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 west virginia department of environmental protection
 

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Office of Oil and Gas  
 601 57<sup>th</sup> Street, S.E.  
 Charleston, WV 25304  
 (304) 926-0450  
 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Tuesday, January 15, 2019  
 WELL WORK PLUGGING PERMIT  
 Horizontal Plugging

CHEVRON APPALACHIA, LLC  
 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HAZLETT 1H  
 47-051-01393-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin  
 Chief

Operator's Well Number: HAZLETT 1H  
 Farm Name: HAZLETT, MICHAEL C. & FLD  
 U.S. WELL NUMBER: 47-051-01393-00-00  
 Horizontal Plugging  
 Date Issued: 1/15/2019

I

47-057-01393P

01/18/2019

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date \_\_\_\_\_, 20\_\_\_\_\_  
2) Operator's \_\_\_\_\_  
Well No. Hazlett 1H 47-051-01393 P **01/18/2019**  
3) API Well No. 47-051 - 01393

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_ / Gas  / Liquid injection \_\_\_\_ / Waste disposal \_\_\_\_ /  
(If "Gas, Production  or Underground storage \_\_\_\_ ) Deep \_\_\_\_ / Shallow \_\_\_\_

5) Location: Elevation 1155.39 Watershed Little Grave Creek  
District Union County Marshall Quadrangle Moundsville WV 7.5

6) Well Operator Chevron Appalachia, LLC 7) Designated Agent \_\_\_\_\_  
Address 700 Cherrington Parkway Address \_\_\_\_\_  
Coraopolis, PA 15108

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name James Williamson Name \_\_\_\_\_  
Address PO Box 44 Address \_\_\_\_\_  
Moundsville, WV 26041

10) Work Order: The work order for the manner of plugging this well is as follows:


**See Attached**

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WV Department of  
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 9/2/2018

**Objective:** Set cased hole cement plugs adjacent to all permeable hydrocarbon bearing zones for sufficient zonal isolation  
 This along w/ CMT to surface on primary production cement job leaves CMT across all annuli of wellbore at these zones  
 A CMT plug set across a hydrocarbon containing permeable bearing zone must extend 100' above formation top  
 Set CMT plugs in +/- 1,000' intervals, WOC, then use tag method with workstring to verify placement

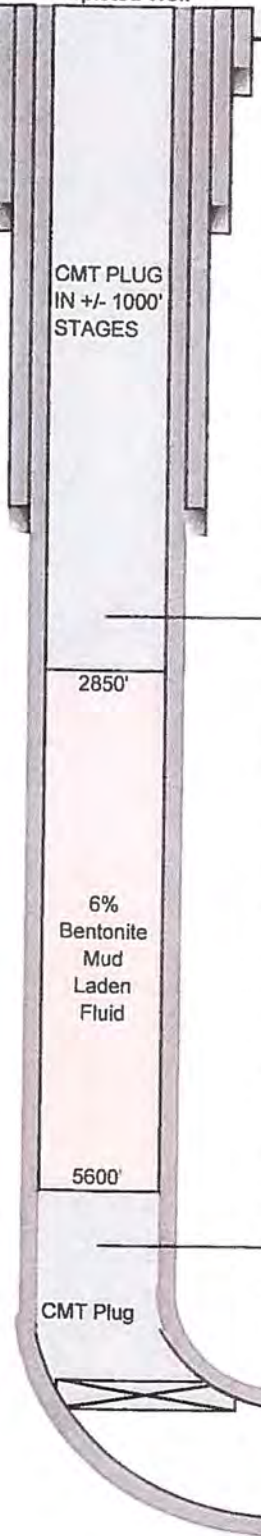
Elevation: GL: 1136'; KB: 1155'

API # 47-051-01393

**GEOLOGIC PROGNOSIS**

FORMATION	Description	GL*
Waynesburg (coal)		286 ft
Sewickley (coal)		546 ft
Redstone (coal)		601 ft
Pittsburgh (coal)		626 ft
Conemaugh (claystone / red beds)		633 ft
Cow Run (sandstone) gas/ oil		906 ft
Salt Sand (sandstone) gas/ oil		1336 ft
Maxton (sandstone) gas/ oil		1601 ft
Greenbrier (limestone) gas/ oil		1621 ft
Big Injun (sandstone) gas/ oil		1656 ft
Berea (sandstone) gas/ oil		2326 ft
Gordon Sand (sandstone) gas/ oil		2776 ft
Rhinestreet (organic shale) gas		5711 ft
Middlesex (organic shale) gas		5976 ft
Burket/ Geneseo (organic shale) gas		6036 ft
Tully (limestone)		6076 ft
Hamilton (shale)		6106 ft
Marcellus (organic shale) gas		6186 ft

**Completed Well**



Note: All depths MD unless noted

- 22 7/8" Hole @ 360'; Cmt'd w/ 595 sxs - Circ
- 22 3/4" Hole @ 410'; 20" 94# J-55 Surface Csg @ 397' Cmt'd w/ 375 sxs - Circ to SURFACE
- 13 3/8" 54.5# J-55 Surface Csg @ 920' Cmt'd w/ 644 sxs - Circ to SURFACE
- Cement mixed in +/- 1,000' increments. WOC. Tag.
- 9 5/8" 36# K-55 Intermediate Csg @ 2313' Cmt'd w/ 700 sxs - Circ
- Barrier #2**
  - CMT from 2,850' to SURFACE
  - Cement base > 50' below Gordon Sand Top
  - Serves as 2nd barrier b/w Marcellus and surface
  - Prevents crossflow b/w Gordon & Rhinestreet
  - Cement column to surface isolates remaining formations containing gas, oil, water, coal
  - FW zone isolation criteria met by having at least 100' of CMT below base of FW (extends to SURF)
- 6% Bentonite Mud Laden Fluid
- 5600'
- Barrier #1: mechanical+CMT OR CMT**
  - Spot +/- 1,000' plug above top perforations OR
  - Set CIBP at deepest obtainable bottom, but not to exceed Marcellus formation top at 6,186' MD GL
  - Pressure test same to 500 psi over Marcellus FG
  - Pressure test duration = 15 min

\*Depths listed have been corrected to ground level  
 Adjust set depths per RKB of rig/unit

PH 6230' - Kick Off Cmt Plug Set from 6228' - 5360'  
 5 1/2" 20# P-110 Csg @ 10889'  
 Cmt'd w/ 1794 sxs - Circ  
 50 bbls of cmt to surface

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TD: 10,933'

## Proposed procedure:

1. MIRU all P&A rig equipment
2. Check pressure on all casing and tubing strings. Bleed off pressure and load well with kill weight fluid (+/- 10.0 ppg CaCl brine)
  - a. Vol to bottom perf = 240 bbls
3. R/U slickline. Set plug in profile nipple. Pressure test tubing to 1000 psi for 15 minutes. POOH with plug.
  - a. Profile nipple 1.875" at 5,884'
  - b. Profile nipple 2.0" at 6,385'
  - c. EOT at 6,417'
4. Set BPV inside tubing hanger. N/D production tree. N/U BOP to 7-1/16 10K flange top. Test BOP components to 250 psi low/ 5,000 psi high.
5. Establish mechanical barrier OR cement barrier above production perforations at 6,500'
  - a. Job steps for setting mechanical barrier
    1. TOH standing back 2-3/8" production tubing if pressure test was successful.
    2. MIRU E-line, test lubricator to 1000 psi
    3. RIH with gauge ring to determine obtainable bottom
      1. Communicate obtainable bottom to DEP OGI
      2. Top of Marcellus formation at 6378' MD
      3. Well @ 75 degree inclination at 6377'
    4. Set CIBP at previously determined obtainable bottom, not to be set below Marcellus formation top
  - b. Job steps for setting cement barrier (If tubing tested and can be used as workstring):
    1. P/U additional tubing and space out string above perforations to 6,500' MD
    2. Mix and pump +/- 1,000' of cement in 500' intervals up to KOP at +/- 5,550' MD
    3. Pull out of plug, reverse circulate tubing clean, WOC
6. Load casing with FW and test barrier for 30 minutes. Test pressure to be 500 psi over FG of Marcellus per barrier standard. Calculate by adding surface pressure during previous bullheading, hydrostatic pressure of fluid column, and 500 psi.
7. Conduct CBL run from top of barrier to surface. Report results to DEP OGI, engineer, superintendent. This is verification of cement top despite drilling reports showing cement returns to surface on production cement job.
  - a. Identify any areas of free pipe that would require perf/squeeze
  - b. Identify any areas of free pipe that would yield casing cut/pull potential

## Cement plug setting objective:

- a. Set cased hole cement plugs adjacent to all permeable hydrocarbon bearing zones for sufficient zonal isolation
  - b. This along w/ CMT to surface on primary production cement job leaves CMT across all annuli of wellbore at these zones
  - c. A CMT plug set across a hydrocarbon containing permeable bearing zone must extend 100' above formation top
  - d. Mud-laden fluid (6% bentonite mixture) to be set between cement plugs
2. Mix and pump cement from barrier to +/- 5,600' (if not done so previously)
    - a. Base of plug at top of perforations or CIBP if mechanical barrier was set
    - b. Top of plug minimum of 100' above Rhinestreet formation. WOC. Tag plug.

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3. Pump mud-laden fluid (6% bentonite) from 5,600' to 2,850 (+/- 50' below Gordon Sand formation)
4. Mix and pump cement from 2,850' to +/- 15' from surface. WOC to reach compressive strength.
  - a. Base of plug +/- 50' below Gordon Sand formation
  - b. Top of plug at surface. Confirm wellhead cutoff depth with facilities engineering group and bring TOC no higher than this depth.
  - c. Cement plug isolates formations containing oil, gas, coal, or water per geologic prognosis).
5. Cut, cap, and mark well per procedure

### Geology & Proposed Cement Plugging Schedule

Formation	Description	MD (GL)	Notes	Plugging Proposal
Washington	(ss, sh, coal)	0	freshwater	Cement from surface to 2850'
Waynesburg	(coal)	286		
Sewickley	(coal)	546		
Redstone	(coal)	601		
Pittsburgh	(coal)	626	possible gas/ lost circ.	
Conemaugh "red beds"	(claystone)	633	claystone	
Cow Run	(sandstone)	906	gas/ oil	
Salt Sand	(sandstone)	1,336	gas/ oil	
Maxton	(sandstone)	1,601	gas/ oil	
Big Injun	(sandstone)	1,621	gas/ oil	
Berea	(sandstone)	1,656	gas/ oil	
Gordon Sand	(sandstone)	2,326	gas/ oil	
		2,776		Mud laden fluid: 6% Bentonite from 2,850' to 5,600'
undiff. silt & shale	(shale/ siltstone)			Cement from 5,600' to CIBP above Marcellus formation
Rhinestreet	(organic shale)	2,796	gas	
Middlesex	(organic shale)	5,711	gas	
Burket/ Geneseo	(organic shale)	5,976	gas	
Tully	(limestone)	6,036		
Hamilton	(shale)	6,076		
Marcellus	(organic shale)	6,106	gas	

\*Note: depths are from ground level and should be adjusted for RKB of rig/unit

### Wellhead Cutoff and Monument Installation

1. Cut off wellhead
2. Install monument (pipe to surface)
3. API well identification number shall be stamped on monument

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Well: Hazlett #1H Quad: Moundsville 7,5', Washington Dist. Updated: 9/11/18

County: Marshall State: West Virginia Status: Producing

API # 47-051-01393

Note: All depths MD unless noted

Completed Well

Build Location: Start: 12/6/10 End: 1/3/11

Spud: 02/01/2011

Release Rig: 03/08/2011

Completed:

First Production:

Drilling Method: Air / WBM / OBM

Rig - UDI #59 (KB: 12')

Ziegenfuss Drld Cond & Surf Hole 01/25/11

Bottom Hole Location

NAD 83: Lat: 39° 57' 06.04" N

Long: 80° 42' 20.12" W

KOP: 5699'

Target Centerline: 6185' TVD

Penetrate Marcellus: 6378' MD (6155' TVD) VS 389'

Maximum Deflection: 17.8' @ 6218'

Maximum Angle: 91.5° @ 10560'

Displacement: 4932' S 41.30 E

Landing Point: 6694' MD (6185' TVD) VS 703'

MWD Gamma

Open Hole Logs Run

24" Conductor Csg @ 120'

22 7/8" Hole @ 360'

Cmt'd w/ 595 sxs - Circ

DO Cmt Plug 358' - 140' (Bit Stuck in Hole)

22 3/4" Hole @ 410'

20" 94# J-55 Surface Csg @ 397'

Cmt'd w/ 375 sxs - Circ

17 1/2" Hole @ 935'

13 3/8" 54.5# J-55 Surface Csg @ 920'

Cmt'd w/ 644 sxs - Circ

Tight Spot @ 1375'

12 1/4" Hole @ 2315'

9 5/8" 36# K-55 Intermediate Csg @ 2313'

Cmt'd w/ 700 sxs - Circ

8 3/4" Hole @ 10933' MD (6241' TVD)

Marcellus: Top @: 6378'

7th Stage Perfs: 7,055' - 6,500' 80 Holes

6th Stage Perfs: 7,687' - 7,132' 80 Holes

5th Stage Perfs: 8,317' - 7,764' 80 Holes

4th Stage Perfs: 8,951' - 8,396' 80 Holes

3rd Stage Perfs: 9,583' - 9,028' 80 Holes

2nd Stage Perfs: 10,215' - 9,660' 80 Holes

1st Stage Perfs: 10,847' - 10,292' 80 Holes

EOT at 6,417'; 2-3/8" tubing

TD: 10,933'

PH 6230' - Kick Off Cmt Plug Set from 6228' - 5360'

5 1/2" 20# P-110 Csg @ 10889'

Cmt'd w/ 1794 sxs - Circ

OCT 30 2018

## Hazlett #1H Plugging Procedure

Chevron U.S.A. Inc.

<b>Well:</b>	Hazlett 1H	<b>GL Elevation:</b>	1155'
<b>API #:</b>	47-051-01393	<b>Total Depth:</b>	10,933'
<b>County:</b>	Marshall	<b>State:</b>	West Virginia

## Wellbore Details:

- Top of Marcellus at 6,378'
- KOP at 5550'
- 25 degree inclination at 5837' MD / 5824' TVD
- 50 degree inclination at 6123' MD / 6048' TVD
- 75 degree inclination at 6377' MD / 6163' TVD
- As drilled surveys available upon request

Reservoir	Perforations (MD)
7th Stage Perfs:	7055 - 6500
6th Stage Perfs:	7687 - 7132
5th Stage Perfs:	8317 - 7764
4th Stage Perfs:	8951 - 8396
3rd Stage Perfs:	9583 - 9028
2nd Stage Perfs:	10215 - 9660
1st Stage Perfs:	10847 - 10292

Well Specs	Pipe O.D.	Hole Size	Weight	Estimated TOC	Depth
Conductor Casing:	24"	--	--	Surface	120' MD
Fresh Water String:	20"	22-3/4"	94#	Surface	397' MD
Coal String:	13-3/8"	17-1/2"	54.5#	Surface	920' MD
Intermediate Casing:	9-5/8"	12-1/4"	36#	Surface	2313' MD
Production Casing:	5-1/2"	8-3/4"	20#	50 bbls returned to surface	10,889' MD / 6,244' TVD
Production Tubing:	2-3/8"		4.7#		6417'

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1) Date: 01/18/2019  
2) Operator's Well Number  
Hazlett 1H

3) API Well No.: 47 - 051 - 01393

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**


4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Florence Irene Hazlett</u>	Name _____
Address <u>648 Markey Hill Lane</u>	Address _____
<u>Glen Dale, WV 26038</u>	
(b) Name <u>Michael C Hazlett</u>	(b) Coal Owner(s) with Declaration
Address <u>648 Markey Hill Lane</u>	Name <u>Consol Mining Company LLC</u>
<u>Glen Dale, WV 26038</u>	Address <u>1000 Consol Energy Drive</u>
	<u>Canonsburg, PA 15317</u>
(c) Name <u>Loretta Kay Wallace</u>	Name _____
Address <u>1485 Missy Court</u>	Address _____
<u>Hamilton, OH 45013</u>	
6) Inspector <u>James Williamson</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 44</u>	Name _____
<u>Moundsville, WV 26041</u>	Address _____
Telephone <u>304-552-3874</u>	

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

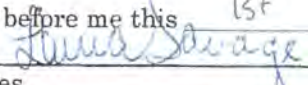
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator	<u>Chevron Appalachia, LLC</u>	RECEIVED Office of Oil and Gas
By:	<u>Branden Weimer</u> 	<u>OCT 30 2018</u>
Its:	<u>Permitting Team Lead</u>	
Address	<u>700 Cherrington Parkway</u>	WV Department of Environmental Protection
	<u>Coraopolis, PA 15108</u>	
Telephone	<u>412-865-1533</u>	

Commonwealth of Pennsylvania  
County of Allegheny

Subscribed and sworn before me this 1st day of October 2018



Notary Public

Commonwealth of Pennsylvania - Notary Sea Laura Savage, Notary Public Allegheny County My commission expires September 17, 2022 Commission number 1285773 Member, Pennsylvania Association of Notaries
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My Commission Expires September 17, 2022

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

**SURFACE OWNER WAIVER**

47-051-01393 P

01/18/2019

Operator's Well  
Number

Hazlett 1H

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

Soretha Kaye Wallace Date 10-7-18 Name  
Signature By

FOR EXECUTION BY A CORPORATION,

RECEIVED  
Office of Oil and Gas  
OCT 30 2018  
Date  
Signature  
Date  
WV Department of  
Environmental Protection



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC. OP Code 49449935

Watershed (HUC 10) Little Grave Creek Quadrangle Cameron 7.5"

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Branden Weimer

Company Official Title Permitting Team Lead

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Office of Oil and Gas  
OCT 30 2018  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 1st day of October, 2018 Commonwealth of Pennsylvania  
County of Allegheny

[Signature]

Notary Public

My commission expires September 17, 2022

Commonwealth of Pennsylvania - Notary Seal  
Laura Savage, Notary Public  
Allegheny County  
My commission expires September 17, 2022  
Commission number 1285773  
Member, Pennsylvania Association of Notaries

Proposed Revegetation Treatment: Acres Disturbed 15.4 Prevegetation pH Per soils testing report

Lime 3 Tons/acre or to correct to pH unless otherwise noted in soils report

Fertilizer type <sup>10-20-20</sup> [Symbol]

Fertilizer amount 300 lbs/acre

Mulch 3,5 for winter stabilization Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

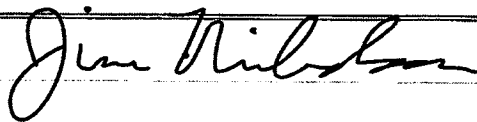
See Attached

See Attached

Attach:  
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:



Comments:

Title: Oil & Gas Inspector

Date: 10/2/2018

Field Reviewed?  Yes  No

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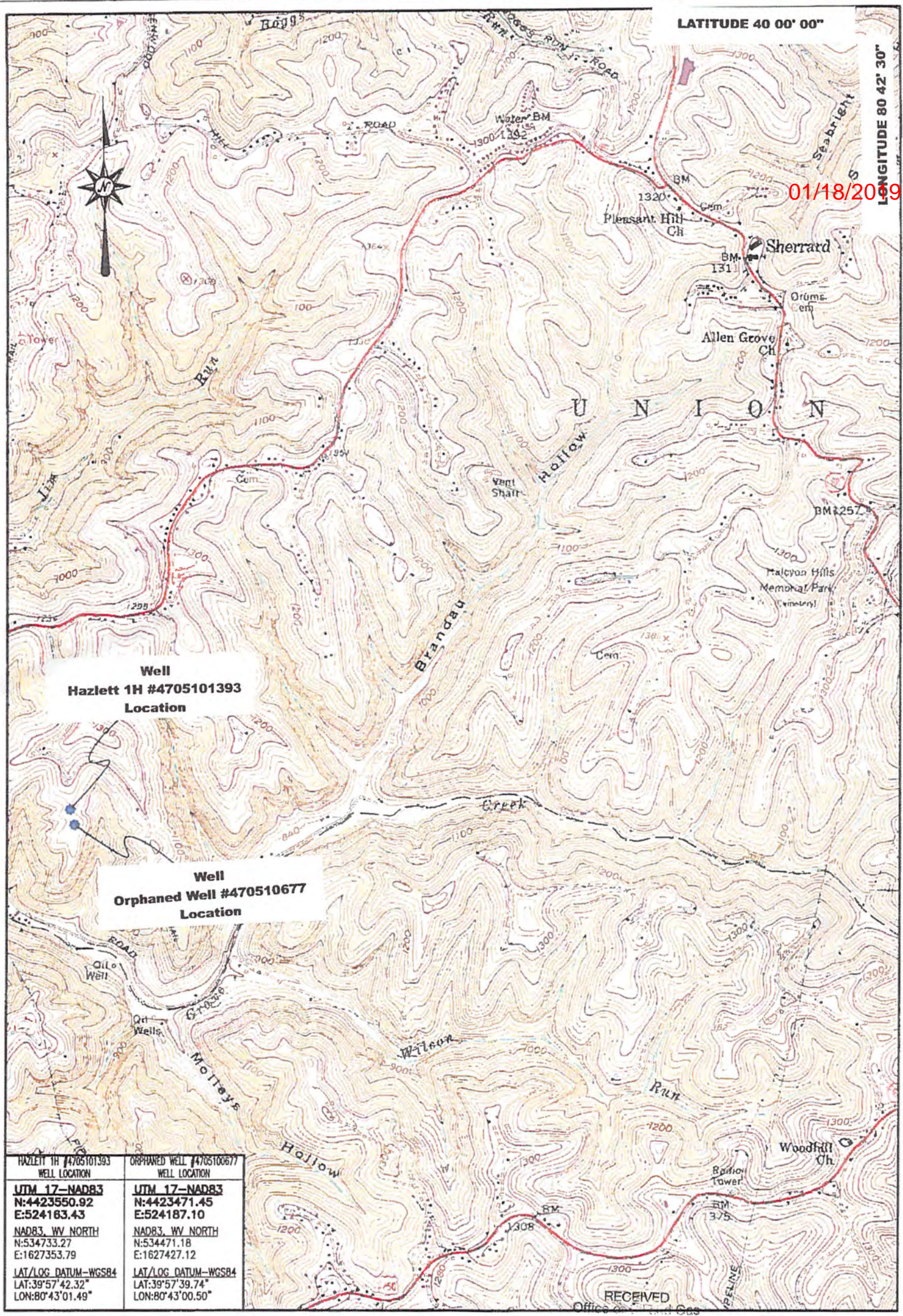
SEED MIXTURE				
Temporary			Permanent	
Seed Type		Lbs/Acre	Seed Type	Lbs/Acre
Annual Ryegrass	or	50	Hayfield, Pastureland, & Cropland	
Winter Wheat		75	Orchard Grass	80
			Timothy	80
			Birdsfoot - Trefoil	20
			Ladino Clover	20

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LATITUDE 40 00' 00"

LONGITUDE 80 42' 30"

01/18/2019



**Well**  
**Hazlett 1H #4705101393**  
**Location**

**Well**  
**Orphaned Well #470510677**  
**Location**

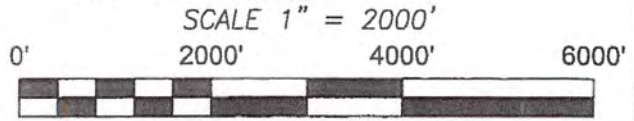
HAZLETT 1H #4705101393 WELL LOCATION	ORPHANED WELL #470510677 WELL LOCATION
UTM 17-NAD83 N:4423550.92 E:524163.43	UTM 17-NAD83 N:4423471.45 E:524187.10
NAD83, WV NORTH N:534733.27 E:1627353.79	NAD83, WV NORTH N:534471.18 E:1627427.12
LAT/LOG DATUM-WGS84 LAT:39°57'42.32" LON:80°43'01.49"	LAT/LOG DATUM-WGS84 LAT:39°57'39.74" LON:80°43'00.50"



**LOCATION MAP**  
 SEPTEMBER 27, 2018

HAZLETT 1H #01393  
 MOUNDSVILLE QUADRANGLE  
 WEST VIRGINIA

OCT 30 2018  
 WV Department of  
 Environmental Protection



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-051-01393 WELL NO.: 1

FARM NAME: Hazlett

RESPONSIBLE PARTY NAME: Chevron Appalachia, LLC

COUNTY: Marshall DISTRICT: Union

QUADRANGLE: Moundsville, WV 7.5'

SURFACE OWNER: Florence Irene Hazlett, Life Estate

ROYALTY OWNER: Donald Boyd Yoho, Kelly Ann Wease, Zane Edward Nelson, Nancy A. Baker, Larry John Mccracken, Pamela Ann Mccracken, Robert Jay Mccracken, Florence Hazlett, Et. A

UTM GPS NORTHING: 4423550.92

UTM GPS EASTING: 524163.43 GPS ELEVATION: 1148

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS  : Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature

Construction Permitting  
Title

10/1/2018  
Date