

Wetzel County Action Group (WCAG)

Mission. The Wetzel County Action Group will support economic development for the county and state; and work to insure that economic development does not negatively impact the safety, economic interests, and quality of life of the Citizens of Wetzel County.



LAND

We must protect our AIR—WATER--- LAND

While Looking for Balance in our Quest for Energy



W. Hughes, Wetzel County

The Next 3 slides show some examples combining map and data base information onto Google Earth background to share with various regulatory agencies.

This map was assembled recently using Google Earth, County Highway map details, topographic maps, and sent to WVDOH on damaged roads



This map was assembled using Google Earth, topographic maps, well plats, OOG Database info and sent to WVDEP and to others concerning water withdrawal from stream and truck traffic in stream bed.



Combining map info

This map was assembled this week using new legal ad, tax maps Topographic maps, and sent to our county flood plain coordinator



New Martinsville

Wetzel County[®] WV 2006 Before any Marcellus well activity

31.96° 157

СНК

Silver hill

New Martinsville

Wetzel County

Gastar Marshall County

Silver hill

New Martinsville

Wetzel County

Silver hill

Wetzel County

New Martinsville

Stone

Stone

New Martinsville

Grenadie,

Silver hill

Wetzel County

Silver hill

New Martinsville

Wetzel County

HGEnergy

Silver hill

New Martinsville

Wetzel County

EQT

New Martinsville

Wetzel County

Triad H.

Trans E.

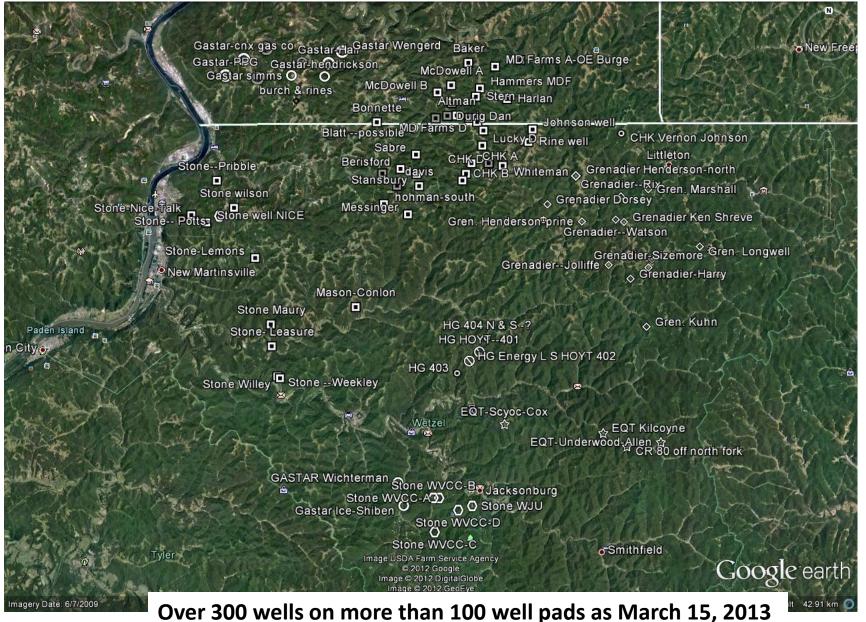
Wetzel County

126 15

•New Martinsville

325 Wells 108 Well pads

Marcellus Well Pads in Wetzel & South Marshall, WV



Typical Sequence for Marcellus Shale Gas Operations					
PRODUCTION STAGES	TYPICAL PROBLEMS EXPERIENCED BY THE COMMUNITY				
1 Site preparation:	LAND-TRAVEL-TRAFFIC	WATER ISSUES	AIR POLLUTION		
 Site preparation: clearing, road, grading, gravel, drainage Drill rig move, set up; Drilling operations; remove rig Hydraulic fracturing; sand kings, frac pumps, sand cans Completions; condensate and brine tanks; 	 Damaged roads Dusty or muddy roads Broken elec. & phone lines Blocked roads & delays due to truck accidents Dangerous big trucks Escorts left of center Guard rails damaged Signs & bridges damaged Large truck caravans 	 Muddy streams from gas operation runoff. Spilled drill brine fluids Streams and rivers contaminated with drill waste Erosion & sedimentation of streams Slips from ponds, well pads and pipelines. Contaminated springs 	 Diesel fumes Silica dust Large releases of raw gas Large scale burning of brush Cinder dust on roads Dusty roads Fugitive gas emissions Rock dust from drilling Condensate tank fumes Fumes from flaring 		
 Gas processing on well pads Pipelines and Compressor Compressors, De- hydration & Gas Processing Plants 	 Being run off roads by large trucks running left of center Decreased property values Permanent loss of pasture, timber and farm land Increased demand on all Emergency services Habitat fracturing by pipelines RoWs. 	 Spilled and dumped drill mud or cuttings Large consumption of fresh water sources and disposal problems 	 Ozone formation Compressor station fumes Pipeline discharges Light pollution Noise pollution Bill Hughes Wetzel County Action Group 6-2013 		

Typical Production Sequence for Marcellus Shale Gas Operations

- 1. Site preparation: clearing, road, grading, gravel, drainage
- 2. Drill rig move, set up; Drilling operations; remove rig
- 3. Hydraulic fracturing; sand kings, frac pumps, sand cans
- 4. Completions; condensate and brine tanks;
- 5. Gas processing on well pads
- 6. Pipelines and Compressor
- 7. Compressors and Gas Processing Plants

WHAT WE CAN AND WILL DO BEFORE STEP ONE

Well Watcher Preparation Core Curriculum

Required Ingredients

- 1. Newspaper---get subscription; study legal ads-wells & air
- 2. Using Google Earth; mark all well pads & compressors site.
- Set up Separate Folders for each operator using unique icons. In properties insert API numbers
- 4. Topographic maps (Order or online)
- 5. Tax maps, court house \$ \$ find owners of record near WELL
- 6. Highway maps enlarge, mark well pads
- 7. Order Well Work Applications with Well plats, and much more.
- 8. Permission to be on property (copy to sheriff if needed)
- 9. Combine all above ingredients on low heat, stir, and study and share with neighbors---Repeat---

Pg. 9 APRil 17, 2013

WW-PN

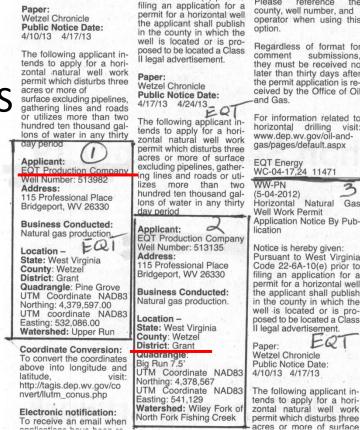
lication

(5-04-2012)

Well Work Permit

Legal Notices

SAMPLE LEGAL ADS REQUIRED FOR WELL WORK **APPLICATIONS**



Legal Notices Legal Notices Legal Notices For information related to or scans of the proposed Natural gas production. Application Notice By Rebhorizontal drilling visit: permit application will cost lication EQ www.dep.wv.gov/oil-and-\$15, whether mailed or ob-Location gas/pages/default.aspx tained at DEP headquar-State: West Virginia Notice is hereby given: Pursuant to West Virginia ters. Copies may be County: Wetzel EQT Energy WC-04-10,17 11452 requested by calling the of-District: Grant Code 22-6A-10(e) prior to fice or by sending an email Quadrangle:Big Run 7.5' UTM Coordinate NAD83 filing an application for a to DEP.oog@wv.gov. permit for a horizontal well Northing the applicant shall publish Submitting Comments: 4,378,233.6, 4,378.231.2 in the county in which the Comments may be submit-UTM coordinate NAD83 well is located or is pro-Horizontal Natural Gas ted online at Easting posed to be located a Class https://apps.dep.wv.gov/o 540,607.0, 540,610.9 II legal advertisement. Application Notice By Pubog/comments/comments. Watershed: cfm, or by letter to Permit North Fork Fishing Creek Paper: Review, Office of Oil and Wetzel Chronicle Notice is hereby given: Pursuant to West Virginia Gas, 601 57th Street, SE Coordinate Conversion: Public Notice Date: Charleston, WV 25304. To convert the coordinates 4/10/13 4/17/13 Code 22-6A-10(e) prior to Please reference the above into longitude and county, well number, and latitude, The following applicant invisit: operator when using this http://tagis.dep.wv.gov/co tends to apply for a horioption. nvert/llutm_conus.php zontal natural well work permit which disturbs three Regardless of format for Electronic notification: acres or more of surface comment submissions, To receive an email when excluding pipelines, gatherthey must be received no applications have been reing lines and roads or utilater than thirty days after ceived or issued by the Oflizes more than two the permit application is refice of Oil and Gas, visit hundred ten thousand galceived by the Office of Oil http://www.dep.wv.gov/in lons of water in any thirty and Gas. sidedep/Pages/DEPMailin day period. FQ gLists.aspx to sign up. For information related to Applicant: horizontal drilling visit: Reviewing Applications: Copies of the proposed EQT Production Company www.dep.wv.gov/oil-and-Well Number: gas/pages/default.aspx permit application may be 512754, 513867, 513868 reviewed at the WV Depart-Address: EQT Energy WC-04-17,24 11471 ment of Environmental Pro-115 Professional Place tection headquarters. PO Box 280 Bridgeport, WV 26330 located at 601 57th Street WW-PN 3 SE Charleston, WV 25304 (5-04-2012)(304-926-0450). Full copies Business Conducted: Horizontal Natural Gas or scans of the proposed Natural gas production. Well Work Permit permit application will cost Application Notice By Pub-\$15, whether mailed or ob-Location lication tained at DEP headquar-State: West Virginia ters. Copies may be County: Wetzel Notice is hereby given: requested by calling the of-District: Grant Pursuant to West Virginia fice or by sending an email Quadrangle:Big Run 7.5' Code 22-6A-10(e) prior to to DEP.oog@wv.gov. UTM Coordinate NAD83 filing an application for a Northing permit for a horizontal well Submitting Comments: 4,381,451.1 4,381,455.2 the applicant shall publish Comments may be submit-4,381,453.1 in the county in which the ted online UTM coordinate NAD83 well is located or is proat https://apps.dep.wv.gov/o Easting: posed to be located a Class og/comments/comments. 532,764.7 532,756.5 Il legal advertisement. cfm, or by letter to Permit 532,760.6 EQI Review, Office of Oil and Watershed: Paper: Gas, 601 57th Street, SE Sheep Run and North Fork Wetzel Chronicle Charleston, WV 25304 Fishing Creek Public Notice Date: Please reference the 4/10/13 4/17/13 county, well number, and operator when using this The following applicant inoption. tends to apply for a hori-

Regardless of format for

comment submissions

Legal Notices To convert the coordinates above into longitude and latitude. visit: http://tagis.dep.wv.gov/co nvert/llutm_conus.php Electronic notification: To receive an email when applications have been received or issued by the Of-

fice of Oil and Gas, visit http://www.dep.wv.gov/in sidedep/Pages/DEPMailin gLists.aspx to sign up.

Reviewing Applications: Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters. located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.oog@wv.gov.

Submitting Comments: Comments may be submitted online https://apps.dep.wv.gov/o og/comments/comments. cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option. Regardless of format for

comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-andgas/pages/default.aspx

Coordinate Conversion: **EQT** Company

City of Sistersville

Wednesday, Apr

Legal Notices

WW-PN (5-04-2012)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given: Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class Il legal advertisement.

To receive an email when

Legal Ad Details

Operator

Well Number

County

District

Quadrangle- topographic

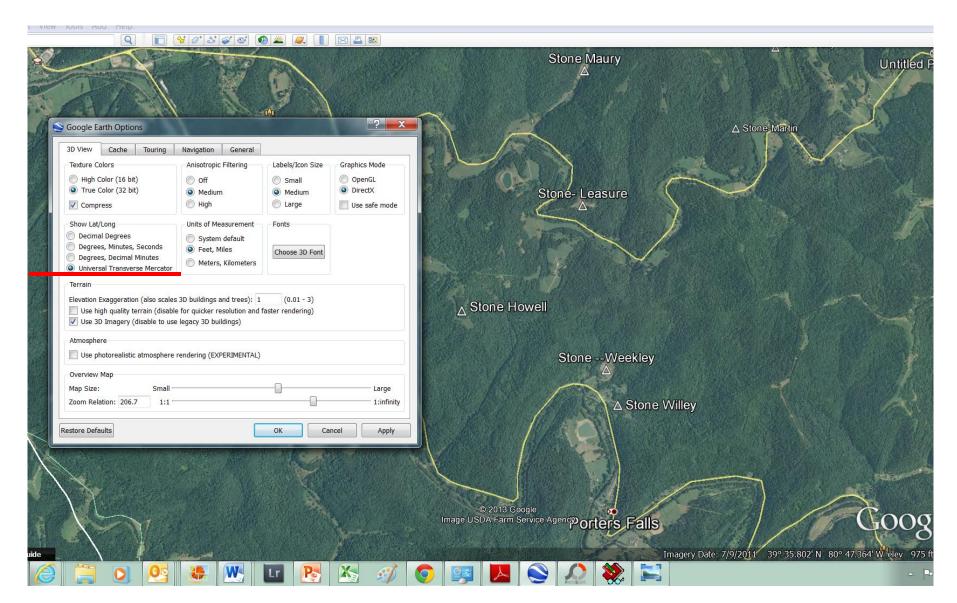
UTM coordinates E & N

Watershed

For Stone Energy Howell well pad

APRIL 25, 2012 Legal Notices **Legal Notices** Please take notice that ment of Environmental Pro-Stone Energy Corporation tection: www.dep.wv.gov intends to submit a Well Work Permit Application for wells identified as Howell Any interested person may Pad to include wells 1H, submit written comments or 2H, 3H, 4H, 5H, 6H, 7H, request a copy of the proposed permit 8H. 9H and 10H which will application by emailing, be located in : dep.oogcomments@wv. gov or sending a letter to: State: WV County: Wetzel Permit Review District: Magnolia Office of Oil and Gas Quadrangle: New Martinsville 604 57th Street, SE Charleston, WV 25304 Easting: 517,661 Approximate UTM NAD 83N orthing: 304-926-0450. Or call 4.382.928 Emailed or written com-Tributary to ments must reference the Watershed: county, well number, and **Fishing Creek** operator and received by 3-Additional information con-15-2012. cerning this application Stone Energy may be found at the following website maintained by WC 04-18,25 10938 the West Virginia Depart-

In Google Earth , under tools, options, 3D view, "Show Lat/Lon---set to UTM



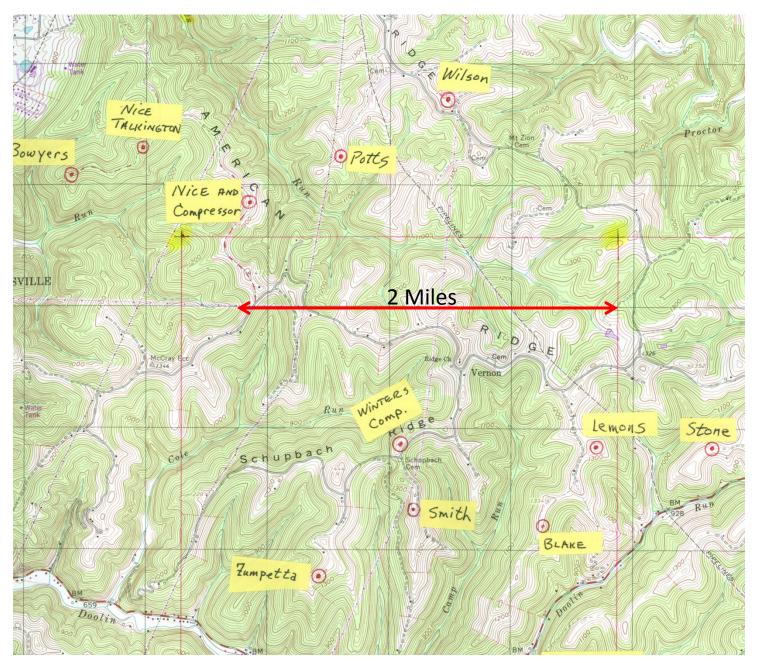
Add New Well location using legal ad UTM coordinates: Use "ADD" or Yellow push pin for new Placemark

1				
ew Tools Add H		R21		
	Google Earth - New Placemark Name: Stone Howell Pad		Stone Maury A	○ pipeline on △ Stone Tracy
	Zone: 17 S Easting: Insert number m E Northing: Insert number m N Description Style, Color View Altitude Label Color: Scale: 0.0 © Opacity: 100% ©	Choose Icon	Stone-Martin A Stone-Leasure New Well Location From Legal Pu	ublic Notice
	Icon Color: Scale: 0.1 🖉 Opacity: 100% 💭	Size & Color & Type	Stone Howell A StoneWeekley A	
C	ОК	Cancel	▲ Stone Willey	
		© 2013 (Image USDA Farm	Google n Service Agency	Go

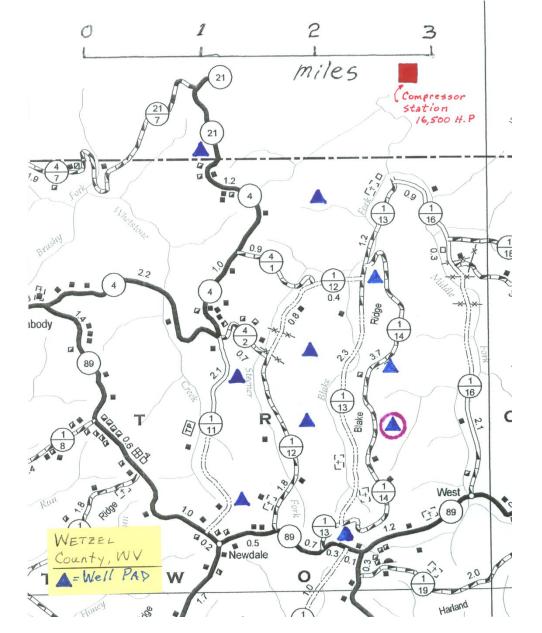
Later, all permitted wells on that pad should be listed in the **Description** tab. Cut & paste from OOG using Excel.

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		Zone: 17 S Easting: 517661.00 m E Northing: 4382925.00 m N				
Description Add link Anril 25	Style, Color View Altitude Add image 2012 May 16-& 23 Charles Howell				A-Stone Howell	1.00 K
103-0279 103-0279 103-0279 103-0279 103-0279 103-0279 103-0279 103-0279 103-0279 103-0285 103-0285 103-0285	2012 May 10 GL2 S (CREORATION) 5 STONE ENERGY CORPORATION 9 STONE ENERGY CORPORATION 9 STONE ENERGY CORPORATION 4 STONE ENERGY CORPORATION 6 STONE ENERGY CORPORATION 7 STONE ENERGY CORPORATION 8 STONE ENERGY CORPORATION 8 STONE ENERGY CORPORATION 8 STONE ENERGY CORPORATION 9 STONE ENERGY CORPORATION 0 STONE ENERGY CORPORATION	HOWELL, CHARLES L. AND RUTH C. HOWELL, CHARLES L. & RUTH C. HOWELL, CHARLES L. & RUTH C. HOWELL, CHARLES L. AND RUTH C.	HOWELL 8H* 4382914.3230 HOWELL 1H 4382913.5320 HOWELL 7H 4382925.6260 HOWELL 7H 4382908.3320 HOWELL 7H 4382920.4260 HOWELL 9H 4382926.4170 HOWELL 9H 4382926.4170 HOWELL 5H 4382925.5100 HOWELL 2H 4382907.5410 HOWELL 6H 4382914.3230	517669.4910 517663.3970 517661.8240 517670.2780 517667.9180 517667.1310 517667.1310 517667.1310 517664.1830 517669.4910		
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New Martinsville Quadrangle Topographic Map Stone Energy Well Pads

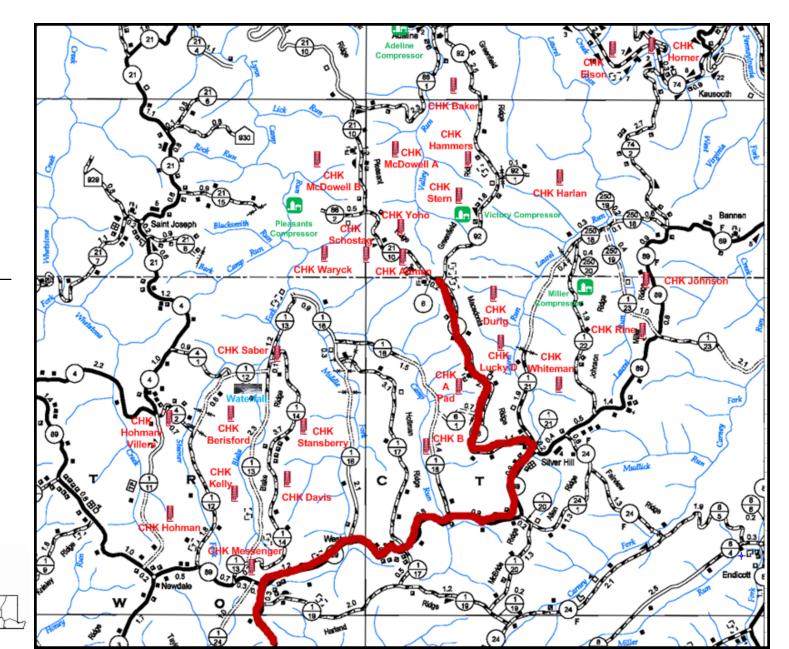


CHK Well Pads on Highway Map



Wetzel County Victory Gas Field

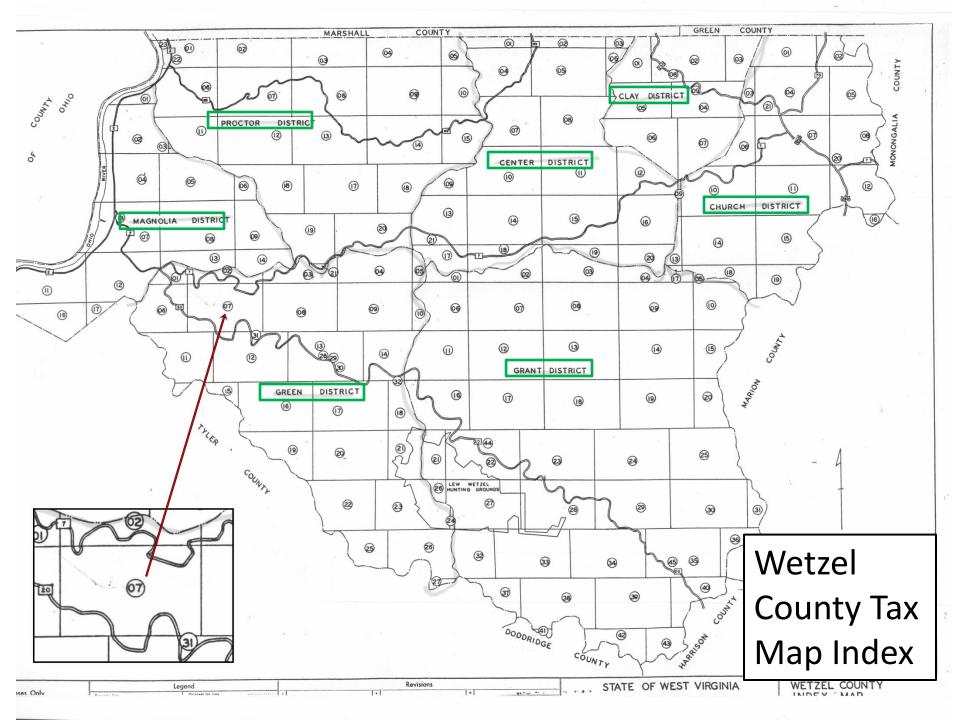
All Narrow Roads with Limited Alternate Routes

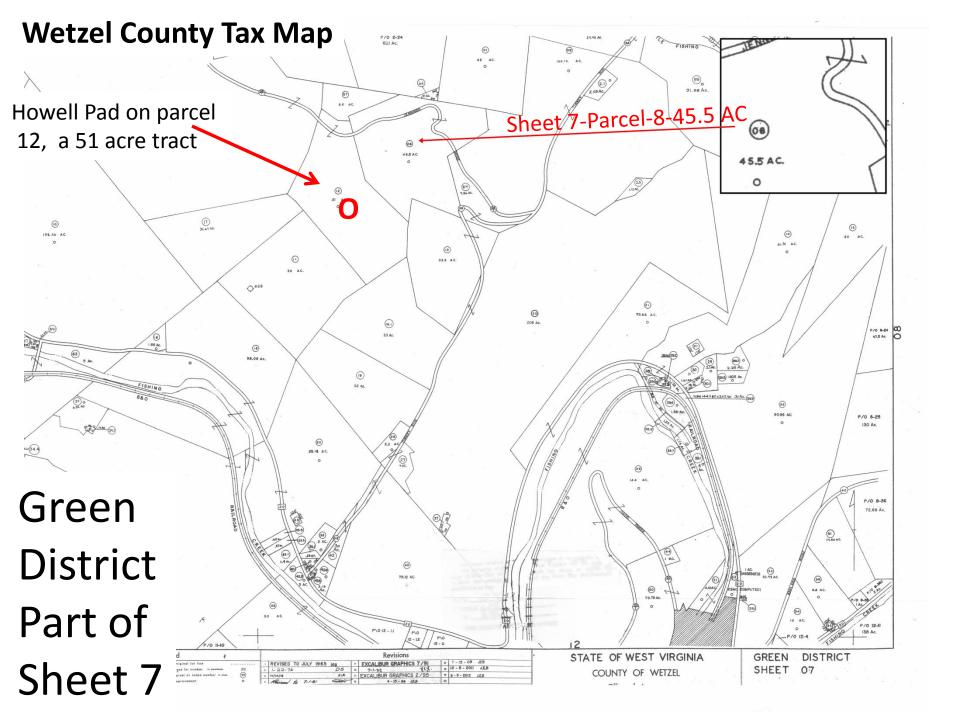


New Place mark in Google Earth labeled **Stone Howell**



White lines shown here in Google Earth are roadways. Compare with county Highway maps.

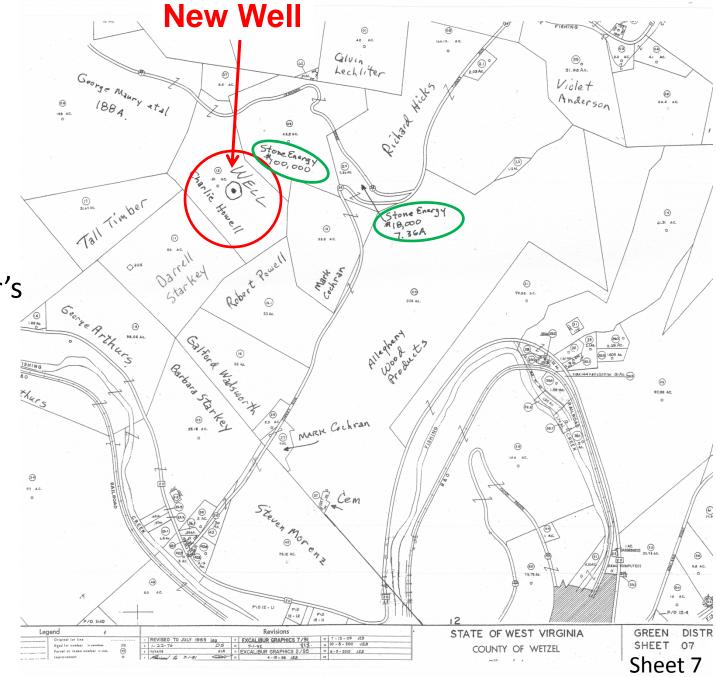




Wetzel County TAX MAP

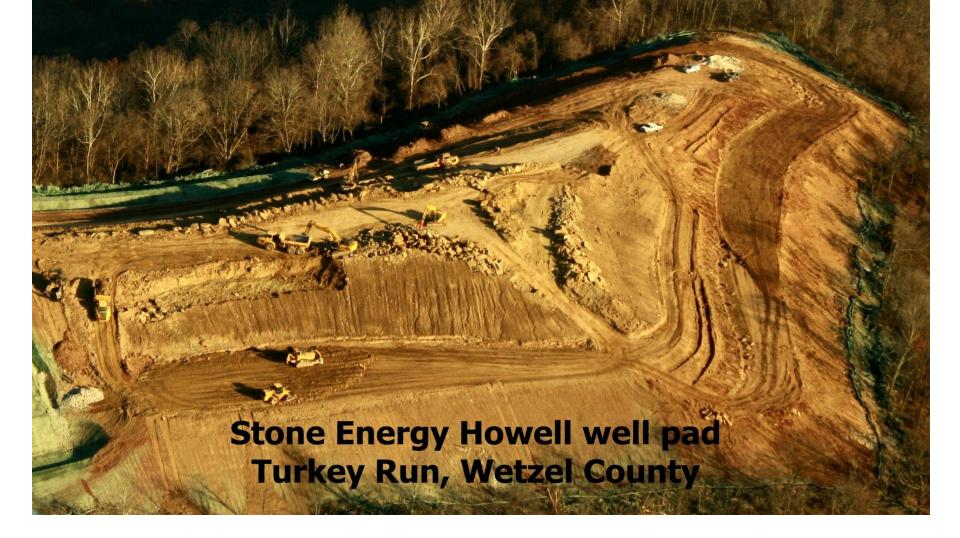
Property Owner's names added.

Green District Part of Sheet 7



Well Pad Site Work

Photo by SkyTruth Nov. 2012



From WVDEP-OOG Order Well Work Application

Horizontal 6 A Well Applications Contents will include:

Checklist for required items

DOH bonding details

Gas company contacts

Vendor contact list

Water testing contacts list

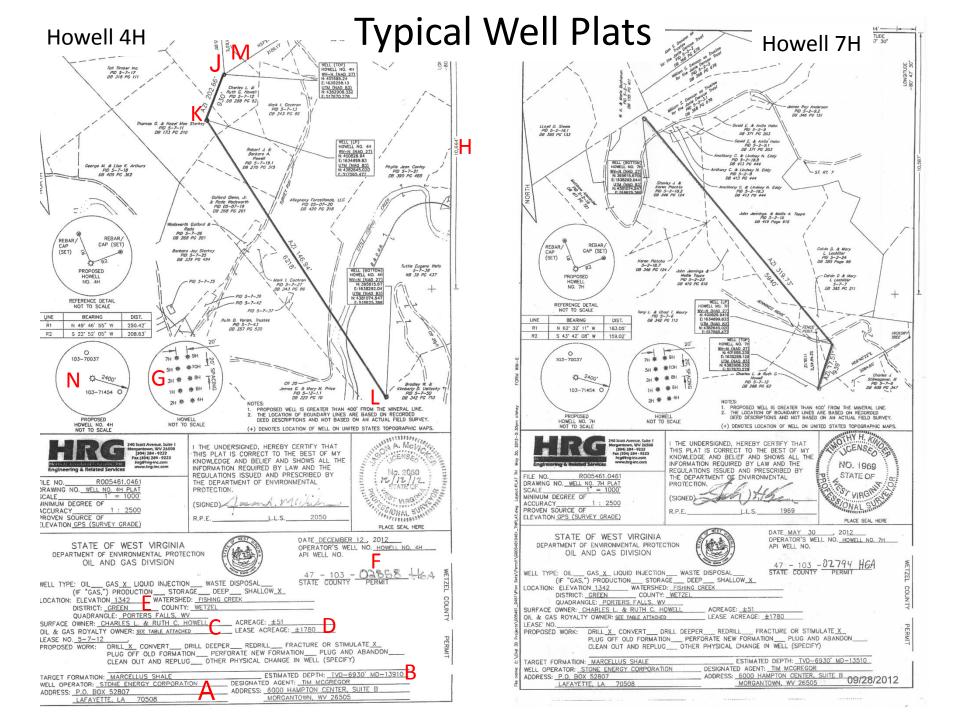
Well plat for one well

Well located on topographic

Mineral rights owners

Total disturbed acres

Well pad acres Waste disposal details Water management plan Coal company objection Well bore schematic Proof of public notice List of Frac additives MSDS sheets Cementing & Casing info



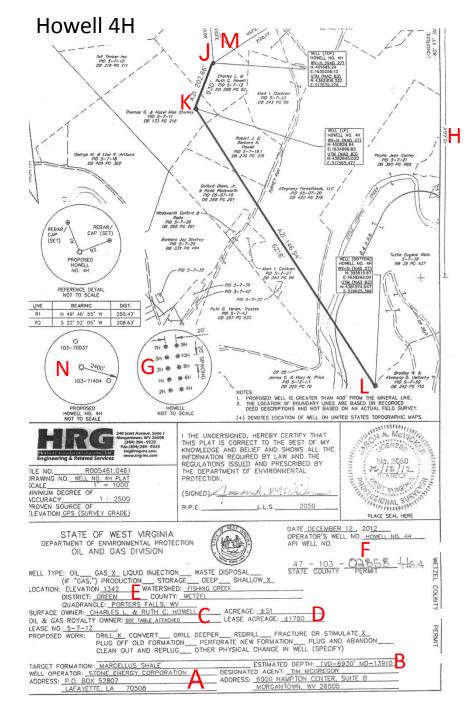
Typical Information Given On Most Well Plats

Well Plats are based on Tax Map background

- A. Well operator name and address
- B. Depth & length of bore
- C. Surface and royalty owner
- D. Surface owner acres & lease acres
- E. County, watershed, quad, district

F. API number

- G. Relative location of wells on pad
- H. Reference to topographic maps
- I. Not used
- J. Top hole on well pad
- K. Landing point or turn point
- L. Bottom hole, end of lateral bore
- M. Initial survey reference tie points
- N. Location of known, preexisting wells

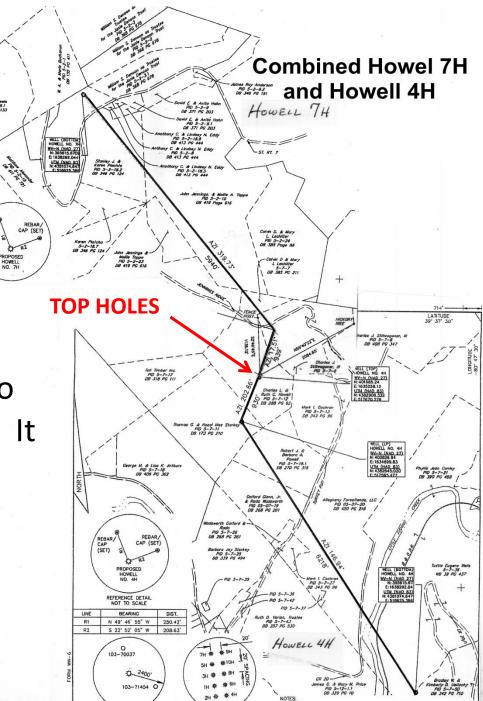


For **Stone Energy** wells, even numbered wells leave well pad top hole and tend to go in SE direction.

Hoyd D. Steela PID 5-2-18.1

REBAR, CAP (SET)

Odd numbered wells tend to be bored in a NW direction. It is possible to cut and paste multiple well plats to see overall coverage of all the horizontal bores.



Property Access Permission Form

TO WHOM IT MAY CONCERN:

Notification is hereby given that I/WE			
(hereinafter "OWNER"), have granted	_ (hereinafter	"permittee")	permission,
except as restricted below, to be on any and all property that I/WE own in Wetzel Co	ounty, WV. Th	nis permission	extends to
permittee's associates and agents who may accompany them as they deem appropriat	te.		

The permittee is requested to observe, monitor and document, in as much detail as possible, any illegal hunting, unapproved firewood or timber cutting, illegal dumping, vandalism, or unauthorized trespass. Permittee shall document all environmental impacts such as spills, air pollution, land slips, and all actions by other persons and to report to OWNER on such activities. They are permitted to take air and water samples, still photographs and record audio and video, and make or take other records or information, provided that, upon OWNER'S request, permittee must provide copies of any test results and copies of photos and recordings for OWNER'S unrestricted use.

This permission does NOT include access to any buildings, barns, sheds, or dwellings. All access gates that have been installed by OWNER must be kept open or closed, locked or unlocked, as OWNER directs. This agreement will be in effect until modified or revoked, which may unilaterally be done by <u>OWNER AT ANY TIME, FOR ANY REASON</u>, by written notification given at the provided address. By having granted this permission, OWNER does not extend any assurance that the premises are safe for any purpose; does not confer upon any such visitor a duty of care; nor does OWNER assume any responsibility for, or incur liability for, any injury to property or person caused by any act or omission of such persons.

Your Rights and Remedies When Stopped or Confronted for Photography

Updated November 2006

About this Guide

Confrontations that impair the constitutional right to make images are becoming more common. To fight the abuse of your right to free expression, you need to know your rights to take photographs and the remedies available if your rights are infringed.

The General Rule

The general rule in the United States is that anyone may take photographs of whatever they want when they are in a public place or places where they have permission to take photographs. Absent a specific legal prohibition such as a statute or ordinance, you are legally entitled to take photographs. Examples of places that are traditionally considered public are streets, sidewalks, and public parks.

Property owners may legally prohibit photography on their premises but have no right to prohibit others from photographing their property from other locations. Whether you need permission from property owners to take photographs while on their premises depends on the circumstances. In most places, you may reasonably assume that taking photographs is allowed and that you do not need explicit permission. However, this is a judgment call and you should request permission when the circumstances suggest that the owner is likely to object. In any case, when a property owner tells you not to take photographs while on the premises, you are legally obligated to honor the request.

Some Exceptions to the Rule

There are some exceptions to the general rule. A significant one is that commanders of military installations can prohibit photographs of specific areas when they deem it necessary to protect national security. The U.S. Department of Energy can also prohibit photography of designated nuclear facilities although the publicly visible areas of nuclear facilities are usually not designated as such.

Members of the public have a very limited scope of privacy rights when they are in public places. Basically, anyone can be photographed without their consent except when they have secluded themselves in places where they have a reasonable expectation of privacy such as dressing rooms, restrooms, medical facilities, and inside their homes.

Permissible Subjects

Despite misconceptions to the contrary, the following subjects can almost always be photographed lawfully from public places:

- accident and fire scenes children
- celebrities

bridges and other infrastructure residential and commercial buildings industrial facilities and public utilities transportation facilities (e.g., airports) Superfund sites criminal activities law enforcement officers

Who Is Likely to Violate Your Rights

Most confrontations are started by security guards and employees of organizations who fear photography. The most common reason given is security but often such persons have no articulated reason. Security is rarely a legitimate reason for restricting photography. Taking a photograph is not a terrorist act nor can a business legitimately assert that taking a photograph of a subject in public view infringes on its trade secrets.

On occasion, law enforcement officers may object to photography but most understand that people have the right to take photographes and do not interfere with photographers. They do have the right to keep you away from areas where you may impede their activities or endanger safety. However, they do not have the legal right to prohibit you from taking photographs from other locations.

They Have Limited Rights to Bother, Question, or Detain You

Although anyone has the right to approach a person in a public place and ask questions, persistent and unwanted conduct done without a legitimate purpose is a crime in many states if it causes serious annoyance. You are under no obligation to explain the purpose of your photography nor do you have to disclose your identity except in states that require it upon request by a law enforcement officer.

If the conduct goes beyond mere questioning, all states have laws that make coercion and harassment criminal offenses. The specific elements vary among the states but in general it is unlawful for anyone to instill a fear that they may injure you, damage or take your property, or falsely accuse you of a crime just because you are taking photographs.

Private parties have very limited rights to detain you against your will and may be subject to criminal and civil charges should they attempt to do so. Although the laws in most states authorize citizen's arrests, such authority is very narrow. In general, citizen's arrests can be made only for felories or crimes committed in the person's presence. Failure to abide by these requirements usually means that the person is liable for a tort such as false imprisonment.

They Have No Right to Confiscate Your Film

Sometimes agents acting for entities such as owners of industrial plants and shopping malls may ask you to hand over your film. Absent a court order, private parties have no right to confiscate your film. Taking your film directly or indirectly by threatening to use force or call a law enforcement agency can constitute criminal offenses such as theft and coercion. It can likewise constitute a civil tort such as conversion. Law enforcement officers may have the authority to seize film when making an arrest but otherwise must obtain a court order.

Your Legal Remedies If Harassed

If someone has threatened, intimidated, or detained you because you were taking photographs, they may be liable for crimes such as kidnapping, coercion, and theft. In such cases, you should report them to the police.

You may also have civil remedies against such persons and their employers. The torts for which you may be entitled to compensation include assault, conversion, false imprisonment, and violation of your constitutional rights.

Other Remedies If Harassed

If you are disinclined to take legal action, there are still things you can do that contribute to protecting the right to take photographs.

 Call the local newspaper and see if they are interested in running a story. Many newspapers feel that civil liberties are worthy of serious coverage.
 Write to or call the supervisor of the person involved, or the legal or public relations department of the entity, and complain about the event. (3) Make the event publicly known on an Internet forum that deals with photography or civil rights issues.

How to Handle Confrontations

Most confrontations can be defused by being courteous and respectful. If the party becomes pushy, combative, or unreasonably hostile, consider calling the police. Above all, use good judgment and don't allow an event to escalate into violence.

In the event you are threatened with detention or asked to surrender your film, asking the following questions can help ensure that you will have the evidence to enforce your legal rights:

1. What is the person's name?

2. Who is their employer?

3. Are you free to leave? If not, how do they intend to stop you if you decide to leave? What legal basis do they assert for the detention?

4. Likewise, if they demand your film, what legal basis do they assert for the confiscation?

Disclaimer

This is a general education guide about the right to take photographs and is necessarily limited in scope. For more information about the laws that affect photography, I refer you to the second edition of my book, *Legal Handbook for Photographers* (Amherst Media, 2006).

This guide is not intended to be legal advice nor does it create an attorney client relationship. Readers should seek the advice of a competent attorney when they need legal advice regarding a specific situation.

published by:

ВЕЛТ Р. КЛАСЕЗ II Аттонист ит Law 6065 S.W. Намятон Streat, Suite 200 Ромпцио, Олерон 97223 www.kraces.com

© 2003 Bert P. Krages II

This EQT well pad shows what happens when there are inadequate or unenforced state regulations. This well was permitted before the Dec. 2011 new well pad restrictions went into effect.

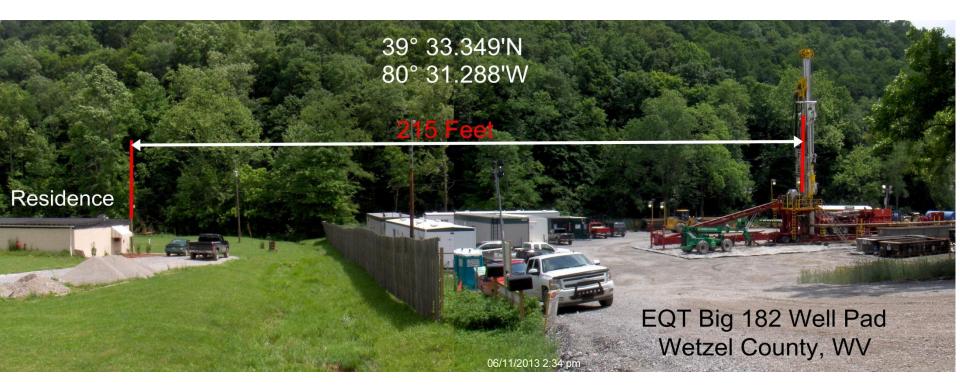


Photo June, 2013 WJH