

H6A Permitting & ePermitting Update



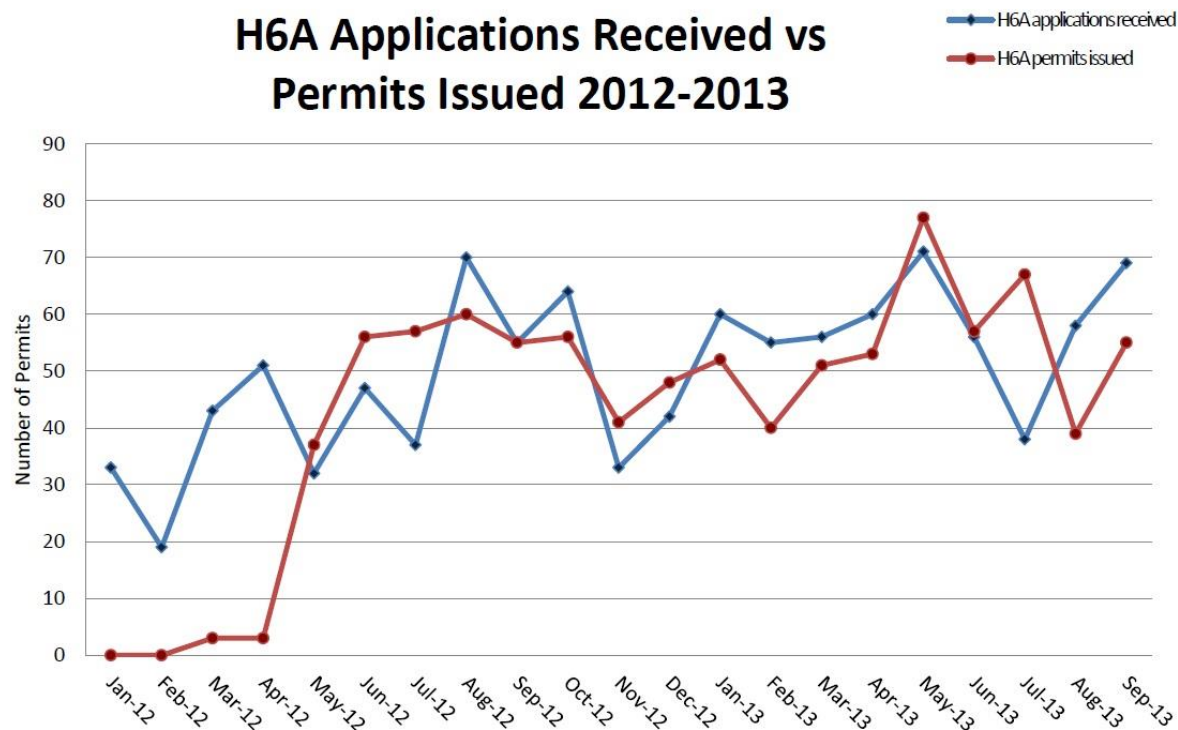
west virginia department of environmental protection

Laura Cooper
Environmental Resource Analyst, Permitting

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
TOTAL	521	491		
YTD Avg			70	82

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

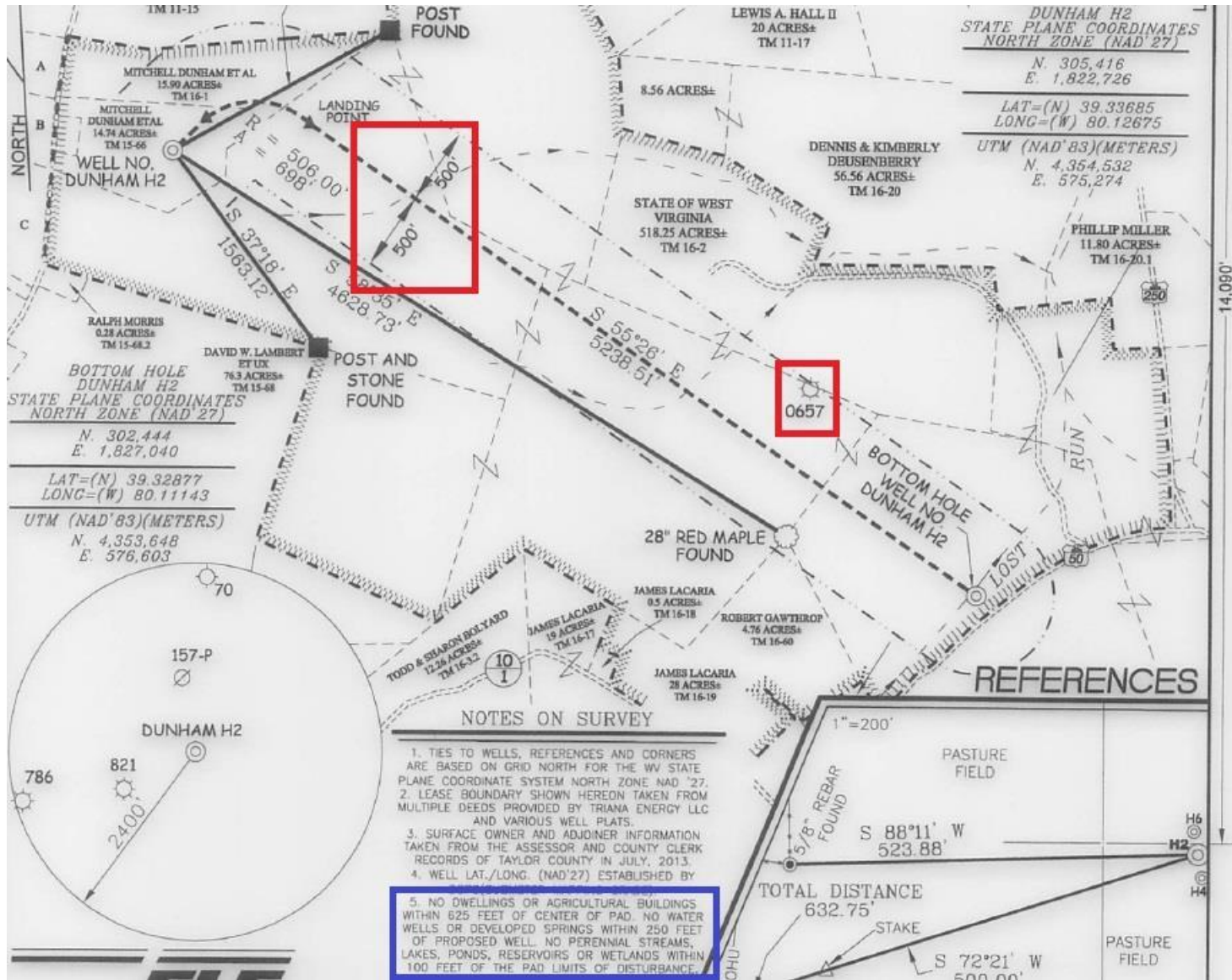
All plats must show:

- 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 >2500ft² within 625'
- Streams, roads, & railroads within scope of plat



Example of New Plat Requirements

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

section list

Attachments

Comments

Activities

Print

Progress

Milestones

Change Ref Id

Delete Application

Request Copy

Payment Report

Verify Signature

Return Home

Log Out

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:

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

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.

Electronic Submission System (ESS) Demonstration

Address: https://epermits.dep.ny.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

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 [Redacted]

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

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, etc.)

[Redacted] (ft.) Not Anticipated: ☐

Add 1 Row

Casing and Cementing

Corrections Required Section Complete Section Approved

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.

Laura K. Cooper

**DEP Office of Oil and Gas
Permitting**

**304-926-0450 x1547
Laura.K.Cooper@wv.gov**



west virginia department of environmental protection