

# **H6A Permitting & ePermitting Update**



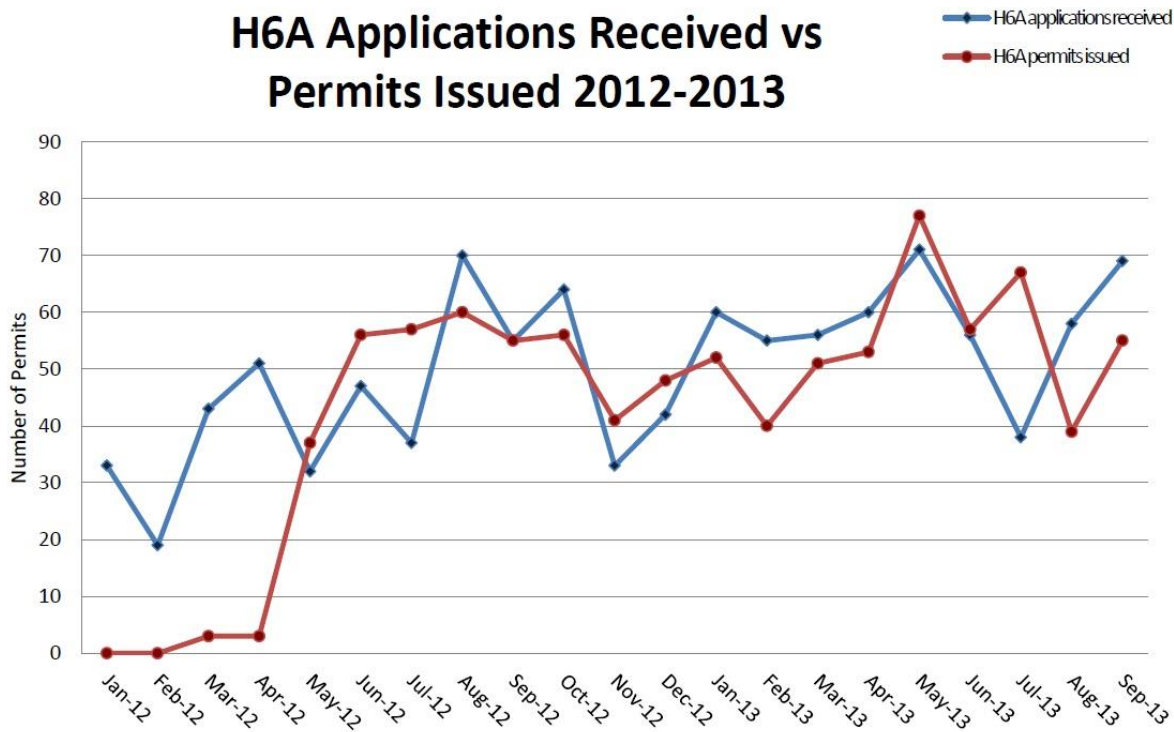
west virginia department of environmental protection

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**Oil & Gas Workshop, Charleston Civic Center**  
**Oct 30, 2013**

# WV Horizontal 6A Permits Issued Jan 2012 – Sept 2013

## H6A Applications Received vs Permits Issued 2012-2013



### Horizontal 6A Wells Issued in 2013

MONTH	Applications Received	Permits Issued #	OOG Days	Total Days
January	60	52	78	88
February	55	40	62	77
March	55	51	58	80
April	59	53	69	77
May	73	77	71	94
June	56	57	66	76
July	36	67	76	82
August	58	39	70	78
September	69	55	71	79
<b>TOTAL</b>	<b>521</b>	<b>491</b>		
<b>YTD Avg</b>			<b>70</b>	<b>82</b>

# 6A Notice of Application

- Must use version of 6A form updated 8/13 ([on our website](#))  
New version contains additional language required by §35-8
- 6A notice must be sent to:
  - Surface owners of pad, road, impoundments, pits, & any other disturbances
  - Surface owners of water wells and/or water purveyors within 1500' of proposed well
  - Coal owner, lessee, operator
  - Operator of any natural gas storage field
- **All** those noticed with 6A need a copy of Site Safety Plan and MSDS

# Material Safety Data Sheets

- Per §35-8 5.7.a, MSDS must accompany every H6A well application submitted to our office
  - Please send as either a CD or USB drive attached to each application
  - Label with Operator Name and Well Name/Number
- MSDS for all materials and chemicals on the well site still must be kept on well site, as prescribed in §35-8 5.7.g

# New Plat Requirements of §35-8-6

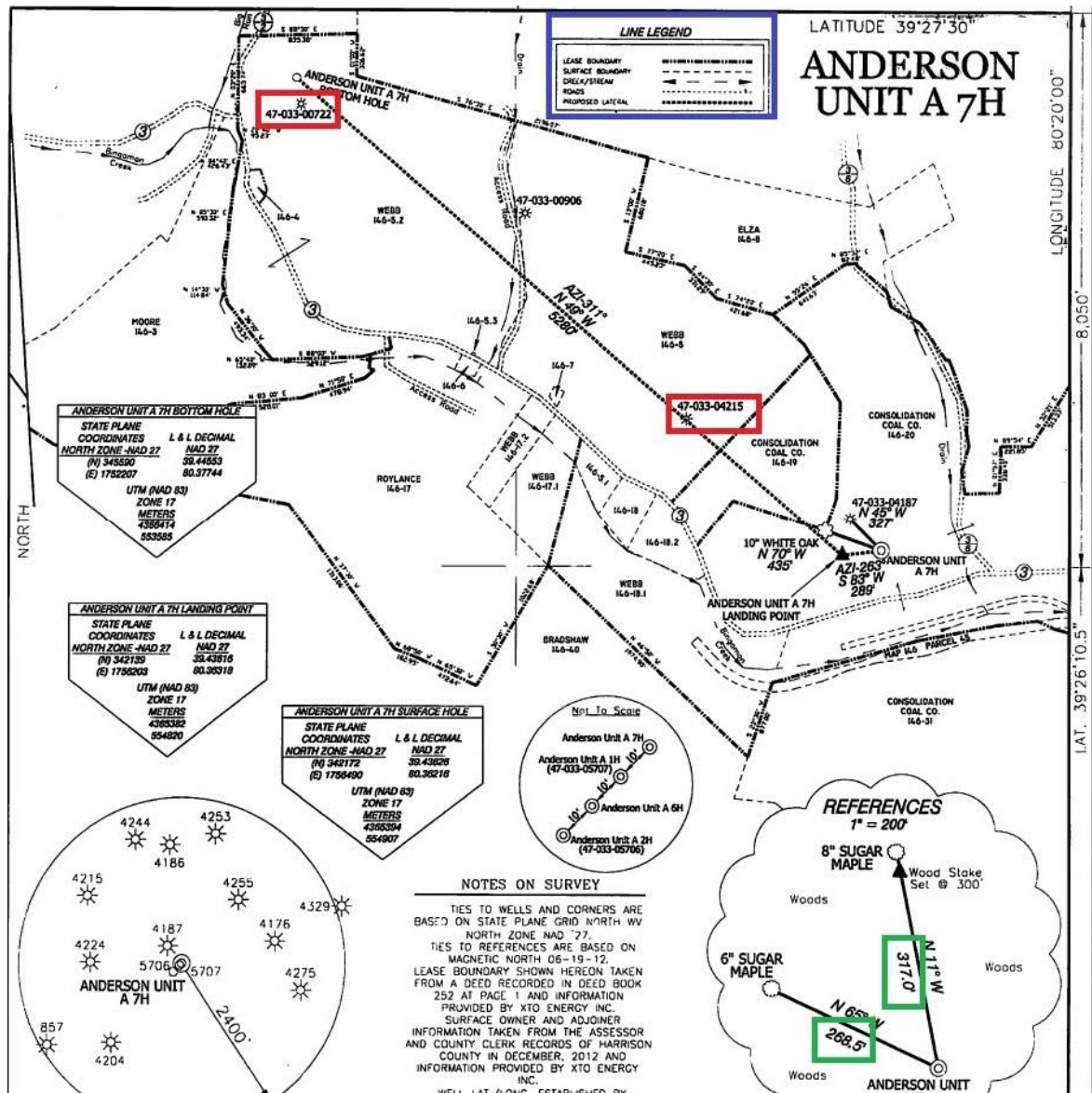
## Highlights of §35-8-6.2 Form and Contents of Plats

- Two reference points, “beyond the limits of the drilling site but within 600 feet of the well location”
- All mineral tract boundaries within the scope of the well location plat shall be shown
- Mineral tract boundary lines and surface tract boundary lines shall be clearly distinguishable from each other

### **All plats must show:**

- All wells within the scope of the plat
- All wells within 2400’ of proposed well
- All wells within 500’ of the horizontal section
- Existing water wells within 250’
- Dwellings or Ag buildings >2500ft<sup>2</sup> within 625’
- Streams, roads, & railroads within scope of plat

# Example of New Plat Requirements



Lease boundaries distinguishable from surface boundaries

Existing gas wells within 500' of lateral are shown

Reference points are within 600' of proposed well

# Another example of New Plat Requirements



Shows 500' radius surrounding lateral bore & existing gas wells within

Note states no dwellings or water wells within prescribed distances

# Cement for Surface or Coal Protection Casing

## §35-8-9.2.h.8

Cement used to fill the annular space around the freshwater and coal protection casing shall be **API Class A Ordinary Portland cement with no greater than three percent (3%) calcium chloride and no other additives**. If the well operator furnishes satisfactory proof that a different type of cement or additive is adequate, the Chief may approve use of a different type of cement.



# Questions?

Any questions on H6A permitting requirements?



# OOG ePermitting, or Electronic Submission System

- Currently in beta testing stage for H6A applications
- Production & Plugging apps are in development
- Additional apps and electronic forms to come

dep Department of Environmental Protection State of West Virginia

Enter Login Information:  
Login:   
Password:

Once you have successfully entered your login information, any period of inactivity for 2 hours will log you out of the system.

[Forgot login or password?](#)

[Click to go to login page](#)

"Promoting a Healthy Environment."  
Please use Microsoft Internet Explorer 6.0 through 9

Monday October 21, 2013

# OOG Electronic Submission System (ESS) Overview

- This is what the main menu of an H6A application looks like
- The various forms are listed on the left
- Each form is completed by the Operator, then submitted to OOG for review
- Attachments are added to appropriate pages, such as plat and construction plans

**west virginia electronic submission system**  
dep section list

Current User: COOPER-CONSULTING, LAURA      Applicant: COOPER-CONSULTING, LAURA  
Ref. Id: test 101713 (10/17/2013)      Type: Horizontal 6A Well  
Status: New      Permit No.: New/Pending

Attachments  
Comments  
Activities  
Print  
Progress  
Milestones  
Change Ref Id  
Delete Application  
Request Copy  
Payment Report  
Verify Signature  
Return Home  
Log Out

The items listed to the right make up the application.  
By clicking on each item, you can fill out the required form and submit your application for approval.

WW-6B:  
 WW-6B:  
 WW-6B:  
 WW-6B:  
 WW-6B:  
 WW-6B:  
 WW-6B:  
 WW-9:  
 WW-PN:  
 WW-6A:  
 WW-6AC:  
 WW-6A2:  
 WW-6A2:  
 WW-6A3:  
 WW-6A3:  
 WW-6A4:  
 WW-6A4:  
 WW-6A4W:  
 WW-6A4W:  
 WW-6A5:  
 WW-6A5:  
 WW-6RW:  
 WW-6AW:  
 WW-6A1:  
  
 IMP-1A:  
 WW-6A7:

DEP Findings - General Information  
 General and Location Information  
 DEP Findings - Deep Well Approval  
 Target Formations  
 Depth Specifics  
 Well Work and Mine Details  
 FRAC Additives  
 Casing and Cementing  
 Centralizers, Cement, Borehole  
 DEP Findings - Casing and Cementing Plan  
 Packers  
 Fluids, Cuttings Disposal and Reclamation Plan  
 Public Notice  
 Notice of Application  
 Notice Certification  
 Notice of Seismic Activity **[ Add ]**  
 Notice of Seismic Activity **[ Remove ]**  
 Notice of Entry for Plat Survey **[ Add ]**  
 Notice of Entry for Plat Survey **[ Remove ]**  
 Notice of Intent to Drill **[ Add ]**  
 Notice of Intent to Drill **[ Remove ]**  
 Notice of Intent to Drill Waiver **[ Add ]**  
 Notice of Intent to Drill Waiver **[ Remove ]**  
 Notice of Planned Operation  
 Notice of Planned Operation  
 Well Location Restriction Waiver **[ Add ]**  
 Voluntary Statement of No Objection **[ Add ]**  
 Lease Form  
 General Attachments  
 DEP Findings - Erosion and Sediment Control  
 DEP Findings - Site Safety Plan  
 Certification  
 Water Management Plan  
 Water Management Plan - Water Addendum  
 Associated Pit or Impoundment **[ Add ]**  
 Well Restriction Checklist

# Electronic Submission System (ESS) Demonstration

Address: https://epermitt.dep.wv.gov/webapp/\_dep/securearea/application/Templates/GenericModule.cfm

Current User: COOPER-CONSULTING, LAURA  
 Ref. Id: test 101713 (10/17/2013)  
 Status: New

Applicant: COOPER-CONSULTING, LAURA  
 Type: Horizontal 6A Well  
 Permit No.: New/Pending

### WW-6B: General and Location Information

Section Complete  Section Incomplete  Activities Attachments Comments Instructions

API Number: New/Pending (47-...)

Operator's Well Number: [Redacted]

Filing Fee:  First Well on Pad  Subsequent Well on Pad

Well Pad Name: [Redacted]

Surface Owner: [Redacted]

Public Road Access: [Redacted]

Please attach each of the following as separate documents:

- Well Plat
- Wellbore Schematic

County: [Redacted] District: [Redacted]

Quadrangle: [Redacted]

Top Hole(UTM NAD83):  
 Easting: [Redacted] Northing: [Redacted] Zone: [Redacted]

Proposed Landing Point(UTM):  
 Easting: [Redacted] Northing: [Redacted] Zone: [Redacted]

Proposed Bottom Hole(UTM):  
 Easting: [Redacted] Northing: [Redacted] Zone: [Redacted]

Elevations - Current Ground: [Redacted] Proposed Post-Construction: [Redacted]

Well Type:  Gas  Oil  Underground Storage  Other

Will well be drilled more than 100 feet into the Onondaga Group?  Yes  No

Depth Type:  Shallow  Deep

Save Changes Back Next Print Current Version Reset

### WW-6B: Depth Specifics

Section Complete  Section Incomplete  Activities

Proposed Post-Construction Elevation: [Redacted]

Proposed Total Vertical Depth: [Redacted] (ft.)

Formation at Total Vertical Depth: [Redacted]

Proposed Total Measured Depth: [Redacted] (ft.)

Proposed Total Horizontal Leg Length: [Redacted] (ft.)

Method to Determine Fresh Water Depth: [Redacted]

Approximate Fresh Water Strata Depths

[Redacted] (ft.)

Add 1 Row

Approximate Coal Seam Depths

[Redacted] (ft.) Coal Seam Name, if known: [Redacted]

Add 1 Row

Approximate Depth to Possible Void(coal mine, karst)

[Redacted] (ft.) Not Anticipated:

Add 1 Row

### Casing and Cementing

Corrections Required  Section Complete  Section Approved  Activities Attachments

Complete the following table, adding as many rows of each Type as needed.

Type	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	Footage: For Drilling	Intervals: Left in Well
Conductor	16	New	J55	40	40	40
Wellbore Diameter (in)		Wall Thickness (in)		Burst Pressure (psi)		
17.5		.495		3000		
Cement Type		Yield (cu. ft./sk)	Fillup - Cubic Feet	Top of Cement	Circulated to Surface?	
Class A Cement		1.19	98.3	0	<input checked="" type="checkbox"/>	
Type	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	Footage: For Drilling	Intervals: Left in Well
Fresh Water	11 3/4	New	J55	32	332	332
Wellbore Diameter (in)		Wall Thickness (in)		Burst Pressure (psi)		
15		.333		1500		
Cement Type		Yield (cu. ft./sk)	Fillup - Cubic Feet	Top of Cement	Circulated to Surface?	
Class A Cement		1.26	157.21	0	<input checked="" type="checkbox"/>	
Type	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	Footage: For Drilling	Intervals: Left in Well
Intermediate	8 5/8	New	J55	24	2000	2000
Wellbore Diameter (in)		Wall Thickness (in)		Burst Pressure (psi)		
11		.264		2500		
Cement Type		Yield (cu. ft./sk)	Fillup - Cubic Feet	Top of Cement	Circulated to Surface?	
Class A Cement		1.45	505.3	0	<input checked="" type="checkbox"/>	
Type	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	Footage: For Drilling	Intervals: Left in Well
Production	5 1/2	New	P110	17	16000	16000
Wellbore Diameter (in)		Wall Thickness (in)		Burst Pressure (psi)		
7 7/8		.304		15000		
Cement Type		Yield (cu. ft./sk)	Fillup - Cubic Feet	Top of Cement	Circulated to Surface?	
Type 1 Cement		1.34	2768	1000	<input type="checkbox"/>	

# Moving Forward with ESS

- H6A application should be available for general use Spring 2014
- Duplicating a permit is currently being worked on by our developers
- Training for industry will be held when ESS goes live for general use
- Other applications and submittals will be available in 2014-2015  
(Production, WR35, vertical wells, coalbed methane wells, modifications)

## **How ESS helps the permitting and form submittal process**

- Saves time – prep time on Industry side, review time on DEP side
- Eliminates a lot of confusion – everyone sees the same application, stored in the same place (on DEP servers)
- Allows for a seamless flow of information, rather than relying on email and old fashioned mail for communications/submittals
- Saves paper... me having to drag home paper to review, drag it back, paper cuts, throwing away extra paper, etc etc etc.

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Permitting**

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west virginia department of environmental protection