRILLING PERMIT



- Multiple Drilling Permits may be populated when searching with API
- Drilling Permit's (by Status Number) can have multiple field names
- Choosing the Correct Drilling Permit is very **Important!**

**PFC ONLINE SYSTEM** Choose an Application Go Log Out

**Oil & Gas Completions**

Completions Home Completions Menu FR Menu Internal Menu Help

**Wells Found**

Filing Operator: PFC OPERATING COMPANY LLC (631462)

If the Well you wish to use for this Completion Packet is listed below, click the New Packet button and enter your information. If the Well is not listed, select the Return To Search button to apply a different search criteria.

Return To Search

8 results Page: 1 of 1 Page Size: View All

Drilling Permit/Issued	API No.	Lease Name	Field Name	District	Lease No./Gas ID	Well No.	
532293 / 06-05-2003	43132333	BUNTON	WILDCAT	08		3	New Packet
532293 / 05-22-2003	43132333	BUNTON	WILDCAT	08		3	New Packet
396115 / 01-23-1992	43132333	BUNTON	WILDCAT	08		3	New Packet
396115 / 01-23-1992	43132333	RENDERBROOK CREEK (MISS) UNIT	RENDERBROOK CREEK (MISS)	08		363	New Packet
532293 / 06-05-2003	43132333	BUNTON	ACE OF SPADES (ELLENBURGER)	08		3	New Packet
739338 / 05-24-2012	43132333	RENDERBROOK CREEK (MISS) UNIT	WILDCAT	08		363	New Packet
739338 / 05-24-2012	43132333	RENDERBROOK CREEK (MISS) UNIT	ACE OF SPADES (ELLENBURGER)	08		363	New Packet
739338 / 05-24-2012	43132333	RENDERBROOK CREEK (MISS) UNIT	RENDERBROOK CREEK (MISS)	08		363	New Packet

Return To Search

Backlinks | PFC Online Home | PFC Home | Contact

25

Here is a slide that emphasizes choosing the correct Drilling Permit. The Drilling Permit will auto-populate parts of the Packet. Match Field Name and Issued Date to select the correct Drilling Permit. This illustration shows the correct Field Name in 2 rows, so the recent Issued Date marks the correct one. It usually isn't that complicated.

# PACKET DATA: INITIAL PACKET DESCRIPTION



**Recommended sequence**

- Step 1 - Packet Data
- Step 2 - Completion Data
- Step 3 - Complete Additional Forms
- Step 4 - Load Attachments
- Step 5 - Submit

**Definitions for Purpose of Filing**

**Purpose of Filing**  
**Type of Completion**  
**Well Type**  
**Wellbore Profile**  
**Type of Completion Packet**

I am going to show a series of slides on “Packet Data”. There is a handy guide on the upper right that follows the recommended sequence of steps that I showed earlier as the Online Completion Overview. I am going to go through each of these items under “Initial Packet Description”.

# INITIAL PACKET DESCRIPTION



Create Packet    Return To Results

**Initial Packet Description**

Purpose Of Filing: -Select One-  
Type Of Completion: -Select One-  
Well Type: Initial Potential  
Wellbore Profile: Retest  
Type of Completion Packet: Reclass Oil to Gas  
Reclass Gas to Oil  
Reclass Injection to Producing  
Reclass Producing to Injection ★  
Well Record Only ★

Horizon

27

**“Purpose of Filing” is typically one of the 2 marked here. Many Injection/Disposal Packets are marked as Initial Potential for New Drills. That is also OK. It is informational only. It is also OK to think of Initial Potential as for Producing packets only.**

# INITIAL PACKET DESCRIPTION



Create Packet    Return To Results

**Initial Packet Description**

Purpose Of Filing: -Select One-

Type Of Completion: -Select One-

Well Type: -Select One-

Wellbore Profile: New Well  
Deepening  
Plug Back  
Sidetrack

Type of Completion Packet: Reentry  
Other

Horizon

28

**“Type of Completion” could be any one of these for UIC wells. Usually a new Drilling Permit is required for all except “Other”.**

# INITIAL PACKET DESCRIPTION



Create Packet    Return To Results

**Initial Packet Description**

Purpose Of Filing: -Select One-

Type Of Completion: -Select One-

Well Type: -Select One-

Wellbore Profile: -Select One-

Type of Completion Packet: Active UIC ★  
Shut-In UIC ★

Producing  
Shut-In Producer

(For WSW, Water Supply Wells)

“Well Type” is shown here. I will have more to say about “Active UIC” vs. “Shut-In UIC” later in the presentation.

# INITIAL PACKET DESCRIPTION



Wellbore Profile is auto-populated from Drilling Permit, W-1

Create Packet

Return To Results

## Initial Packet Description

Purpose Of Filing: -Select One-

Type Of Completion: -Select One-

Well Type: -Select One-

Wellbore Profile: VERTICAL

Horizontal Wellbore Profile Type: -Select One-

Type of Completion Packet: -Select One-

-Select One-  
Stacked Lateral

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Done

Internet

30

If "Wellbore Profile" is Horizontal, then this row is activated.

# INITIAL PACKET DESCRIPTION



**Initial Packet Description**

Purpose Of Filing:

Type Of Completion:

Well Type:

Wellbore Profile: VERTICAL Horizon

**Type of Completion Packet:**

- Select One-
- Gas / G-1
- Oil / W-2

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31

**Injection/Disposal wells are classed as Gas or Oil based on the Field Name.**

**ONLINE SYSTEM** Oil & Gas Completions

Completions Home Completions Menu Help/Info Internal News Log Out

Packet Data  
Filing Operator NOBLE ENERGY INC (611665)

**Packet Summary Data**      Submitted: Online  
 Tracking No.:      Status: Work In Progress (unknown)

Operator Name: NOBLE ENERGY INC (611665)  
 Field Name: ROBERTSON, N. (SAN ANDRES)      Completion or Recombination Date:  
 Lease Name: SOUTH ROBERTSON (SAN ANDRES) U.      Purpose of Filing:  
 FOC Operator No.: 6A  
 FOC Date (2 of 2) or Lease No.: 67418      County: GAINES  
 Well No.: 1218      Drilling Permit No.: 016762  
 API No.: 169-93321      Wellbore Profile: VERTICAL

**Tracking No.: blank**

INTENT/PURPOSE: This filing is for a well, which is not an existing well and will be assigned a SOC ID/Case number if it being added to an existing oil lease.

NOTES: Processing wells that are reworking. When simply reworking your well and not making any proposed changes to the well, such as changes to perforations, or schedule of testing intervals, etc., list your test as a W-1 or W-2. Do not use a W-3 or W-4 completion form.

RECORD: Wells being reclassified as OIS or SW wells.  
 Releasing well an existing being reclassified to a SOC well.  
 Releasing SOC well being reclassified to a Production or Shut-in well.  
 Examples of SOC wells are: Drilling, Storage, and Blow Down.

Well Record Only may apply to one of the following:

- New Drills or Completions with no test
- Shut-in Reopening resulting in a pipeline connection
- Change of perforations (new zone or test interval)
- Well number change
- Standard Rule 57 (unrepresentative zone)
- Releaser work - add tubing, expanded casing, set packer, or any other work procedure that changes the configuration of the well.

Click Create Packet tab

Purpose of Filing  
 Type of Completion  
 Well Type  
 Wellbore Profile  
 Type of Completion Packet

Initial Packet Description

Purpose of Filing: Release Producing to Production  
 Type of Completion: Other  
 Well Type: Active SOC  
 Wellbore Profile: VERTICAL  
 Type of Completion Packet: SW / W-1

32

Now we are done with "Initial Packet Description".

**Tracking No. is assigned**

**Change Packet Description option**

**Save**

**Fill in Well Data, UIC Permit No. & Date**

**Recompletion/Reclass Table**

**Packet Summary Data**

Tracking No.: 20260  
 Operator Name: NORD ENERGY INC (S11645)  
 Packet Name: ROBERTSON, N. (SAN ANTONIO)  
 Lease Name: SOUTH ROBERTSON (SAN ANTONIO)  
 RAC District No.: BA  
 RAC Dist ID or Lease No.: 67419  
 Well No.: 1148  
 AIC No.: 149-14321  
 Packet No.: 7731905

**Well Data**

Well No.: 0258  
 Well Latitude:   
 Well Longitude:   
 Well Type:   
 Well Name: ROBERTSON, N. (SAN ANTONIO)  
 Lease Name: SOUTH ROBERTSON (SAN ANTONIO)  
 County of Well State: OAHIES  
 RAC District No.: BA  
 RAC Dist ID or Lease No.: 67419  
 Distance and Direction to Nearest Well in the County:   
 Completion or Acquisition Date: 01/15/1999  
 Type of BRAC or Other Log Run:   
 Electric Log Other Description:   
 Former Operator Name if Reservoir Map:   
 Change with the last 60 days:   
 Drill, Plug Back, or Casing Permit No.: 02870  
 Rule 27 Case No.:   
 Well Description Permit No.:   
 Surface Casing Permit No.:   
 Other Description:   
 Location Number: PLS SURVEY  
 Bureau Section: 02

Row	Field & Reservoir	Lease No.	Well Type	Well No.	District Code	Field No.
1	<input type="text"/>	<input type="text"/>	-Select One	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	-Select One	<input type="text"/>	<input type="text"/>	<input type="text"/>

This shows that we can “Change Packet Description” before continuing, if needed. Continue filling in “Well Data”. The next few slides are some blow-ups from this screen.

# PACKET DATA



---

**Well Data**

Field Name: SPRABERRY (TREND AREA) Well No.: 5D

Lease Name: UNIVERSITY 3-1 Well Latitude:

County of Well Site: UPTON Well Longitude:

RRC District No.: 7C Lat/Long Type: [-Select One-]

RRC Gas ID or Oil Lease No.:   Lat/Long Other:

This well is located:  miles in a:  direction from: , which is the nearest town in the county.

Date of first production after rig released:  MM/DD/YYYY - If the well is not completed, use the date the rig was released.

Spud Date:  MM/DD/YYYY

Type of Electric or other Log Run: [-Select One-]

Electric Log Other Description:

Former Operator name if operator has changed within the last 60 days:

Drill, Plug Back, or Deepen Permit No.: 709170

Date: 01/28/2011

Rule 37 Case No.:  Date:  MM/DD/YYYY

Fluid Injection Permit No.: F-  Date:  MM/DD/YYYY

O&G Waste Disposal Permit No.:  Date:  MM/DD/YYYY

Other Permit No.:  Date:  MM/DD/YYYY

Other Description:

Location/Survey: UL Survey Block: 3

Survey Section: 1 Survey Abstract: U1

Use the Search button to auto populate data in the Recompletion/Reclass table.

**If recompletion or reclass, give former field (with reservoir) & gas ID or oil lease No.:**

Row	Field & Reservoir	Lease No.	Well Type	Well No.	District Code	Field No.	Prior Service Type	
1	SPRABERRY (TREND AREA)	17399	Oil Well	5D	7C	85279200	[-Select One-]	<input type="button" value="Clear"/>
2	<input type="text"/>	<input type="text"/>	[-Select One-]	<input type="text"/>	<input type="text"/>	<input type="text"/>	[-Select One-]	<input type="button" value="Clear"/>

Search for Field & Reservoir

Prior Service Type

The item “Date of first production after rig released” is the Completion/Recompletion Date that is appropriate for this packet. Pick the most recent date that is representative of this Completion. Enter UIC Permit No. & Date, labeled here “Fluid Injection Permit No.,” and the “O&G Waste Disposal Permit No.” Only 1 at a time applies. You should recognize these as the H-1 or W-14 Permit number, respectively and most recent Permit Date.

For UIC purposes a “Recompletion” or workover is a change of Field Name which requires a new Drilling Permit. “Reclass” is changing from Producing to Injection, but the Field Name is not changing.

If the Packet is a “Recompletion” or “Reclass”, then this table applies. I am going to zoom in to this area of the screen. Suppose I clicked “Clear” at the end of the row, then clicked “Search for Field & Reservoir”.

# SEARCH FOR FIELD & RESERVOIR



Online system found just 1 result

Back

1 results Page: 1 of 1 Page Size: View All

Drilling Permit No.	Lease Name	Field Name	Field No.	Lease No./Gas ID	Well No.	District	
709170	UNIVERSITY "3-1"	SPRABERRY (TREND AREA)	85279200	17399	5D	7C	Select

Back

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**Select**

1 result is found in this case that is the current Proration Schedule of the subject well from the RRC database. Click "Select".

Online system will find all completions for this well.

# PACKET DATA



---

**Well Data**

Field Name: SPRABERRY (TREND AREA) Well No.: 5D

Lease Name: UNIVERSITY 3-1" Well Latitude:

County of Well Site: UPTON Well Longitude:

RRC District No.: 7C Lat/Long Type: -Select One-

RRC Gas ID or Oil Lease No.:   Lat/Long Other:

This well is located:  miles in a:  direction from: , which is the nearest town in the county.

Date of first production after rig released:  MM/DD/YYYY - If the well is not completed, use the date the rig was released.

Spud Date:  MM/DD/YYYY

Type of Electric or other Log Run: -Select One-

Electric Log Other Description:

Former Operator name if operator has changed within the last 60 days:

Drill, Plug Back, or Deepen Permit No.: 709170

Rule 37 Case No.:  Date: 01/28/2011

Fluid Injection Permit No.: F-  Date:  MM/DD/YYYY

O&G Waste Disposal Permit No.:  Date:  MM/DD/YYYY

Other Permit No.:  Date:  MM/DD/YYYY

Other Description:

Location/Survey: UL Survey Block:

Survey Section: 1 Survey Abstract: U1

**Use the Search button to auto populate data in the Recompletion/Reclass table.**

Row	Field & Reservoir	Lease No.	Well Type	Well No.	District Code	Field No.	Prior Service Type	
1	SPRABERRY (TREND AREA)	17399	Oil Well	5D	7C	85279200	-Select One-	<input type="button" value="Clear"/>
2			-Select One-				-Select One-	<input type="button" value="Clear"/>

Search for Field & Reservoir

Prior Service Type

Now the table is auto-populated from the RRC database. Just one more thing, you must select "Prior Service Type" manually.

## ONLINE COMPLETION OVERVIEW

---



- Packet Data
- **Completion Data**
- Complete Additional Forms
  - P-4, W-12, L-1
- Load Attachments
  - W-15, W-12, GAU Letter (formerly TCEQ ),  
Log Header, others e.g. SWR13 Exception Letter
- Submit
- Check for Messages

# W-2/G-1 PAGE 1



Select W-2 to continue

Save, Select Page # to continue

Page 1: Potential Test Data Not Applicable to UIC

38

Select “W-2” or “G-1” from the group of tabs near the top. “Completion or W-2 Data” is arranged on 6 pages. The print function on Completions Query combines Packet Data with Completion Data to make a printed version of the completion report.

“Potential Test Data” is blank for injection/disposal wells.

If you have “Potential Test Data” , then file the Completion Packet as Producing. Then file a follow-up Packet with a new Tracking No. to Reclass from Producing to Injection. That way, any “Potential Test Data” is captured in the system.

# W-2/G-1 PAGE 2



System responds with red text warnings if critical data is missing on this page.

Save

Fill In Well Data

39

On Page 2 of the W-2 or G-1 I am emphasizing that the Online System will prompt with red-text warnings if critical data is missing on this page. That check is for the current page only. Likewise for pages 3-5. When we get to Page 6, the last page, the system will check all 6 pages.

# W-2/G-1 PAGE 3



Refresh 1 2 Page 3 4 5 6 Save Edit

**Data on Well Completion and Log II**

GAU Groundwater Protection Determination Depth:

GAU Groundwater Protection Determination Date:  MM/DD/YYYY

For new drill or re-entry, surface casing depth determined by:

GAU Groundwater Protection Determination

SWR 13 Exception Depth:

Was directional survey made other than Inclination(Form W-12)?:  No  Yes

Rotation Time Within Surface Casing:  (Hours)

Is Cementing Affidavit Attached (W-15)?:  No  Yes

Is Well multiple completion?:  No  Yes

**If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.:**

Row	Field & Reservoir	Lease Number	Well Type	Well No.	
1	<input type="text"/>	<input type="text"/>	-Select One-	<input type="text"/>	Clear
2	<input type="text"/>	<input type="text"/>	-Select One-	<input type="text"/>	Clear
3	<input type="text"/>	<input type="text"/>	-Select One-	<input type="text"/>	Clear

Add Row Search for Field & Reservoir

Refresh 1 2 Page 3 4 5 6 Save Edit

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% 100%

GAU Depth

SWR 13 Depth

Attach letters

Attach W-15's

On Page 3 of the W-2 or G-1 there are data fields regarding "GAU Groundwater Protection Determination", and "SWR 13 Exception". For "new drill or re-entry" select appropriate checkbox.

# W-2/G-1 PAGE 4



Refresh 1 2 3 Page 4 5 6 Save Edit

The operator is responsible for ensuring that the slurry volume, cement sacks, and casing information entered on this form matches the information reported on the corresponding Form W-15.

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement	Top of Cement Determined By
1	-Select One-										-Select One- Clear
2	-Select One-										-Select One- Clear
3	-Select One-										-Select One- Clear

Add Row

RAC GAU recommended base of usable quality groundwater (BUQW): \_\_\_\_\_ feet

Was cement circulated to ground surface (or bottom of cellar) outside SURFACE CASING?  No  Yes

Remarks: \_\_\_\_\_

**Type of Casing (pull-down)**

- Conductor
- Surface
- Intermediate
- Conventional Production
- Tapered Production
- Other

**Top of Cement Determined By (pull-down)**

- Calculation
- Temperature Survey
- Cement Evaluation Log
- Circulated

On Page 4 of the W-2 or G-1 is the "Casing Record". The "Type of Casing" pull-down menu is shown on the lower part of the slide. The 2<sup>nd</sup> pull-down menu is "Top of Cement Determined By". If the Packet was submitted in 2013, then it is fine as is until the Completion Form is released for edits or corrections to any of the 6 pages. Then, the Online System will prompt for these pull-down selections to be filled in before Re-Certifying the Form W-2 or G-1.

## W-2/G-1 PAGE 4 CASING RECORD

---



Important things to check

- Only Multi-Stage Tool & Shoe Depth may be blank
- Cement Amount(sacks) and Slurry Volume (cu. Ft.) must match on W-15's
- Top of Cement washout factor 20% (30% along Gulf Coast)
- Check SWR 13 (a) (4) (C),(D): formations/zones isolated by cement

42

**On Page 4 of the W-2 or G-1 is the "Casing Record". Shown are important details.**

## W-2/G-1 PAGE 4 LINER AND TUBING RECORD



Liner Record										
Row	Liner Size (inches & fractions)	Hole Size (inches & fractions)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement	Top of Cement Determined By	
1									--Select One--	Clear
2									--Select One--	Clear
3									--Select One--	Clear
Add Row										

Tubing Record					
Row	Tubing Size (inches & fractions)	Depth Set (ft.)	Packer Depth (ft.)	Packer Type	
1					Clear
2					Clear
3					Clear
Add Row					

Does this well currently have tubing set?  No  Yes  
If NO, Explain in Remarks.

Remarks:

SWR 13 Exception for Tubing Record? (Attach approval)

Refresh 1 2 3 Page 4 5 6

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90%

### Active UIC:

Tubing & Packer Set  
Possible exceptions

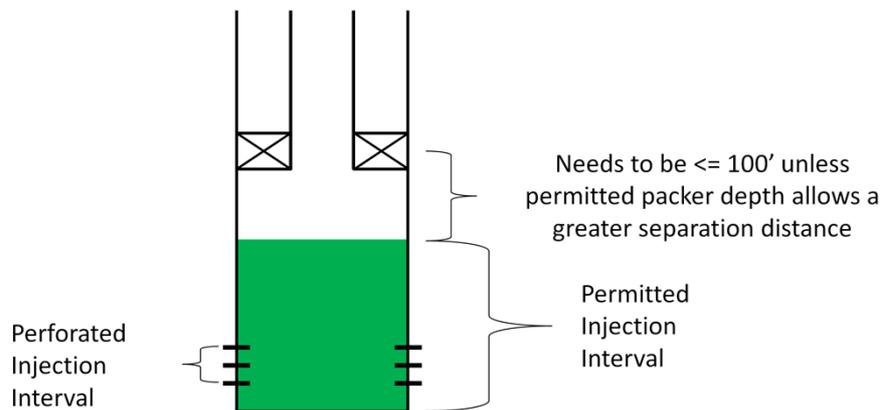
- Brine mining
- Hydrocarbon storage
- Permit exception

Continuing on Page 4 are the "Liner Record", "Tubing Record", and "Remarks". I am showing that Well Type Active UIC needs Tubing and Packer set. So, Well Type Shut-In UIC could have no "Packer Depth" entered.

## Perforations and Packer Depth



- Insure Packer, Perforations and Plug Back depth all agree



44

Here I will give an example that ties Page 4 to Page 5 of the W-2 or G-1. Page 4 contains the Packer data & Page 5 will contain the Perforated Injection Interval data. Here is an illustration of a typical well construction with the Packer set within 100 feet of the top of the Permitted Injection Interval. It is common for Operators to use the lower part of a Permitted Interval in the early life of a well, then move up-hole later.

# Example Permit



- Permitted Interval: 5577-6468'
- Actual Packer Depth: 5800'

BARRY T. SMITHERMAN, CHAIRMAN  
 DAVID PORTER, COMMISSIONER  
 CHRISTI CRADDICK, COMMISSIONER

GE. BUANO, P.E.  
 DIRECTOR, OIL AND GAS DIVISION  
 DOUG O. JOHNSON, P.E.  
 ASSISTANT DIRECTOR, TECHNICAL PERMITTING

RAILROAD COMMISSION OF TEXAS  
 OIL AND GAS DIVISION  
 PERMIT TO INJECT FLUID INTO A RESERVOIR PRODUCTIVE OF OIL AND GAS  
 PROJECT NO. F-14660, COMMERCIAL AMENDMENT

[REDACTED]

Authority is granted to inject into the well identified herein in accordance with Statewide Rule 46 of the Railroad Commission of Texas and based on the information contained in the application (Forms H-1 and H-1A) dated May 29, 2013 for the permitted interval of the Spraberry formation and subject to the following terms and special conditions.

TEXACO (04192) LEASE  
 SPRABERRY (TRENDAREA) FIELD  
 REAGAN COUNTY, DISTRICT 7C

WELL IDENTIFICATION AND PERMIT PARAMETERS									
Well No.	API No.	UIC Number	Permitted Fluids	Top Interval (feet)	Bottom Interval (feet)	Maximum Liquid Daily Injection Volume (GBL/day)	Maximum Gas Daily Injection Volume (MCF/day)	Maximum Surface Injection Pressure for Liquid (PSIG)	Maximum Surface Injection Pressure for Gas (PSIG)
3	38332419	000098363	Salt Water	5577	6468	15000	N/A	2750	N/A

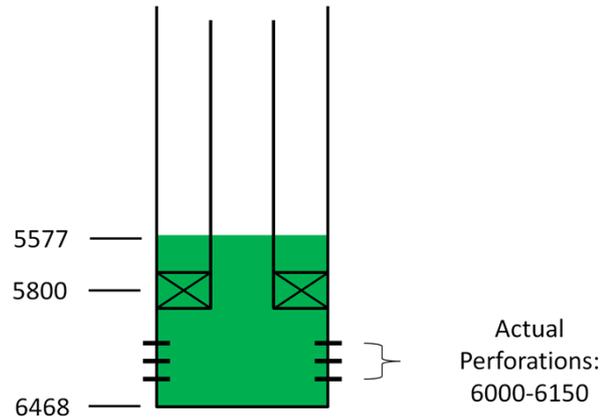
45

This slide shows that the Actual Packer Depth of 5800' from a completion report is below the Permitted Top Interval of 5577' which is allowed.

## Example of Inaccurate Reporting



- If the permitted interval, 5577' – 6468', is listed on the completion report, page 5, instead of the perforated interval, there is an obvious discrepancy.



46

The illustration shows a reporting error where the Packer appears to be deeper than the “Perforated Interval” which it cannot be. The reporting error is to state the Perforated Interval top at 5577’.

# W-2/G-1 PAGE 5 INJECTION INTERVAL



Refresh 1 2 3 4 Page 5 6 Save Edit

**Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole**

**Note:** From and To are for Measured Depth for Horizontals.

Is this an unperforated cased-hole completion?  No  Yes **Can be "Yes" if New Drill Shut-In UIC**

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole	
1	<input type="text"/>	<input type="text"/>	-Select One-	-Select One-	<input type="checkbox"/>	Clear
2	<input type="text"/>	<input type="text"/>	-Select One-	-Select One-	<input type="checkbox"/>	Clear
3	<input type="text"/>	<input type="text"/>	-Select One-	-Select One-	<input type="checkbox"/>	Clear

Add Row **Injection/Disposal Interval is within Permitted Interval**

Remarks:

This table is required for Well Type: **Active UIC**

On Page 5 of the W-2 or G-1 the "Injection/Disposal Interval" is entered. This data is required for Well Type Active UIC.

"Open Hole" is allowed.

This data can be left blank for Well Type Shut-In UIC. Also, this question is only answered "Yes" for Shut-In UIC, in the case of a new drill with un-perforated casing.

# W-2/G-1 PAGE 5



ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="-Select One-"/>	<input type="button" value="Clear"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="-Select One-"/>	<input type="button" value="Clear"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="-Select One-"/>	<input type="button" value="Clear"/>

Remarks:

List all Work Chronologically  
Attach Form W-15 for new CIBP,  
Cement Squeeze, Squeeze Perfs,  
etc.

- Process (pull-down)**  
Acid  
Fracture  
Cement Squeeze  
Cast Iron Bridge Plug  
Retainer  
Other

Continuing on Page 5 of the W-2 or G-1 is the "Acid, Fracture, Cement Squeeze, ...Etc." table. The pull-down menu for "Process" is shown here. This table is important for showing compliance with UIC Permit Special Conditions. Examples of Special Conditions are Cement Squeeze and Cast Iron Bridge Plug.

Make an entry for new perforations if different from an existing completion.

## W-2/G-1 PAGE 5 FORMATION RECORD



**FORMATION RECORD** ( List depths of Principal Geological Markers and Formation Tops, including, but not limited to, all permitted Disposal/Injection formations within ¼ mile of the wellbore, Productive Zones, Potential Flow Zones, and Corrosive Formation Fluid Zones. )

Row	Principle Markers and Formation Tops	Encountered	Depth -TVD (feet)	Depth - MD (feet)	Isolated	Remarks
1	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/> <input type="button" value="Clear"/>
2	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/> <input type="button" value="Clear"/>
3	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/> <input type="button" value="Clear"/>

**Data on Well Completion and Log I**

Remarks:

Provide at least 3 Formation Tops if Spud Date before 1/1/2014  
 Complete the Formation Record if Spud Date on/after 1/1/2014

49

Continuing on Page 5 are “Formation Record” and “Remarks” sections. For new drills after January, 2014, this table is pre-populated with Formation Names.

## W-2/G-1 PAGE 5 FORMATION RECORD (con't.)



### \* When to mark "encountered" in the formation record section?

The "encountered" checkbox must be marked if the formation/zone was penetrated by this wellbore.

If "encountered" is marked, the operator must enter a depth.

If the formation/zone was penetrated but not logged, the operator is expected to give a reasonable estimate based on existing available information. Please specify in remarks if the depth is an estimate.

If "encountered" is not marked, the operator must explain in remarks as to why the formation/zone was not encountered (e.g. pinched-out, well is not deep enough, etc.).

### \* When to mark "isolated" in the formation record section?

"Isolated" means that the formation/zone has been isolated by cemented casing pursuant to Statewide Rule 13(a)(4)(C), (b)(2)(A), and (b)(3)(B).

If the formation/zone was encountered by the wellbore, the operator must indicate whether that formation/zone was isolated by cemented casing pursuant to these requirements of Statewide Rule 13.

If the formation/zone is part of the completion interval, and is adequately confined by cemented casing, do mark isolated.

If the formation/zone was not encountered, the "isolated" checkbox will not be applicable.

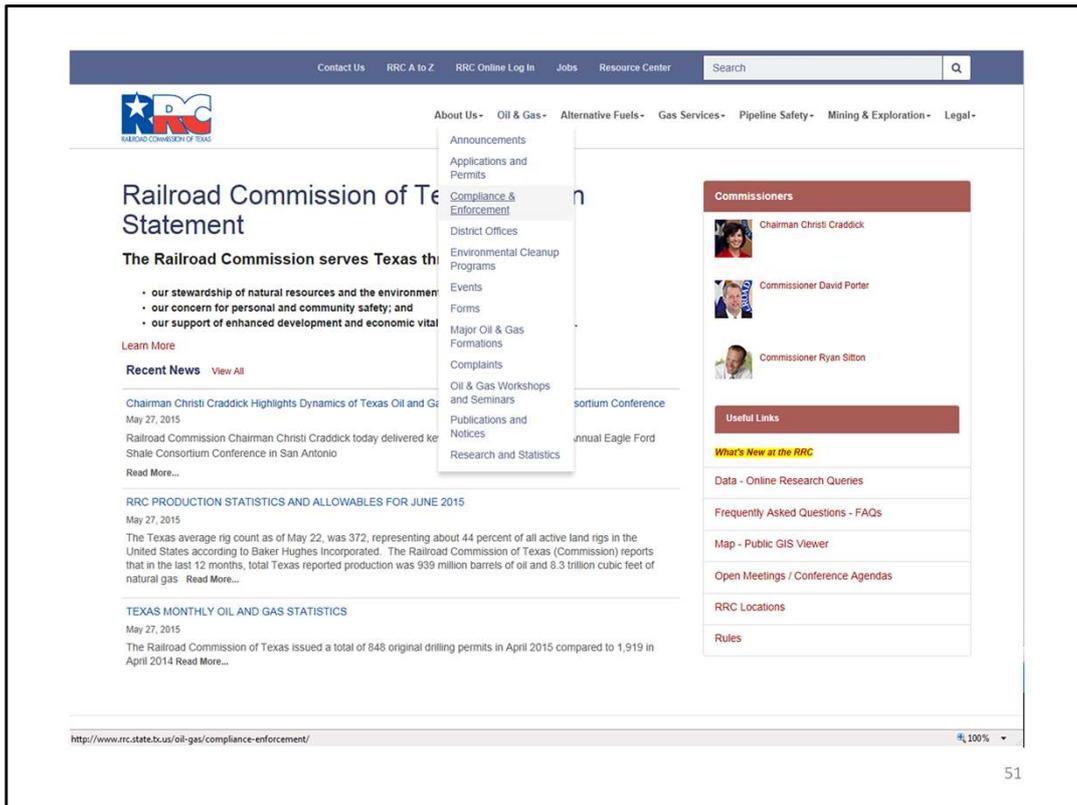
If the formation/zone was encountered but is not isolated by cemented casing, do not mark isolated. In this case, the operator must explain in remarks as to why the formation/zone was not isolated.

Refresh 1 2 3 4 Page 5 6 Save Edit

Guidelines for marking "Encountered, Isolated, Remarks" for wells spudded on/after 1/1/2014 by SWR 13

50

**A thorough explanation of the terms "Encountered" & "Isolated" is shown on the screen in the small print. I will summarize it. Provide a Depth for each Formation Top Encountered based on the Total Depth of the well. You may give approximate depths. Use the "Remarks" column by row if the Formation Top was not "Encountered". Examples of "Remarks" are "pinched-out" or "well is not deep enough". "Isolated" means there is cemented casing at that formation/zone depth pursuant to SWR 13. If the formation/zone is part of the completion interval, and is adequately confined by cemented casing, then mark "Isolated". If "Encountered" is checked, but "Isolated" is not checked, then "Remarks" for that row must be filled in.**



**I am making a detour back to the webpage to show a reference to “Geologic Formation Tops”.**

**From the homepage, use the “Oil & Gas” pull-down menu, then select “Compliance & Enforcement”.**



### Compliance & Enforcement

This section provides a listing of the information available online concerning Compliance and Enforcement with the Railroad Commission's Oil & Gas Division.

Blowouts and Well Control Problems

Crude Oil, Gas Well Liquids or Associated Products (H-8) Loss Reports

Enforcement Activities

H-15 Program - Testing of Older Inactive Wells

HB 2259/HB 3134 - Inactive Well Requirements

[Revised Statewide Rule 13 - Casing, Cementing, Drilling, Well Control, and Completion Requirements](#)

Severance Reconnect Process

#### Additional Information

Below is a link to the current Oil & Gas Statewide Rules (16 Texas Administrative Code Chapter 3) published on the Texas Secretary of State's website

[Current Rules](#)

#### Commissioners



Chairman Christi Craddock



Commissioner David Porter



Commissioner Ryan Sifton

#### Audiences

Consumers

Land & Mineral Owners

Media & Press

#### Research

Maps - Public GIS Viewers

Data - Online Research Queries

Forms

#### General

Upcoming Events

Announcements

What We Do

RRC Locations

Here is a link to “Revised Statewide Rule 13 – Casing, Cementing, Drilling ...”.

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## Revised Statewide Rule 13 - Casing, Cementing, Drilling, Well Control, and Completion Requirements

For more information:

- [Summary of Amendments and Revisions to Rule 13](#)
- [16 Texas Administrative Code §3.13 \(Statewide Rule 13\) \(Full text\)](#)

**Statewide Rule 13-Geologic Formation Information**

The weblinks below connect to geologic formation information provided as a guideline for assistance with compliance of casing cement depth during well completions. This data is categorized first by Commission District, then on a spreadsheet with tabs for each county within that District. The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" listed is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. Please review the "General Information" tab (the first tab of each District's sheet) for additional information.

**All Statewide Rule 13 Formations are listed in Excel Format [↗](#)**

<a href="#">District 1</a>	<a href="#">District 2</a>	<a href="#">District 3</a>	<a href="#">District 4</a>	<a href="#">District 5</a>	<a href="#">District 6 &amp; 6E</a>
<a href="#">District 7B</a>	<a href="#">District 7C</a>	<a href="#">District 8</a>	<a href="#">District 8A</a>	<a href="#">District 9</a>	<a href="#">District 10</a>

[All District Complete listing - compressed zip file](#)  
 Last Updated: 1/27/2015 5:10:52 PM

53

**The group of links to Excel spreadsheets are found here by Oil & Gas District.**

**Inside a spreadsheet, there are worksheets by County.**

# EXAMPLE COUNTY FORMATION TOPS



Formation	Shallow Top	Deep Top	Remarks
CATAHOULA	2,350	4,500	
FRIO	2,600	5,790	disposal
VICKSBURG	3,040	3,250	
YEGUA	5,500	6,820	disposal
WILCOX	6,490	16,800	disposal
EAGLE FORD	10,100	13,500	H2S
EDWARDS	13,610	17,430	H2S

Refer to 16 TAC §3.13(a)(4) Casing and Cementing

54

Here is an example for Lavaca County in District 02.

Each Formation Top is shown as a likely range of depths across the County. Remarks indicate what type of zone it is.

Check for actual permitted injection intervals within  $\frac{1}{4}$  mile.

# W-2/G-1 PAGE 6



**Red text warnings if critical data is missing on W-2/G-1.**

Packet Summary Data	Submitted: Hard Copy
Tracking No: 20250	Status: Work in Progress
Operator Name: NOBLE ENERGY INC (411665)	Type of Completion: Other
Field Name: ROBERTSON, N. (SAN ANTONIO)	Completion or Recombination Date: 11/18/1999
Lease Name: SOUTH ROBERTSON (SAN ANTONIO)	Purpose of Filing: Work Record Only
FRC District No.: BA	Well Type: Active UIC
FRC Site ID or Oil Lease No.: 67419	County: GALVES
Well No.: 1115	Drilling Permit No.: 016752
API No.: 149-31211	Wellbore Profile: VERTICAL
Fracture No.: 37319600	

Are the producing intervals of this well associated with a non-exempt hydrogen sulfide (H<sub>2</sub>S) zone?  No  Yes

Is this completion being down-hole commingled with SWR 202?  No  Yes

If the approval SWR 10 is pending, place a remark on page 5 indicating the submitted date of the SWR 10 application.

**Certify (or Re-certify)**

I declare under penalties prescribed in Sec. 81.145, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or approved and directed the report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

I accept:  No  Yes

**Electronic Signature**

Back to Page 6 of the W-2 or G-1. Click “Certify” to finalize the W-2 or G-1. The Online System will give a red-text warning if critical data is missing on any of Pages 1-6.

## ONLINE COMPLETION OVERVIEW

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- Packet Data
- Completion Data
- **Complete Additional Forms**
  - P-4, W-12, L-1
- Load Attachments
  - W-15, W-12, GAU Letter (formerly TCEQ ),  
Log Header, others e.g. SWR13 Exception Letter
- Submit
- Check for Messages

# COMPLETE ADDITIONAL FORMS



**Determine All Required Forms**

**Additional Electronic Forms**

**Attachments**

**Select P-4 Certificate of Compliance and Transportation Authority by clicking here**

57

Now we are ready to “Complete Additional Forms”. The idea here is to determine all required forms based on the type of Completion. Some of that determination is automated based on “Packet Summary Data”. The 1<sup>st</sup> example is Form P-4.

# ADDITIONAL FORM: P-4



**RRC ONLINE SYSTEM**  
Oil & Gas Completions

Completions Home | Completions Menu | All Data | Submit Data | Log Out

Process Data | Complete Additional Forms | Print Annotations | Messages | Filters | History | Annotations

### P-4 Certificate of Compliance and Transportation Authority

**Market Summary Data**  
 Tracking No.: 20209      Status: Work In Progress  
 Operator Name: NOBLE ENERGY INC (611666)      Type Of Completion: Other  
 Field Name: ROBERTSON, N. (SAN ANDRES)      Completion Date: 11/15/1999  
 Lease Name: SOUTH ROBERTSON (SAN ANDRES)      Completion Date: Well Record Only  
 RRC District No.: BA      Well Type: Active UIC  
 RRC Gas ID or Oil Lease No.:      County: GAINES  
 Well No.: 1118      Drilling Permit No.: 028732  
 API No.: 169-91321      Wellbore Profile: VERTICAL  
 Field No.: 77318900

**Well Information**  
 Is this well temporarily abandoned?  No  Yes  
 Is this an orphaned well (no completions)?  No  Yes  
 Is this a service well?  No  Yes

**Authorized GAS WELL or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s)**

Row	Gatherer	Purchaser	Name of GAS WELL or CASINGHEAD GAS Gatherer(s) or Purchaser(s)	Purchaser's RRC Assigned System Code
1	<input type="checkbox"/>	<input type="checkbox"/>	[Search]	[ ]
2	<input type="checkbox"/>	<input type="checkbox"/>	[Search]	[ ]
3	<input type="checkbox"/>	<input type="checkbox"/>	[Search]	[ ]

[Add Row]

**Authorized OIL or CONDENSATE Gatherer(s)**

Row	Name of OIL or CONDENSATE Gatherer(s)	Percent of Take	[Close]
1	[Search]	[ ]	[Close]
2	[Search]	[ ]	[Close]
3	[Search]	[ ]	[Close]

[Add Row]

[Refresh] [Print] [Save] [Cancel]

[Home](#) | [All Data](#) | [Submit Data](#) | [Log Out](#)

RRC Gas ID or Oil Lease No. is blank/zero

Service Well, Yes

Gatherers and/or Purchasers info may be blank for UIC wells.

Certify (or Re-certify)

Form P-4 is required when a new "Oil Lease No." or "Gas ID" needs to be assigned. "Gatherer(s) and/or Purchaser(s)" information may be blank for UIC Completions, then filed later by online or hard-copy P-4.

# ADDITIONAL FORM: P-4



**CURRENT OPERATOR CERTIFICATION**

By signing/agreeing to this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

I Accept:  No  Yes

Authorized Employee of current operator:  No  Yes

Authorized Agent of current operator:  No  Yes

[Disclaimer](#) | [RRC Online Home](#) | [RRC Home](#) | [Contact](#)

100%

Electronic Signature

Certify (or Re-certify)

There is a 2<sup>nd</sup> page to “Certify” the P-4.

# ADDITIONAL FORM: W-12



The screenshot shows the 'ONLINE SYSTEM' interface for an 'Oil & Gas Completions' report. The main title is 'W-12 Inclination Report'. The form is divided into several sections:

- Parcel Summary Data:** Includes fields for Tracking No. (20250), Operator Name (NOBLE ENERGY INC (811665)), Field Name (ROBERTSON, N. (SAN ANDRES)), Lease Name (SOUTH ROBERTSON (SAN ANDRES)), and various well and lease identifiers.
- Well Information:** Contains fields for Accumulative total displacement of well bore at total depth of, Distance from surface location of well to the nearest base line, and a checkbox for 'Has the subject well at any time independently deviated from the vertical in any manner?'. A yellow callout 'Well Information' points to this section.
- Shot Point Information:** Includes a checkbox for 'Is the first shot point depth 200 feet or less?' and another for 'Are subsequent shot points 200 feet or less apart?'. A yellow callout 'Shot Point Information' points to this section.
- Certification:** A section where the user certifies the data. A yellow callout 'Certify (or Re-certify)' points to the 'I accept' checkbox.

Red arrows point from the 'Certify (or Re-certify)' callout to the 'I accept' checkbox and the '[Reset] [Print] [Save]' buttons. A yellow callout 'This is the electronic W-12 Data must match W-12 attachment' is positioned over the top part of the form.

Next example is “W-12 Inclination Report”. The “Well Information” & “Shot Point Information” has to match the paper record of Form W-12 that is an Attachment to the Packet. I will be showing Attachments later in the presentation.

# ADDITIONAL FORM: L-1



**For Basic Electric Log Run**

**Option 1: Confidentiality (not rule specified for UIC wells) Attach Log Header**

**Option 2: Log Attached Mail Log to RRC Austin**

**Electronic Signature**

**Certify (or Re-certify)**

61

“L-1 Electric Log Status Report” has several options. For “Basic Electric Log Run”, 1<sup>st</sup> option is to mark “Confidentiality ...”. Then, proceed to use “Load Attachments” for a copy of the Log Header. 2<sup>nd</sup> option is to mark “Log Attached ...”, check “A”, “B”, or “C”, then mail the continuous log to RRC Austin.

## ONLINE COMPLETION OVERVIEW

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- Packet Data
- Completion Data
- Complete Additional Forms
  - P-4, W-12, L-1
- **Load Attachments**
  - W-15, W-12, GAU Letter (formerly TCEQ ),  
Log Header, others e.g. SWR13 Exception Letter
- Submit
- Check for Messages

# LOAD ATTACHMENTS



**ONLINE SYSTEM**  
Oil & Gas Completions

Complete Additional Forms

**Add Attachments**

Some required forms may be optional based on previous filings for this wellbore.

Attachment Name	Status	Attachment Path
Work in Progress	Required	Completion Details.pdf
Work in Progress	Required	Oil & Gas Completion Form - Completion of Recombination Project.pdf
Work Complete	Optional	Oil & Gas Completion Form - Final
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 1
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 2
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 3
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 4
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 5
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 6
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 7
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 8
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 9
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 10
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 11
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 12
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 13
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 14
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 15
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 16
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 17
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 18
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 19
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 20
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 21
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 22
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 23
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 24
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 25
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 26
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 27
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 28
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 29
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 30
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 31
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 32
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 33
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 34
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 35
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 36
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 37
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 38
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 39
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 40
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 41
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 42
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 43
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 44
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 45
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 46
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 47
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 48
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 49
Work Complete	Optional	Oil & Gas Completion Form - Final - Attachment 50

## Attachments

- Check W-15's:
- 2 signatures
  - Item 16 Setting depth
  - Item 17 Number of centralizers
  - Item 18 Hours waiting on cement...

Select W-15  
Cementing Report

Next, I will show “Complete Additional Forms” / “Load Attachments”. The 1<sup>st</sup> example is “W-15 Cementing Report”.

Launch “W-15” attachment from the “Complete Additional Forms” screen.

# LOAD ATTACHMENTS: W-15



**Attachment Type**      **Browse**      **Upload**

**1**      **2**      **3**

**Formats: .pdf or .tif**      **Current Attachments**

Required formats are .pdf or .tif for all Attachments. Step 1 “Attachment Type” is shown pre-selected from the previous screen. I will show a 2<sup>nd</sup> method for Step 1 on the next slide. Step 2 “Browse” to the file to be attached located on your computer. Click “Open” (not shown). Step 3 “Upload” loads the attachment.

# LOAD ATTACHMENTS: W-12



**Pick 1 of 2 ways to initiate the Upload Attachment step**

**Check W-12 attachment:**

- 2 signatures
- 1<sup>st</sup> shot point 500 ft depth
- Shot points not to exceed 1000 ft apart
- Last shot point within 1000 ft of Total Depth

**Current Attachments**

65

Attach “W-12 Inclination Report”.

A 2<sup>nd</sup> way to initiate “Attachment Type” is to use the pull-down menu on “Load Attachments” screen.

# LOAD ATTACHMENTS: W-12



**Attachments**

**Packet Summary**

Tracking No.: 202  
Operator Name: N  
Field Name: ROBE  
Lease Name: SOU  
RRC District No.:  
RRC Gas ID or Oil:  
Well No.: 1115  
API No.: 165-313  
Field No.: 773189

**Attachment Type:** -Select One-

**Current Attachments**

Hardcopy Form-101928	<a href="#">Hardcopy-W-2-50028296.pdf</a>
W-15-491663	<a href="#">Hardcopy-W-15.pdf</a>

**Required Attachments**

No Certified Directional Surveys found for the Packet API.

Select W-12

See previous for Browse, Upload

Pull-Down/Pull-Up Menu for Attachment Type

Refer back to the previous slides for steps Browse & Upload since they are the same for each Attachment.

## ONLINE COMPLETION OVERVIEW

---



- Packet Data
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  - P-4, W-12, L-1
- Load Attachments
  - W-15, W-12, GAU Letter (formerly TCEQ ),  
Log Header, others e.g. SWR13 Exception Letter
- **Submit**
- Check for Messages

# SUBMIT PACKET



**Oil & Gas Completions**

Submit Packet

**Form Name**

**Click Submit**

**Status**

**Attachments**

**Service Well, Yes**

PK	Form Name	Warnings	Status
[PK]	Packet Data	16	Work In Progress
[PK]	W-3	15	Certified
[PK]	W-2	16	Certified
[PK]	W-1	16	Work In Progress
[PK]	P-4 Data	15	Certified

This is the 1<sup>st</sup> "Submit" screen. There is a listing of "Form Names". "Status of Packet Data" will be "Work In Progress". All other "Status" should be "Certified". There is a listing of "Attachments".

# SUBMIT PACKET



**RRC ONLINE SYSTEM** Choose an Application Go Log Out

Oil & Gas Completions

Completions Home Completions Menu **PS Menu** Internal Menu Help

Packet Data W-2 Complete Additional Forms Load Attachments Messages **Submit** Letters Return to List

### Submit Packet

<b>Packet Summary Data</b>	Submitted: <b>Hard Copy</b>
Tracking No.: <b>20250</b>	Status: <b>Work in Progress</b>
Operator Name: <b>NOBLE ENERGY INC (611665)</b>	Type Of Completion: <b>Reentry</b>
Field Name: <b>ROBERTSON, N. (SAN ANDRES)</b>	Completion or Recompletion Date: <b>11/15/1999</b>
Lease Name: <b>SOUTH ROBERTSON (SAN ANDRES) U.</b>	Purpose Of Filing: <b>Well Record Only</b>
RRC District No.: <b>8A</b>	Well Type: <b>Active UIC</b>
RRC Gas ID or Oil Lease No.: <b>67419</b>	County: <b>GAINES</b>
Well No.: <b>1115</b>	Drilling Permit No: <b>016752</b>
API No.: <b>165-31321</b>	Wellbore Profile: <b>VERTICAL</b>
Field No.: <b>77318900</b>	

Are you sure you wish to submit this Packet?

**Submit Forms Lacking**

Submit with required forms missing or uncertified?:  No  Yes

Submit with required attachments missing?:  No  Yes

Cancel Submit

Disclaimer | RRC Online Home | RRC Home | Contact

Step 1 - Packet Data  
Step 2 - W-2 Data  
Step 3 - Complete Additional Forms  
Step 4 - Load Attachments  
Step 5 - Submit

**Submit**

**No**

**No**

69

This is the 2<sup>nd</sup> "Submit" screen. Try to Submit with both questions answered "No". If the system responds with red text warnings, then you have the option to Submit again from this same screen with one or both answered "Yes". This procedure is "Submit with Forms Lacking".

## SUBMIT WITH FORMS LACKING



- Submit with required forms missing or uncertified?:
- Submit with required attachments missing?:

Answer one or both “Yes”

If RRC analysts give Final Approval to the Completion Packet with Forms Lacking, then the Operator will need to provide the lacking forms or attachments as soon as possible.

70

**Here is a description of the likely outcome of “Submit with Forms Lacking”. The RRC analyst will either require the missing Form or Attachment through Messaging prior to Final Approval of the Completion Packet, or grant Final Approval to the Completion Packet with Forms Lacking which will provide extra time for the Operator or Agent to provide the missing items.**

# SUBMIT PACKET



[Completions Home](#) [Completions Menu](#) [Internal Menu](#) [Help](#)

- (Cmpl\_1275) The Packet has been submitted successfully.
- (Cmpl\_1340) Upon review of your filing by RRC Staff, additional forms/attachments/information may be required.

[Packet Data](#) [W-2](#) [Complete Additional Forms](#) [Load Attachments](#) [Messages](#) [Submit](#) [Letters](#)

## Submit Packet

Packet Summary Data	Submitted: Hard Copy
Tracking No.: 2312	Status: <b>Submitted</b>
Operator Name: M-TEX RESOURCES, INC. (518935)	Type Of Completion: <b>Other</b>
Field Name: <b>NOODLE-CENTRAL</b>	Completion or Recompletion Date: <b>07/02/1979</b>
Lease Name: <b>WILLIAMS, C.F.</b>	Purpose Of Filing: <b>Well Record Only</b>
RRC District No.: <b>7B</b>	Well Type: <b>Active UIC</b>
RRC Gas ID or Oil Lease No.: <b>02652</b>	County: <b>JONES</b>
Well No.: <b>2</b>	Drilling Permit No:
API No.: <b>253-31141</b>	Unit No:
Wellbore Profile:	

Step 1 - Packet Data

Step 2 - W-2 Data

Step 3 - Complete Additional Forms

Step 4 - Load Attachments

Step 5 - Submit

The Packet 2312 has been submitted successfully. ←

... submitted successfully message



71

Now, we have submitted the Packet successfully.

## ONLINE COMPLETION OVERVIEW

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- Packet Data
- Completion Data
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  - W-15, W-12, GAU Letter (formerly TCEQ ),  
Log Header, others e.g. SWR13 Exception Letter
- Submit
- **Check for Messages**

## PROBLEM RESOLUTION



- Respond to RRC Messages on packet
- Provide additional data, forms, attachments
- Electronic signature & re-certify on all forms released
- Re-submit packet if released
- Problem resolution
  - W-1 Drilling Permit Amendment
  - H-1/H-1A or W-14 Injection/Disposal Permit Amendment
  - UIC Certified (Pre-Severance) Letter
  - P-4 Severance or Seal

73

**A Completion Packet may need problem resolution. The Online System allows RRC analysts to release each Form separately, or to release the Packet back to the Operator or Agent for corrections. Forms are Re-Certified and the Packet is Re-Submitted. Also separately, the Packet can be set to add or delete Attachments. Permit Amendment can be required, for example, to make Field Name match. A Certified Letter can be sent after Messages are not responded to for 30 days. Severance of the P-4 can occur 30 days after the Certified Letter Date if problems are not resolved.**

## CONTACT INFORMATION

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- **Jim Moore**
  - Injection / Disposal Permitting
  - UIC Completions
- **512-463-6443 (Direct)**
- **512-463-6792 (Main)**
- **512-463-6780 (Fax)**
- **[jim.moore@rrc.texas.gov](mailto:jim.moore@rrc.texas.gov)**