



---

west virginia department of environmental protection

---

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)

Friday, February 14, 2020  
WELL WORK PERMIT  
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC  
700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108

Re: Permit approval for HAZLETT M10H  
47-051-02300-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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 M10H  
Farm Name: IRENE HAZLETT - LIFE  
U.S. WELL NUMBER: 47-051-02300-00-00  
Horizontal 6A New Drill  
Date Issued: 2/14/2020

Promoting a healthy environment.

# PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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

---

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: \_\_\_\_\_

## PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov).

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: Hazlett Pad A      49449935      Marshall      Union      Moundsville, WV  
Operator ID      County      District      Quadrangle

2) Operator's Well Number: M10H      Well Pad Name: Hazlett Pad A

3) Farm Name/Surface Owner: Hazlett      Public Road Access: CR 10 Markey Lane

4) Elevation, current ground: 1148'      Elevation, proposed post-construction: 1144'

5) Well Type (a) Gas       Oil \_\_\_\_\_      Underground Storage \_\_\_\_\_

Other \_\_\_\_\_

(b) If Gas Shallow       Deep \_\_\_\_\_

Horizontal  \_\_\_\_\_

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus; 6,164 ft below GL; 50 ft thick; pore pressure gradient 0.64 PSI/ft

8) Proposed Total Vertical Depth: 6,164' ✓

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12,475' ✓

11) Proposed Horizontal Leg Length: 5,812' ✓

12) Approximate Fresh Water Strata Depths: 477 ft below GL

13) Method to Determine Fresh Water Depths: Deepest known water well w/in 1 mi radius

14) Approximate Saltwater Depths: Potential Brine @ 630 ft, 1283 ft, 1302 ft, 1654 ft, 1731 ft and 2230 ft below GL

15) Approximate Coal Seam Depths: Pittsburgh Coal top @ 630 ft below GL

16) Approximate Depth to Possible Void (coal mine, karst, other): 630 ft below GL

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?      Yes \_\_\_\_\_      No

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

DEC 06 2019

18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New			40'	40' ✓	CTS
Fresh Water	20"	New	J-55	94	527'	527' ✓	CTS
Coal	13-3/8"	New	J-55	54.5	724'	724' ✓	CTS
Intermediate	9-5/8"	New	J-55	40	2,116'	2,116' ✓	CTS
Production	5-1/2"	New	P-110	20	12,475'	12,475'	500' below 9-5/8" shoe
Tubing							
Liners							

*Handwritten:* 11/20/19

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"					
Fresh Water	20"	26"	0.438"	2,110		Class A	1.2
Coal	13-3/8"	17-1/2"	0.38"	2,730	400	Class A	1.19
Intermediate	9-5/8"	12-3/8" to 12-1/4"	0.395"	3,950	500	Class A	1.19
Production	5-1/2"	8-1/2" to 8-3/4"	0.361"	14,360	2050	Class A, G, or H	1.25
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

RECEIVED  
Office of Oil and Gas

DEC 06 2019

*July 11/20/19*

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,164'. Drill horizontal leg.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

9525 bbl fluid - 400,000 lbm sand/stage - 9,400 anticipated max psi - 100 bpm anticipated max rate

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 25.6

22) Area to be disturbed for well pad only, less access road (acres): 15

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/ stop collar & (1) per jt to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts; Production String: (1) centralizer every jt from TMD to planned TOC & (1) every other joint from planned TOC to surface.

24) Describe all cement additives associated with each cement type:

For the Water String the blend will contain class A cement, 3% CaCl<sub>2</sub>, and flake. The coal will contain class A cement, 3% CaCl<sub>2</sub>, Salt, and flake. The intermediate will contain class A cement, 3% CaCl<sub>2</sub>, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

Air sections ensured to be clean via air circulation once TD is reached. Fluid sections will be circulated a minimum of 2 bottoms up once casing point has been reached and until uniform mud properties are achieved.

RECEIVED  
Office of Oil and Gas

\*Note: Attach additional sheets as needed.

DEC 06 2019

**Cement Additives**

The Water String the blend will contain class A cement, 3% CaCl<sub>2</sub>, and flake.

The intermediate will contain class A cement, 10% CaCl<sub>2</sub>, Salt, and flake.

The Production cement will have a lead and tail cement.

The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder.

The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection

# Hazlett M10H

Clay Twp, Marshall Co, WV		Ground Level Elev. (ft above SL):		1148				
11/11/2019 12:49		**All depths below reference GL**						
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN FMC UH-S 13 5/8"	HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)				
Core Barrel / Auger	2 Bowspring per Jt	30" Conductor	40	40	INC AZM	36	30" 118.2# X-42 Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
Air DRL with Mist and additives / 26" Hammer	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface	20" Casing	527	527		26	Surface Casing 20" 94# J-55 BTC 0.438" Wall Coupling OD (in) 21,000 ID (in) 19,124 Drift ID (in) 18,937 Burst (psi) 2110 Collapse (psi) 520 Yield (Jt Strength 1,000 lbs) 1402 Capacity (bbl/ft) 0.3553 Annulus (bbl/ft) 0.2681	Surface Blend (Class A) Cement to surface 30% Excess
Air DRL with Mist and additives	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling (1) installed 100 ft from surface Basket Placement Secured w/ (2) lock rings above and (1) below	Basket Placement Top of Coal Deepest Coal	724	724		17.50	Coal String 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14,375 ID (in) 12,615 Drift ID (in) 12,459 Burst (psi) 2730 Collapse (psi) 1130 Yield (Jt Strength 1,000 lbs) 853	Intermediate I Blend (Class A) Cement grout to surface Shoe Job Vol. (50% Excess) Grout Job Vol. (100% Excess)
Air DRL with Mist and additives	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling	9-5/8" Casing	2,116	2,116		12.25	Intermediate Casing 9-5/8" 40# J-55 BTC Wall 0.395 Coupling OD (in) 10,525 ID (in) 8,835 Drift ID (in) 8,679 Burst (psi) 3,950 Collapse (psi) 2,570 Yield (Jt Strength 1,000 lbs) 530	Intermediate II Blend (Class A) Cement to surface 30% Excess
	Surface - TOC (1) per every other jt TOC-Curve KOP (1) per jt of csg Curve KOP-TMD (1) per jt of csg 10' Marker Jt of Csg 100' above KOP	KOP				8.5 to 8.75	Production Casing 5-1/2" 20# P110EC DW/C/IS-Plus .351" Wall Coupling OD (in) 6,300 ID (in) 4,778 Drift ID (in) 4,653 Burst (psi) 14360 Collapse (psi) 12090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry (Class A, G, H) Cement top approximately 500' below 9-5/8" shoe
Planned MW: 11.5ppg SBM - 12.5ppg SBM	Float Equip. (2) Jts of Csg Float Equip.	Est. BHT deg. F 5-1/2" Casing	12,475	6,164		8,500		Production Tail Slurry (Class A, G, H)

RECEIVED  
Office of Oil and Gas

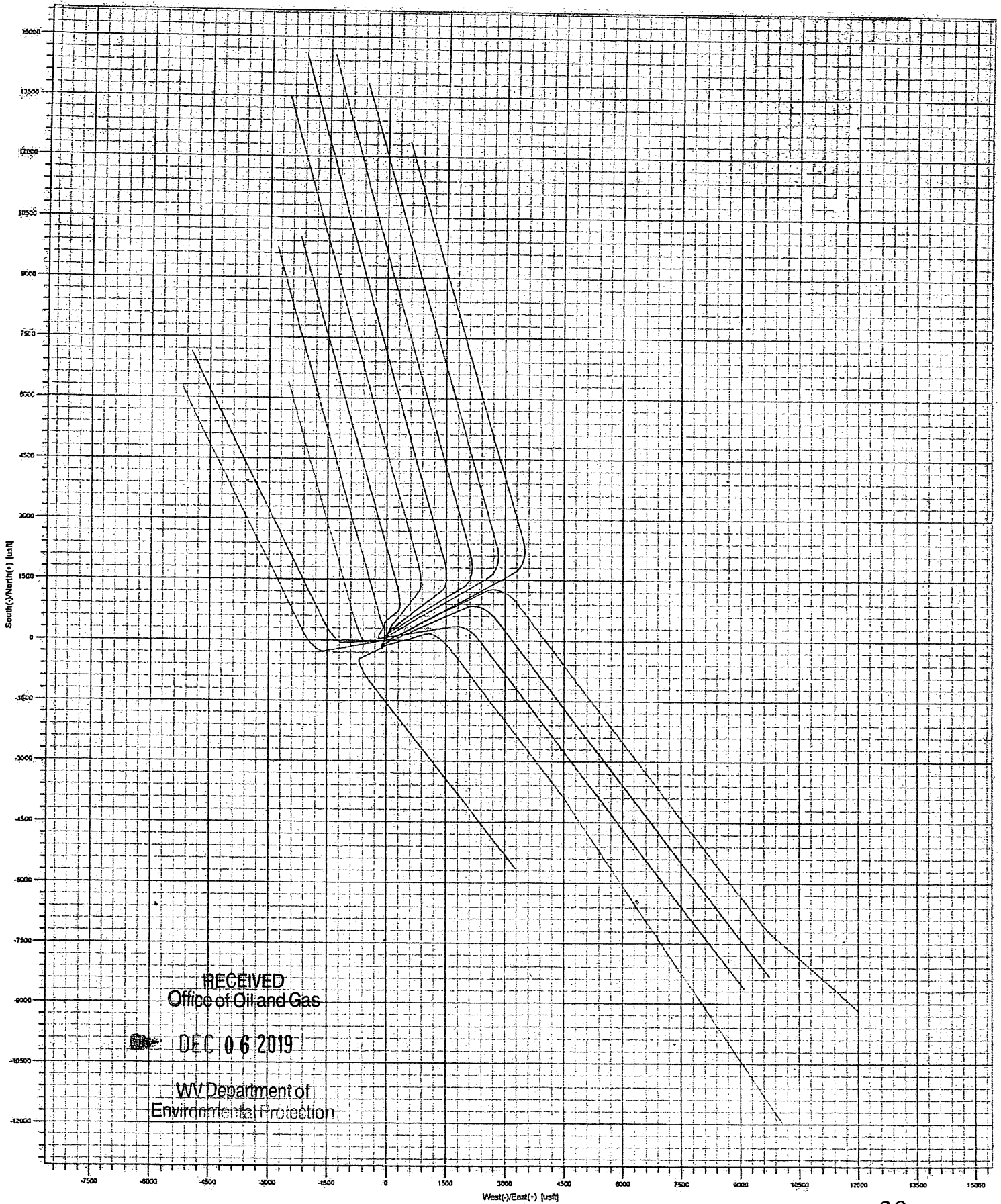
DEC 06 2019

WV Department of  
Environmental Protection

*Handwritten signature*  
11/20/19



# 8. Spider Plot



WW-9  
(4/16)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. M10H

**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) Short Creek - Ohio River Quadrangle Moundsville, WV

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
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ at next anticipated well \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: Yes, we will be utilizing multiple open/closed loop top tanks

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air to KOP & oil based from KOP to TMD

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

Additives to be used in drilling medium? Bartie, fluid loss, emulsifier, rheological control

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite

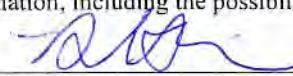
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-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 August 1, 2005, 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  RECEIVED  
Office of Oil and Gas

Company Official (Typed Name) Branden Weimer

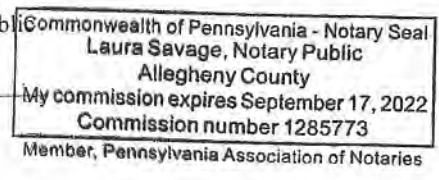
Company Official Title Senior Permitting Advisor DEC 06 2019

Subscribed and sworn before me this 18th day of November, 2019 WV Department of  
Environmental Protection

 Notary Public

My commission expires September 17, 2022

Commonwealth of Pennsylvania  
County of Allegheny



Chevron Appalachia, LLC

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 10-20-20

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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jim Nubolen*

Comments: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection

Title: *Oil & Gas Inspector*

Date: *11/20/19*

Field Reviewed?

Yes

No

47 05 02300

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

RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection



**Chevron**

**Appalachian LLC**  
**WV Well Site Safety Plan**  
**Pad: Hazlett Pad A**  
**Well # M10H**

*Ju*  
*11/20/19*

**28 Timmi Lane**  
**Glen Dale, WV 26038**  
**Glen Dale District**  
**Marshall County, WV**

Access Point – [39.964486°N, 80.719328°W]

Well Site – [39.961756°N, 80.717081°W]

**Marshall County, West Virginia**

Revised 11/14/2018:

- Contact List Updated
- H2S Notification Process Updated
- Flare Location Map Updated

Revised 11/11/2019

- Casing changes

RECEIVED  
Office of Oil and Gas

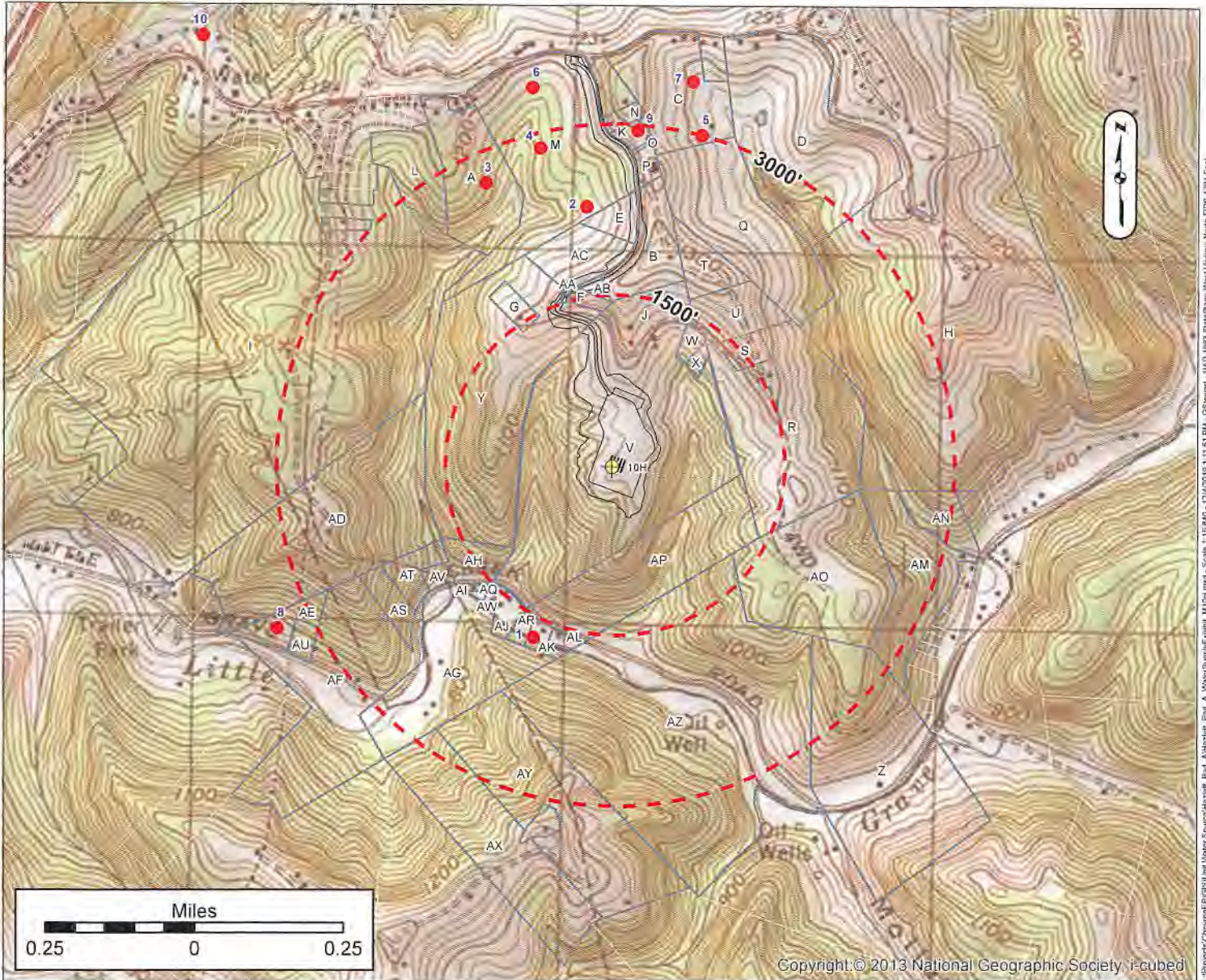
DEC 06 2019

WV Department of  
Environmental Protection



# WATER SUPPLY EXHIBIT HAZLETT PAD A 10H

47 05 1023 00



Copyright: © 2013 National Geographic Society, i-cubed

## LOT OWNERS

Label	Owner	TM	Label	Owner	TM	Label	Owner	TM	Label	Owner	TM
A	KEY GLADYS E - LIFE	25-13 12002700000000	N	OTTE MICHAEL P	25-13 12003100000000	AB	CALISSIE TIMOTHY J	25-13 12005000050000	AO	OTTE HUBERT C ET AL	25-13 12004300000000
B	OTTE MARK DOUGLAS ET UX	25-13 12005000040000	O	OTTE HUBERT CHAS & JANE E	25-13 12003200010000	AC	KIDNEY JARROD S & TIMMI L	25-13 12005000060000	AP	HAZLETT IRENE - LIFE	25-13 12004700000000
C	OTTE MICHAEL P & DENISE A	25-13 12003500010000	P	OTTE MARK D	25-13 12003300000000	AD	MAST LEVI E ET AL	25-13 12005100000000	AQ	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000
D	ANGEL ADAM S JR	25-13 11006100000000	Q	OTTE MARK D & KELLY J	25-13 12003500000000	AE	MCCUNTOCK LARRY L & ALICIA S	25-14 10016000400000	AR	RHODES LISA & NORMAN L	25-13 12004800040000
E	LEACH CHARLES L JR	25-13 12005000070000	R	GLENDALE CITY OF	25-13 12004400000000	AF	YODER ELI A ET AL	25-14 10016000000000	AS	YODER ELI A ET AL	25-14 10016000100000
F	CALISSIE TIMOTHY J ET UX	25-13 12005000020000	S	GLEN DALE TOWN OF	25-13 12004500000000	AG	KOSKI TEDDY F ET UX	25-14 10017000000000	AT	YODER ELI A ET AL	25-14 10016000200000
G	KIDNEY JARROD S & TIMMI L	25-13 12005000080000	T	HAZLETT IRENE - LIFE	25-13 12004600000000	AH	SPRINGER BARBARA K	25-13 12005000010000	AU	NGUYEN LAMSON N ET UX	25-14 10016000300000
H	KURELAC PATRICIA A	25-13 12003600000000	U	HAZLETT FLORENCE IRENE- LIFE	25-13 12004600010000	AI	VOELLINGER JOHN & LOHI	25-13 12005000090000	AV	SPRINGER BARBARA K	25-14 10016000500000
I	REILLY JOHN WILLIAM III ET AL	25-13 12001400000000	V	HAZLETT IRENE - LIFE	25-13 12004900000000	AJ	LINZY LINDA A	25-13 12004800020000	AW	LINZY LINDA A	25-14 10017000100000
J	HAZLETT FLORENCE IRENE - LIFE	25-13 12004900030000	W	HAZLETT MICHAEL C - LIFE	25-13 12004900010000	AK	VICKERS MARY E EST	25-13 12004800000000	AX	MARSHALL COUNTY PARK & REC	25-14 20008000000000
K	OTTE HUBERT CHAS & JANE E	25-13 12003200000000	X	HAZLETT MICHAEL C - LIFE	25-13 12004900020000	AL	VICKERS THOMAS D & JANET E	25-13 12004900010000	AY	MARSHALL COUNTY PARK & REC	25-14 30001000000000
L	BURCH LESTER M ET UX	25-13 12002600000000	Y	CALISSIE TIMOTHY J ET UX	25-13 12005000000000	AM	ROBINSON GARY A	25-13 12004300010000	AZ	OTTE HUBERT C ET AL	25-14 30002000000000
M	OTTE THOMAS L ET AL - LIFE	25-13 12002800000000	AA	CALISSIE TIMOTHY J ET UX	25-13 12005000030000	AN	RICHARDS CHRISTINE	25-13 12004200010000	Z	OTTE HUBERT C ET AL	25-14 30003000000000

Surface Owner: IRENE HAZLETT  
 Oil/Gas Owner: IRENE HAZLETT  
 Well Operator: CHEVRON APPALACHIA, LLC  
 Address: 700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108  
 Phone: 724-564-3700

County: MARSHALL  
 Township: GLEN DALE, WV  
GROUNDWATER & ENVIRONMENTAL  
 Surveyor: SERVICES, INC.  
 Address: 301 COMMERCE PARK DR  
CRANBERRY TOWNSHIP, PA 16066  
 Phone: 800-267-2549

NOTICE: THE INTENT OF THIS EXHIBIT IS TO IDENTIFY EXISTING WATER SUPPLIES IN THE VICINITY OF A PROPOSED GAS WELL, AND IS NOT A COMPLETE BOUNDARY SURVEY. PROPERTY LINES AND OWNER INFORMATION WERE OBTAINED FROM DEEDS, TAX RECORDS, AERIAL PHOTOGRAPHY, GIS, AND FIELD SURVEYED EVIDENCE.

BHL is located on topo map 4,765 feet south of Latitude: 39° 57' 30"  
 SHL is located on topo map 14,356 feet south of Latitude: 40° 00' 00"

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
3. There are no native trout streams within 300' of proposed well.
4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
5. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
6. There are no existing buildings within 625' of proposed well.

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS



LINE	BEARING	DISTANCE
R1	N 30°48'50" W	223.55'
R2	N 41°03'20" W	190.54'
R3	N 59°12'53" W	186.43'
R4	N 39°37'08" W	986.90'
R5	N 02°34'26" W	1305.10'
R6	S 86°08'24" E	1146.80'

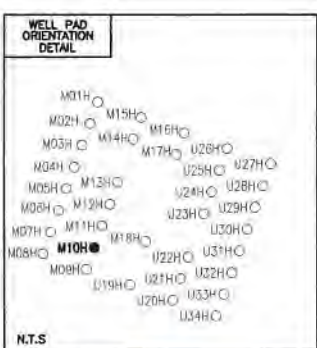


BHL is located on topo map 10,915 feet west of Longitude: 80° 40' 00"  
 SHL is located on topo map 2,559 feet west of Longitude: 80° 42' 30"

**SURFACE HOLE LOCATION (SHL)**  
**UTM 17-NAD83(M)**  
**N:4423421.35**  
**E:524131.12**  
**NAD83, WV NORTH**  
**N:534309.870**  
**E:1627240.670**

**APPROX. LANDING POINT**  
**UTM 17-NAD83(M)**  
**N:4423101.60**  
**E:524039.45**  
**NAD83, WV NORTH**  
**N:533265.610**  
**E:1626922.290**

**BOTTOM HOLE LOCATION (BHL)**  
**UTM 17-NAD83(M)**  
**N:4421722.22**  
**E:525150.14**  
**NAD83, WV NORTH**  
**N:528678.210**  
**E:1630491.370**



**LEGEND**

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS
  - EXISTING WELLS
  - PLUGGED WELLS
  - ABANDONED WELLS

**THRASHER**

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES  
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 PHONE (304) 624-4105 • FAX (304) 624-7531

FILE #: HAZLETT M10H  
 DRAWING #: HAZLETT M10H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: George D. Six  
 R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: NOVEMBER 11, 2019  
 OPERATOR'S WELL #: HAZLETT M10H  
 API WELL #: 47 51 02300, HGA  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1148.00'

COUNTY/DISTRICT: MARSHALL / UNION QUADRANGLE: MOUNDSVILLE, WV 7.5'

SURFACE OWNER: IRENE HAZLETT-LIFE ACREAGE: 77.24±

OIL & GAS ROYALTY OWNER: DONALD BOYD YOHO, KELLY ANN MEASE, ZANE EDWARD NELSEN, NANCY A. BAKER, LARRY JOHN MCCrackEN, PATRICIA ANN MCCrackEN, ROBERT JAY MCCrackEN, FLORENCE HAZLETT ET AL ACREAGE: 382.807±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
 PERFORATE NEW FORMATION  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE

(SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,164'± TMD: 12475.30'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY

Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600  
 City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202

# HAZLETT

## M10H

### PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	DONALD BOYD YOHO KELLY ANN MEASE ZANE EDWARD NEILSEN NANCY A. BAKER LARRY JOHN MCCRACKEN PATRICIA ANN MCCRACKEN ROBERT JAY MCCRACKEN FLORENCE HAZLETT ET AL	13-12/49
B	RICHARD JOSEPH OTTE CAROLINE PENTZIEN PATRICIA GAIL FOSTER NANCY JEAN CUNNINGHAM REBECCA ANN YOHO HUBERT C. OTTE ET UX MICHAEL P. OTTE MARK DOUGLAS OTTE	13-12/47
C	RICHARD JOSEPH OTTE CAROLINE PENTZIEN PATRICIA GAIL FOSTER NANCY JEAN CUNNINGHAM REBECCA ANN YOHO HUBERT C. OTTE ET UX MICHAEL P. OTTE MARK DOUGLAS OTTE	14-3/2
D	RICHARD JOSEPH OTTE CAROLINE PENTZIEN PATRICIA GAIL FOSTER NANCY JEAN CUNNINGHAM REBECCA ANN YOHO HUBERT C. OTTE ET UX MICHAEL P. OTTE MARK DOUGLAS OTTE	14-3/2.1
E	RICHARD JOSEPH OTTE CAROLINE PENTZIEN PATRICIA GAIL FOSTER NANCY JEAN CUNNINGHAM REBECCA ANN YOHO HUBERT C. OTTE ET UX MICHAEL P. OTTE MARK DOUGLAS OTTE	14-3/53
F	CHARLES RICHARD WILSON	14-3/45

	SURFACE OWNER	DIST-TM/PAR
1	IRENE HAZLETT - LIFE	13-12/49
2	IRENE HAZLETT - LIFE	13-12/47
3	HUBERT C. OTTE ET AL	14-3/2
4	HUBERT C. & JANE E. OTTE	14-3/2.1
5	HUBERT C. & JANE E. OTTE	14-3/53
6	CHARLES RICHARD WILSON	14-3/45

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M) N:4423421.35 E:524131.12
NAD83, WV NORTH N:534309.870 E:1627240.670

APPROX. LANDING POINT
UTM 17-NAD83(M) N:4423101.60 E:524039.45
NAD83, WV NORTH N:533265.610 E:1626922.290

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4421722.22 E:525150.14
NAD83, WV NORTH N:528678.210 E:1630491.370

**NOVEMBER 11, 2019**

# THRASHER

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES  
600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
PHONE (304) 624-4108 • FAX (304) 624-7831

API WELL #: 47      51      02300 RGA  
STATE      COUNTY      PERMIT



BHL is located on topo map 4,765 feet south of Latitude: 39° 57' 30"  
 SHL is located on topo map 14,356 feet south of Latitude: 40° 00' 00"

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
3. There are no native trout streams within 300' of proposed well.
4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
5. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
6. There are no existing buildings within 625' of proposed well.

**SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS**



LINE	BEARING	DISTANCE
R1	N 30°48'50" W	223.55'
R2	N 41°03'20" W	190.54'
R3	N 59°12'53" W	186.43'
R4	N 39°37'08" W	986.90'
R5	N 02°34'26" W	1305.10'
R6	S 86°08'24" E	1146.80'



BHL is located on topo map 10,915 feet west of Longitude: 80° 40' 00"  
 SHL is located on topo map 2,559 feet west of Longitude: 80° 42' 30"

**SURFACE HOLE LOCATION (SHL)**

**UTM 17-NAD83(M)**  
 N:4423421.35  
 E:524131.12

NAD83, WY NORTH  
 N:534309.870  
 E:1627240.670

**APPROX. LANDING POINT**

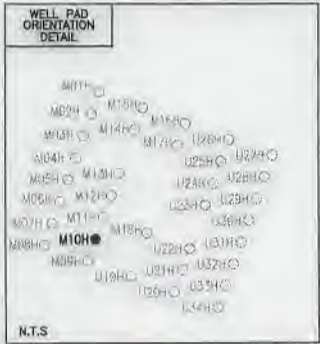
**UTM 17-NAD83(M)**  
 N:4423101.60  
 E:524039.45

NAD83, WY NORTH  
 N:533265.610  
 E:1626922.290

**BOTTOM HOLE LOCATION (BHL)**

**UTM 17-NAD83(M)**  
 N:4421722.22  
 E:525150.14

NAD83, WY NORTH  
 N:528678.210  
 E:1630491.370



**LEGEND**

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS

**THRASHER**

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES  
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26030  
 PHONE (304) 624-4108 • FAX (304) 624-7811

FILE #: HAZLETT M10H

DRAWING #: HAZLETT M10H

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: George D. Six

R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: NOVEMBER 11, 2019

OPERATOR'S WELL #: HAZLETT M10H

API WELL #: 47 51 02300

STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1148.00'

COUNTY/DISTRICT: MARSHALL / UNION QUADRANGLE: MOUNDSVILLE, WV 7.5'

SURFACE OWNER: IRENE HAZLETT-LIFE ACREAGE: 77.24±

OIL & GAS ROYALTY OWNER: DONALD BOYD YOHO, KELLY ANN MEASE, ZANE EDWARD NEILSEN, NANCY A. BAKER, LARRY JOHN MCCrackEN, PATRICIA ANN MCCrackEN, ROBERT JAY MCCrackEN, FLORENCE HAZLETT ET AL ACREAGE: 382.807±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE

(SPECIFY): \_\_\_\_\_ ESTIMATED DEPTH: TVD: 6,164± TMD: 12475.30±

WELL OPERATOR: CHEVRON APPALACHIA, LLC DESIGNATED AGENT: KENNETH E. TAWNEY

Address: 700 CHERRINGTON PARKWAY Address: 500 LEE STREET, EAST SUITE 1600

City: CORAOPOLIS State: PA Zip Code: 15108 City: CHARLESTON State: WV Zip Code: 25301-3202

# HAZLETT

## M10H

### PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	DONALD BOYD YOHO	13-12/49
	KELLY ANN MEASE	
	ZANE EDWARD NEILSEN	
	NANCY A. BAKER	
	LARRY JOHN MCCRACKEN	
	PATRICIA ANN MCCRACKEN	
	ROBERT JAY MCCRACKEN	
	FLORENCE HAZLETT ET AL	
B	RICHARD JOSEPH OTTE	13-12/47
	CAROLINE PENTZIEN	
	PATRICIA GAIL FOSTER	
	NANCY JEAN CUNNINGHAM	
	REBECCA ANN YOHO	
	HUBERT C. OTTE ET UX	
	MICHAEL P. OTTE	
	MARK DOUGLAS OTTE	
C	RICHARD JOSEPH OTTE	14-3/2
	CAROLINE PENTZIEN	
	PATRICIA GAIL FOSTER	
	NANCY JEAN CUNNINGHAM	
	REBECCA ANN YOHO	
	HUBERT C. OTTE ET UX	
	MICHAEL P. OTTE	
	MARK DOUGLAS OTTE	
D	RICHARD JOSEPH OTTE	14-3/2.1
	CAROLINE PENTZIEN	
	PATRICIA GAIL FOSTER	
	NANCY JEAN CUNNINGHAM	
	REBECCA ANN YOHO	
	HUBERT C. OTTE ET UX	
	MICHAEL P. OTTE	
	MARK DOUGLAS OTTE	
E	RICHARD JOSEPH OTTE	14-3/53
	CAROLINE PENTZIEN	
	PATRICIA GAIL FOSTER	
	NANCY JEAN CUNNINGHAM	
	REBECCA ANN YOHO	
	HUBERT C. OTTE ET UX	
	MICHAEL P. OTTE	
	MARK DOUGLAS OTTE	
F	CHARLES RICHARD WILSON	14-3/45

	SURFACE OWNER	DIST-TM/PAR
1	IRENE HAZLETT - LIFE	13-12/49
2	IRENE HAZLETT - LIFE	13-12/47
3	HUBERT C. OTTE ET AL	14-3/2
4	HUBERT C. & JANE E. OTTE	14-3/2.1
5	HUBERT C. & JANE E. OTTE	14-3/53
6	CHARLES RICHARD WILSON	14-3/45

SURFACE HOLE LOCATION (SHL)
<b>UTM 17-NAD83(M)</b>
N:4423421.35
E:524131.12
NAD83, WV NORTH
N:534309.870
E:1627240.670

APPROX. LANDING POINT
<b>UTM 17-NAD83(M)</b>
N:4423101.60
E:524039.45
NAD83, WV NORTH
N:533265.610
E:1626922.290

BOTTOM HOLE LOCATION (BHL)
<b>UTM 17-NAD83(M)</b>
N:4421722.22
E:525150.14
NAD83, WV NORTH
N:528678.210
E:1630491.370

**NOVEMBER 11, 2019**

**THRASHER**

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES  
600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
PHONE (304) 624-4108 • FAX (304) 624-7931

API WELL #: 47      51      02300 H6A  
STATE      COUNTY      PERMIT

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attached				

RECEIVED  
Office of Oil and Gas

DEC 06 2019


WV Department of  
Environmental Protection

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Chevron Appalachia, LLC  
 By: Branden Weimer   
 Its: Senior Permitting Advisor

**Hazlett Unit M10H**

Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1
A	13-0012-0049-0000-0000	Yoho, Donald Boyd	Chevron U.S.A. Inc.	No Less Than 1/8	854/74	
		Mease, Kelly Ann	Chevron U.S.A. Inc.	No Less Than 1/8	859/86	
		Neilsen, Zane Edward	Chevron U.S.A. Inc.	No Less Than 1/8	848/632	
		Baker, Nancy A.	Chevron U.S.A. Inc.	No Less Than 1/8	911/615	
		McCracken, Larry John	Chevron U.S.A. Inc.	No Less Than 1/8	848/581	
		McCracken, Patricia Ann	Chevron U.S.A. Inc.	No Less Than 1/8	848/586	
		McCracken, Robert Jay	Chevron U.S.A. Inc.	No Less Than 1/8	848/591	
		Hazlett, Florence et al	Chevron U.S.A. Inc.	No Less Than 1/8	949/19	
B	13-0012-0047-0000-0000	Otte, Richard Joseph	Chevron U.S.A. Inc.	No Less Than 1/8	939/130	
		Pentzien, Caroline	Chevron U.S.A. Inc.	No Less Than 1/8	950/196	
		Foster, Patricia Gail	Chevron U.S.A. Inc.	No Less Than 1/8	950/218	
		Cunningham, Nancy Jean	Chevron U.S.A. Inc.	No Less Than 1/8	950/215	
		Yoho, Rebecca Ann	Chevron U.S.A. Inc.	No Less Than 1/8	950/212	
		Otte, Hubert C. et ux	Chevron U.S.A. Inc.	No Less Than 1/8	939/127	
		Otte, Michael P.	Chevron U.S.A. Inc.	No Less Than 1/8	935/160	
		Otte, Mark Douglas	Chevron U.S.A. Inc.	No Less Than 1/8	939/180	
C	14-0003-0002-0000-0000	Otte, Richard Joseph	Chevron U.S.A. Inc.	No Less Than 1/8	939/130	
		Pentzien, Caroline	Chevron U.S.A. Inc.	No Less Than 1/8	950/196	
		Foster, Patricia Gail	Chevron U.S.A. Inc.	No Less Than 1/8	950/218	
		Cunningham, Nancy Jean	Chevron U.S.A. Inc.	No Less Than 1/8	950/215	

RECEIVED  
Office of Oil and Gas  
DEC 06 2019

WV Department of  
Environmental Protection

4705402300

Hazlett Unit M10H

Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1
C	14-0003-0002-0000-0000	Yoho, Rebecca Ann	Chevron U.S.A. Inc.	No Less Than 1/8	950/212	
		Otte, Hubert C. et ux	Chevron U.S.A. Inc.	No Less Than 1/8	939/127	
		Otte, Michael P.	Chevron U.S.A. Inc.	No Less Than 1/8	935/160	
		Otte, Mark Douglas	Chevron U.S.A. Inc.	No Less Than 1/8	939/180	
D	14-0003-0002-0001-0000  RECEIVED Office of Oil and Gas	Otte, Richard Joseph	Chevron U.S.A. Inc.	No Less Than 1/8	939/130	
		Pentzien, Caroline	Chevron U.S.A. Inc.	No Less Than 1/8	950/196	
		Foster, Patricia Gail	Chevron U.S.A. Inc.	No Less Than 1/8	950/218	
		Cunningham, Nancy Jean	Chevron U.S.A. Inc.	No Less Than 1/8	950/215	
		Yoho, Rebecca Ann	Chevron U.S.A. Inc.	No Less Than 1/8	950/212	
		Otte, Hubert C. et ux	Chevron U.S.A. Inc.	No Less Than 1/8	939/127	
		Otte, Michael P.	Chevron U.S.A. Inc.	No Less Than 1/8	935/160	
		Otte, Mark Douglas	Chevron U.S.A. Inc.	No Less Than 1/8	939/180	
E	DEC 06 2019 WV Department of Environmental Protection  14-0003-0053-0000-0000	Otte, Richard Joseph	Chevron U.S.A. Inc.	No Less Than 1/8	939/130	
		Pentzien, Caroline	Chevron U.S.A. Inc.	No Less Than 1/8	950/196	
		Foster, Patricia Gail	Chevron U.S.A. Inc.	No Less Than 1/8	950/218	
		Cunningham, Nancy Jean	Chevron U.S.A. Inc.	No Less Than 1/8	950/215	
		Yoho, Rebecca Ann	Chevron U.S.A. Inc.	No Less Than 1/8	950/212	
		Otte, Hubert C. et ux	Chevron U.S.A. Inc.	No Less Than 1/8	939/127	
		Otte, Michael P.	Chevron U.S.A. Inc.	No Less Than 1/8	935/160	
		Otte, Mark Douglas	Chevron U.S.A. Inc.	No Less Than 1/8	939/180	

4705 02300

Hazlett Unit M10H						
Plat ID	Parcel	Lessor	Lessee	Royalty	Book/Page	Assignment #1
F	14-0003-0045-0000-0000	Charles Richard Wilson - TOP LSE	Chevron U.S.A. Inc.	No Less Than 1/8	1052/142	-



RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection

4705902300



4705 902300

**Brian Derr**  
Land Representative

October 7, 2019

West Virginia D.E.P.  
Office of Oil & Gas  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304-2345

RE: Hazlett M10H

To whom it may concern:

This letter is to confirm that Chevron U.S.A. Inc. has the rights to access minerals under any road along the above referenced laterals. If you should have any further questions or need additional documentation, please feel free to contact me.

Sincerely,

Brian Derr  
Land Representative

RECEIVED  
Office of Oil and Gas  
DEC 06 2019  
WV Department of  
Environmental Protection

**Appalachian Mountain Business Unit**  
**Chevron North America Exploration and Production Company**  
A Division of Chevron U.S.A. Inc.  
700 Cherrington Parkway, Coraopolis, PA 15108  
Tel 412 865 1460  
Brian.Derr@chevron.com

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE CERTIFICATION

Date of Notice Certification: 11/18/19

API No. 47- \_\_\_\_\_  
Operator's Well No. M10H  
Well Pad Name: Hazlett Pad A

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524131.13</u>
County:	<u>Marshall</u>		Northing:	<u>4423421.35</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>	
Quadrangle:	<u>Moundsville, WV</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	---

RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection


**Required Attachments:**

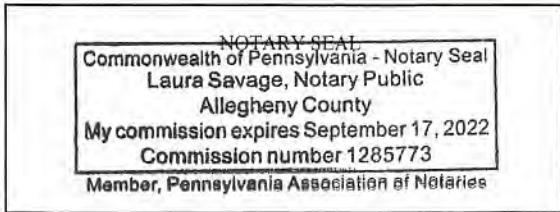
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.



**Certification of Notice is hereby given:**

THEREFORE, I Branden Weimer, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	<u>Chevron Appalachia, LLC</u>	Address:	<u>700 Cherrington Parkway</u>
By:	<u>Branden Weimer</u> 		<u>Coraopolis, PA 15108</u>
Its:	<u>Senior Permitting Advisor</u>	Facsimile:	<u>412-865-2403</u>
Telephone:	<u>412-865-3140</u>	Email:	<u>BWeimer@chevron.com</u>



Commonwealth of Pennsylvania  
County of Allegheny  
Subscribed and sworn before me this 18<sup>th</sup> day of November 2019.

Laura Savage Notary Public

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 telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas  
DEC 06 2019  
WV Department of  
Environmental Protection

47 05 102300

WW-6A  
(9-13)

API NO. 47-  
OPERATOR WELL NO. M10H  
Well Pad Name: Hazlett Pad A

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 11/18/19 Date Permit Application Filed: 12/5/19

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)  
Name: Florence Irene Hazlett (Life Estate Interest)  
Address: 648 Markey Hill Lane  
Glen Dale, WV 25038

Name: Michael C. Hazlett (Remainder Interest)  
Address: 648 Markey Hill Lane  
Glen Dale, WV 26038

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: Consol Mining Company, LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317

COAL OPERATOR

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attached  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

RECEIVED  
Office of Oil and Gas  
DEC 06 2019  
WV Department of  
Environmental Protection

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

**This Notice Shall Include:**

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

**Water Well Testing:**

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

**Water Testing Laboratories:**

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

**Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:**

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

**Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**Time Limits and Methods for Filing Comments.**

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

**Comment Requirements**

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

**Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection

WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. M10H  
Well Pad Name: Hazlett Pad A

**Notice is hereby given by:**

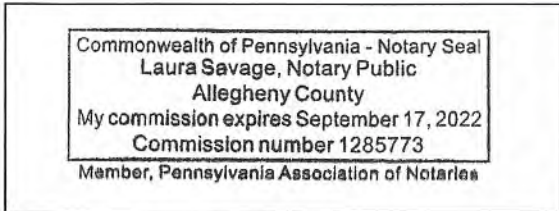
Well Operator: Chevron Appalachia, LLC  
Telephone: 412-865-3140  
Email: BWeimer@chevron.com



Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Facsimile: 412-865-2403

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



*Commonwealth of Pennsylvania*  
*County of Allegheny*  
Subscribed and sworn before me this 18<sup>th</sup> day of November, 2019.  
Laura Savage Notary Public  
My Commission Expires September 17, 2022

RECEIVED  
Office of Oil and Gas  
DEC 06 2019  
WV Department of  
Environmental Protection

Attachment to WW-6A

API No. 47- \_\_\_\_\_ - \_\_\_\_\_

OPERATOR WELL NO. 10HWell Pad Name: Hazlett

- SURFACE OWNER**  
Name: Loretta Kay Wallace (Remainder Interest)  
Address: 1485 Missy Court  
Hamilton, OH 45013
- COAL OWNER OR LESSEE**  
Name: Consol Mining Company, LLC  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317
- COAL OPERATOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name: Thomas D & Janet E. Vickers  
Address: 1526 Little Grave Creek Drive  
Glen Dale, WV 26038
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**  
Name:  
Address:

RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection



# WATER SUPPLY EXHIBIT HAZLETT PAD A 10H

47 05 1023 00



## LOT OWNERS

Label	Owner	TM	Label	Owner	TM	Label	Owner	TM
A	KEY GLADYS E - LIFE	25-13 12002700000000	N	OTTE MICHAEL P	25-13 12003100000000	AB	CALISSIE TIMOTHY J	25-13 12005000050000
B	OTTE MARK DOUGLAS ET UX	25-13 12005000040000	O	OTTE HUBERT CHAS & JANE E	25-13 12003200010000	AC	KIDNEY JARROD S & TIMMI L	25-13 12005000060000
C	OTTE MICHAEL P & DENISE A	25-13 12003500010000	P	OTTE MARK D	25-13 12003300000000	AD	MAST LEVI E ET AL	25-13 12005100000000
D	ANGEL ADAM S JR	25-13 11006100000000	Q	OTTE MARK D & KELLY J	25-13 12003500000000	AE	MCCLINTOCK LARRY L & ALICIA S	25-14 10016000400000
E	LEACH CHARLES L JR	25-13 12005000070000	R	GLENDALE CITY OF	25-13 12002400000000	AF	YODER ELI A ET AL	25-14 10016000000000
F	CALISSIE TIMOTHY J ET UX	25-13 12005000020000	S	GLEN DALE TOWN OF	25-13 12002400000000	AG	KOSKI TEDDY F ET UX	25-14 10017000000000
G	KIDNEY JARROD S & TIMMI L	25-13 12005000090000	T	HAZLETT IRENE - LIFE	25-13 12002400000000	AH	SPRINGER BARBARA K	25-13 12005000010000
H	KURELAC PATRICIA A	25-13 12003600000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 12002400000000	AI	VOELLINGER JOHN & LORI	25-13 12005000020000
I	REILLY JOHN WILLIAM III ET AL	25-13 12001400000000	V	HAZLETT IRENE - LIFE	25-13 12002400000000	AJ	LINZY LINDA A	25-13 12004800020000
J	HAZLETT FLORENCE IRENE - LIFE	25-13 12002900030000	W	HAZLETT MICHAEL C - LIFE	25-13 12002900010000	AK	VICKERS MARY E EST	25-13 12004800030000
K	OTTE HUBERT CHAS & JANE E	25-13 12003200000000	X	HAZLETT MICHAEL C - LIFE	25-13 12002900020000	AL	VICKERS THOMAS D & JANET E	25-13 12004800010000
L	BURCH LESTER M ET UX	25-13 12002600000000	Y	CALISSIE TIMOTHY J ET UX	25-13 12005000000000	AM	ROBINSON GARY A	25-13 12004300010000
M	OTTE THOMAS L ET AL - LIFE	25-13 12002800000000	AA	CALISSIE TIMOTHY J ET UX	25-13 12005000030000	AN	RICHARDS CHRISTINE	25-13 12004200010000
						AO	OTTE HUBERT C ET AL	25-13 12004300000000
						AP	HAZLETT IRENE - LIFE	25-13 12004700000000
						AQ	KOSKI TEDDY F & EMMA JANE	25-13 12004800030000
						AR	RHODES LISA & NORMAN L	25-13 12004800040000
						AS	YODER ELI A ET AL	25-14 10016000100000
						AT	YODER ELI A ET AL	25-14 10016000200000
						AU	NGUYEN LAMSON N ET UX	25-14 10016000300000
						AV	SPRINGER BARBARA K	25-14 10016000500000
						AW	LINZY LINDA A	25-14 10017000100000
						AX	MARSHALL COUNTY PARK & REC	25-14 30008000000000
						AY	MARSHALL COUNTY PARK & REC	25-14 30001000000000
						AZ	OTTE HUBERT C ET AL	25-14 30002000000000
						Z	OTTE HUBERT C ET AL	25-14 30003000000000

Surface Owner: IRENE HAZLETT  
 Oil/Gas Owner: IRENE HAZLETT  
 Well Operator: CHEVRON APPALACHIA, LLC  
 Address: 700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108  
 Phone: 724-564-3700

County: MARSHALL  
 Township: GLEN DALE, WV  
GROUNDWATER & ENVIRONMENTAL  
 Surveyor: SERVICES, INC.  
 Address: 301 COMMERCE PARK DR  
CRANBERRY TOWNSHIP, PA 16066  
 Phone: 800-267-2549

NOTICE: THE INTENT OF THIS EXHIBIT IS TO IDENTIFY EXISTING WATER SUPPLIES IN THE VICINITY OF A PROPOSED GAS WELL, AND IS NOT A COMPLETE BOUNDARY SURVEY. PROPERTY LINES AND OWNER INFORMATION WERE OBTAINED FROM DEEDS, TAX RECORDS, AERIAL PHOTOGRAPHY, GIS, AND FIELD SURVEYED EVIDENCE.

L:\Projects\Chevron\EPG\B\Well\Water\Subarea\Hazlett\_Pad\_A\Hazlett\_Pad\_A\_10H\mxd - Scale: 1:15840 - 12/4/2018 1:11:26 PM - G:\swat - 1083 StatePlane West Virginia North EPS 4701 Feet





Water Supply Exhibit  
Hazlett Pad A 10H

47 05 10 23 00  
GESY

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1	VICKERS THOMAS D & JANET E	Creek	766	1526 LITTLE GRAVE CREEK DRIVE	304-845-4568
2	OTTE, MICHAEL; OTTE, MARK; OTTE, HUBERT & JANE; KEY, GLADYS	Spring	1,167	224 MARKEY HILL LANE	304-232-0478
3	KEY GLADYS E - LIFE	Spring	1,179	1875 GLEN DALE HIGHTS ROAD	304-312-1408
4	OTTE, MICHAEL; OTTE, MARK; OTTE, HUBERT & JANE; KEY, GLADYS	Spring	1,169	224 MARKEY HILL LANE	304-232-0478
5	OTTE MICHAEL P & DENISE A	Spring	1,192	26 JOHN DEERE DRIVE	304-312-9337
6	OTTE, MICHAEL; OTTE, MARK; OTTE, HUBERT & JANE; KEY, GLADYS	Spring	1,173	224 MARKEY HILL LANE	304-232-0478
7	OTTE MICHAEL P & DENISE A	Spring	1,199	26 JOHN DEERE DRIVE	304-312-9337
8	MCCLINTOCK LARRY L & ALICIA S	Well	718	1456 LITTLE GRAVE CK DRIVE	304-810-0571
9	OTTE MICHAEL P	Well	1,349	26 JOHN DEERE DRIVE	304-312-9337
10	REILLY JOHN WILLIAM III ET AL	Well	1,160	80 RED FARM LANE	304-233-7824

No.	SUPPLY COORDINATES	10H							
1	39°57'23.25240"N 80°43'11.50320"W	1,648							
2	39°58'00.68520"N 80°43'06.23640"W	2,297							
3	39°58'02.65440"N 80°43'17.77080"W	2,739							
4	39°58'05.77200"N 80°43'11.60400"W	2,878							
5	39°58'07.12560"N 80°42'53.30160"W	3,027							
6	39°58'11.03880"N 80°43'12.64800"W	3,415							
7	39°58'11.79480"N 80°42'54.45000"W	3,469							
8	39°57'23.72400"N 80°43'40.66680"W	3,283							
9	39°58'07.43880"N 80°43'00.60240"W	2,971							
10	39°58'15.08160"N 80°43'50.22120"W	5,250							

RECEIVED  
Office of Oil and Gas

DEC 06 2019

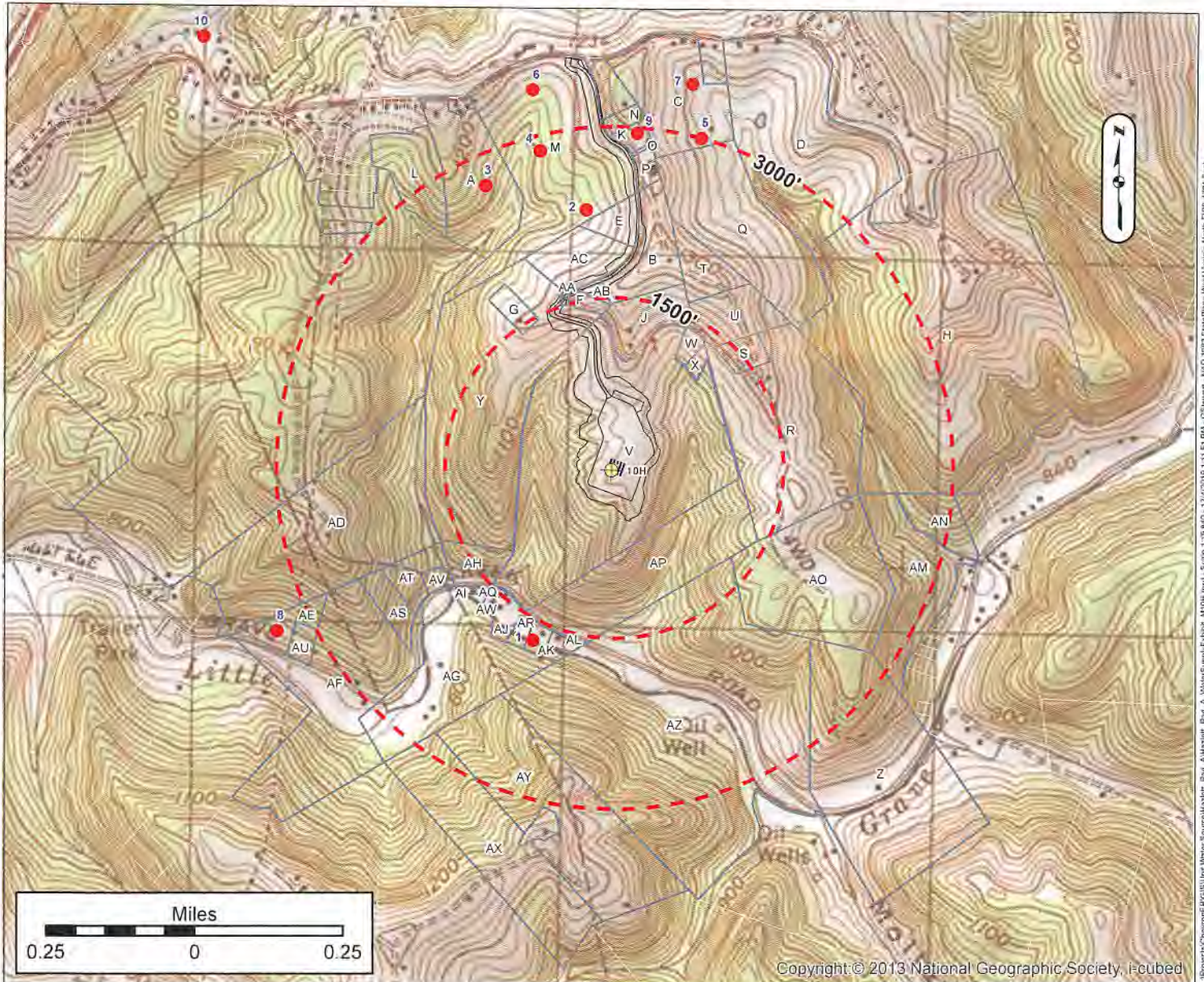
WV Department of  
Environmental Protection

\*ELEVATIONS SHOWN ARE INTERPOLATED FROM LIDAR TOPO AND SUPPLY COORDINATES ARE FROM OTHERS.



# WATER SUPPLY EXHIBIT HAZLETT PAD A 10H

47 05 102300



## LOT OWNERS

Label	Owner	TM	Label	Owner	TM	Label	Owner	TM	Label	Owner	TM
A	KEY GLADYS E - LIFE	25-13 12002700000000	N	OTTE MICHAEL P	25-13 12003100000000	AB	CALISSIE TIMOTHY J	25-13 12003000050000	AD	OTTE HUBERT C ET AL	25-13 12004300000000
B	OTTE MARK DOUGLAS ET UX	25-13 12005000040000	D	OTTE HUBERT CHAS & JANE E	25-13 12003200010000	AC	KIDNEY JARROD S & TIMMIL	25-13 12005000060000	AP	HAZLETT IRENE - LIFE	25-13 12004700000000
C	OTTE MICHAEL P & DENISE A	25-13 12003500010000	P	OTTE MARK D	25-13 12003300000000	AD	MAST LEVI E ET AL	25-12 12005100000000	AQ	KOSKI TEDDY F & EMMA-JANE	25-13 12004800030000
D	ANGEL ADAM S JR	25-13 11006100000000	Q	OTTE MARK D & KELLY J	25-13 12003500000000	AE	MCCUNTOCK LARRY L & ALICIA S	25-14 10016000400000	AR	RHODES LISA & NORMAN L	25-13 12004800040000
E	LEACH CHARLES J JR	25-13 12005000070000	R	GLENDALE CITY OF	25-13 12004400000000	AF	YODER ELI A ET AL	25-11 10016000000000	AS	YODER ELI A ET AL	25-14 10016000100000
F	CALISSIE TIMOTHY J ET UX	25-13 12005000020000	S	GLEN DALE TOWN OF	25-13 12004500000000	AG	KOSKI TEDDY F ET UX	25-14 10017000000000	AT	YODER ELI A ET AL	25-14 10016000200000
G	KIDNEY JARROD S & TIMMIL	25-13 12005000080000	T	HAZLETT IRENE - LIFE	25-13 12004600000000	AH	SPRINGER BARBARA K	25-13 12005000010000	AU	NGUYEN LAMSON N ET UX	25-14 10016000300000
H	KURELAC PATRICIA A	25-13 12003600000000	U	HAZLETT FLORENCE IRENE - LIFE	25-13 12004600010000	AI	VOELLINGER JOHN & LORI	25-13 12005000090000	AV	SPRINGER BARBARA K	25-14 10016000500000
I	REILLY JOHN WILLIAM III ET AL	25-13 12001400000000	V	HAZLETT IRENE - LIFE	25-13 12004900000000	AJ	LINZY LINDA A	25-13 12004800020000	AW	LINZY LINDA A	25-14 10017000100000
J	HAZLETT FLORENCE IRENE - LIFE	25-13 12004900030000	W	HAZLETT MICHAEL C - LIFE	25-13 12004900010000	AK	VICKERS MARY E EST	25-13 12004800060000	AX	MARSHALL COUNTY PARK & REC	25-14 20008005000000
K	OTTE HUBERT CHAS & JANE E	25-13 12003200000000	X	HAZLETT MICHAEL C - LIFE	25-13 12004900020000	AL	VICKERS THOMAS D & JANET E	25-13 1200480009100000	AY	MARSHALL COUNTY PARK & REC	25-14 30001000000000
L	BURCH LESTER M ET UX	25-13 12002600000000	Y	CALISSIE TIMOTHY J ET UX	25-13 12005000000000	AM	ROBINSON GARY A	25-13 12004300010000	AZ	OTTE HUBERT C ET AL	25-14 30002000000000
M	OTTE THOMAS L ET AL - LIFE	25-13 12002800000000	AA	CALISSIE TIMOTHY J ET UX	25-13 12005000030000	AN	RICHARDS CHRISTINE	25-13 12004200010000	Z	OTTE HUBERT C ET AL	25-14 30003000000000

Surface Owner: IRENE HAZLETT  
 Oil/Gas Owner: IRENE HAZLETT  
 Well Operator: CHEVRON APPALACHIA, LLC  
 Address: 700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108  
 Phone: 724-564-3700

County: MARSHALL  
 Township: GLEN DALE, WV  
GROUNDWATER & ENVIRONMENTAL  
 Surveyor: SERVICES, INC.  
 Address: 301 COMMERCE PARK DR  
CRANBERRY TOWNSHIP, PA 16066  
 Phone: 800-267-2549

NOTICE: THE INTENT OF THIS EXHIBIT IS TO IDENTIFY EXISTING WATER SUPPLIES IN THE VICINITY OF A PROPOSED GAS WELL, AND IS NOT A COMPLETE BOUNDARY SURVEY. PROPERTY LINES AND OWNER INFORMATION WERE OBTAINED FROM DEEDS, TAX RECORDS, AERIAL PHOTOGRAPHY, GIS, AND FIELD SURVEYED EVIDENCE.

L:\Projects\Cherrington\GIS\WaterSupply\Hazlett\_Pad\_A\Hazlett\_Pad\_A\_10H.mxd - State 115 840 - 12/4/2019 11:11:51 PM - OS/Geoarc - NAD 1983 StatePlane West Virginia North Fips 4701 Feet

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

**Notice Time Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 11/18/19      **Date Permit Application Filed:** 12/5/19

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: Florence Irene Hazlett (Life Estate Interest)  
Address: 648 Markey Hill Lane  
Glen Dale, WV 26038

Name: Michael C. Hazlett (Remainder Interest)  
Address: 648 Markey Hill Lane  
Glen Dale, WV 26038

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>524131.13</u>
County: <u>Marshall</u>	Northing: <u>4423421.35</u>
District: <u>Union</u>	Public Road Access: <u>CR 10 Markey Lane</u>
Quadrangle: <u>Moundsville, WV</u>	Generally used farm name: <u>Hazlett</u>
Watershed: <u>Short Creek - Ohio River</u>	

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Chevron Appalachia, LLC  
Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Telephone: 412-865-3140  
Email: BWeimer@chevron.com  
Facsimile: 412-865-2403

Authorized Representative: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Email: \_\_\_\_\_  
Facsimile: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
  
DEC 06 2019  
  
WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

**Notice Time Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 11/18/19 **Date Permit Application Filed:** 12/3/19

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: Loretta Kay Wallace (Remainder Interest)  
Address: 1485 Missy Court  
Hamilton, OH 45013

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>524131.13</u>
County: <u>Marshall</u>	Northing: <u>4423421.35</u>
District: <u>Union</u>	Public Road Access: <u>CR 10 Markey Lane</u>
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Hazlett</u>
Watershed: <u>Short Creek - Ohio River</u>	

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Chevron Appalachia, LLC  
Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Telephone: 412-865-2504  
Email: staird@chevron.com  
Facsimile: 412-865-2403

Authorized Representative: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Email: \_\_\_\_\_  
Facsimile: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
  
DEC 06 2019  
  
WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF PLANNED OPERATION**

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 11/18/19      **Date Permit Application Filed:** \_\_\_\_\_

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

- CERTIFIED MAIL                                       HAND  
 RETURN RECEIPT REQUESTED                                      DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: Florence Irene Hazlett (Life Estate Interest)  
Address: 648 Markey Hill Lane  
Glen Dale, WV 26038

Name: Michael C. Hazlett (Remainder Interest)  
Address: 648 Markey Hill Lane  
Glen Dale, WV 26038

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524131.13</u>
County:	<u>Marshall</u>		Northing:	<u>4423421.35</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>	
Quadrangle:	<u>Moundsville, WV</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Chevron Appalachia, LLC  
Telephone: 412-865-3140  
Email: BWeimer@chevron.com

Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Facsimile: 412-865-2403

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF PLANNED OPERATION**

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 11/18/19 **Date Permit Application Filed:** \_\_\_\_\_

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

- CERTIFIED MAIL  HAND
- RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**

(at the address listed in the records of the sheriff at the time of notice):

Name: Loretta Kay Wallace (Remainder Interest)  
Address: 1485 Missy Court  
Hamilton, OH 45013

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524131.13</u>
County:	<u>Marshall</u>		Northing:	<u>4423421.35</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Road</u>	
Quadrangle:	<u>Moundsville, WV 7.5'</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Chevron Appalachia, LLC  
Telephone: 412-865-2504  
Email: slaird@chevron.com

Address: 700 Cherrington Parkway  
Coraopolis, PA 15108  
Facsimile: 412-865-2403

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas  
DEC 06 2019  
WV Department of  
Environmental Protection

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**VOLUNTARY STATEMENT OF NO OBJECTION**

**Instructions to Persons Named on Page WW-6A**

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

**Comment and Waiver Provisions**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I, \_\_\_\_\_, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_, including the erosion and sediment control plan required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 524131.13  
County: Marshall Northing: 4423421.35  
District: Union Public Road Access: CR 10 Markey Lane  
Quadrangle: Moundsville, WV Generally used farm name: Hazlett  
Watershed: Short Creek - Ohio River

RECEIVED  
Office of Oil and Gas  
DEC 06 2019  
WV Department of  
Environmental Protection

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.

\*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

**FOR EXECUTION BY A NATURAL PERSON**

Signature: [Signature]  
Print Name: [Name]  
Date: 11-26-19

**FOR EXECUTION BY A CORPORATION, ETC.**

Company: \_\_\_\_\_  
By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**VOLUNTARY STATEMENT OF NO OBJECTION**

**Instructions to Persons Named on Page WW-6A**

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

**Comment and Waiver Provisions**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I, Loretta Kaye Wallace, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through \_\_\_\_\_, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524131.13</u>
County:	<u>Marshall</u>		Northing:	<u>4423421.35</u>
District:	<u>Union</u>	Public Road Access:	<u>CR 10 Markey Lane</u>	
Quadrangle:	<u>Moundsville, WV</u>	Generally used farm name:	<u>Hazlett</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p><b>FOR EXECUTION BY A NATURAL PERSON</b></p> <p>Signature: <u>Loretta Kaye Wallace</u></p> <p>Print Name: <u>Loretta Kaye Wallace</u></p> <p>Date: <u>Nov. 25, 2019</u></p> <hr/> <p><b>FOR EXECUTION BY A CORPORATION, ETC.</b></p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
---	---

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).





WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110  
 Charleston, West Virginia 25305-0430 • (304) 558-3505

Byrd E. White, III  
 Secretary of Transportation/  
 Commissioner of Highways

December 4, 2019

Jimmy Wriston, P. E.  
 Deputy Secretary/  
 Deputy Commissioner

James A. Martin, Chief  
 Office of Oil and Gas  
 Department of Environmental Protection  
 601 57<sup>th</sup> Street, SE  
 Charleston, WV 25304

Subject: DOH Permit for the Hazlett Pad A, Marshall County  
 Hazlett A -M10H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0433 which has been issued to Chevron Appalachia, LLC for access to the State Road for a well site located off Marshall County Route 10 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

RECEIVED  
 Office of Oil and Gas

DEC 06 2019

WV Department of  
 Environmental Protection

Very Truly Yours,

Gary K. Clayton, P.E.  
 Regional Maintenance Engineer  
 Central Office O&G Coordinator

Cc: Chris Rerko  
 Chevron Appalachia, LLC  
 CH, OM, D-6  
 File

### Hydraulic Fracturing Fluid Additives

Supplier	Name	Purpose
Universal	7.5% HCl Acid	Acid - To open perforations
Universal	Unislick ST50	Friction Reducer for Water and Brine (Anionic)
Universal	Scale Inhibitor A	Scale Inhibitor
Universal	Iron Control A	Iron Control
Universal	Unihib G	Corrosion Inhibitor for Acid
Universal	K-Bac 1020	Biocide/Bactericide
Universal	CMHPG (Polyfrac Gel)	Gel
Universal	LEB 10X	Gel Breaker
Universal	100 Mesh White Sand	Proppant
Universal	40-70 Mesh White Sand	Proppant

RECEIVED  
Office of Oil and Gas

DEC 06 2019

WV Department of  
Environmental Protection

# HAZLETT WELL PAD EROSION AND SEDIMENT CONTROL PLAN

MARKEY LANE (C.R.-10)  
UNION DISTRICT, MARSHALL COUNTY, WEST VIRGINIA

PREPARED FOR:

## CHEVRON APPALACHIA, LLC

700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108

APPROVED  
WVDEP OOG

11/29/2018

### CONSULTANTS

CAL & ENVIRONMENTAL CONSULTANTS, INC.  
4000 TRIUMPH LANE, SUITE 200  
EXPERT, PA 15632  
PHONE: 724-327-5200

CIVIL/SITE ENGINEER CONTACT: JOSHUA A. MACARGE  
EMAIL ADDRESS: jmac@cecinc.com

GEOTECHNICAL ENGINEER CONTACT: ARON W. LAVAGE  
EMAIL ADDRESS: avlavage@cecinc.com

### SITE COORDINATES AND WATERSHED

START OF ACCESS ROAD  
LATITUDE: 35.854753° N, LONGITUDE: 80.719023° W

END OF ACCESS ROAD  
LATITUDE: 35.852357° N, LONGITUDE: 80.717669° W

APPROXIMATE CENTER OF WELL PAD  
LATITUDE: 35.851081° N, LONGITUDE: 80.717085° W

APPROXIMATE CENTER OF WELL PAD  
LATITUDE: 35.850651° N, LONGITUDE: 80.717318° W

\*BASED ON M42 B3, WEST VIRGINIA NORTH ZONE

WATERSHED NAME: UPPER OHIO SOUTH  
RECEIVING STREAM: UNNAMED TRIBUTARIES TO LITTLE GRAVE  
CREEK

### STREAM AND WETLAND PERMANENT IMPACTS (SUBJECT TO USACE NATIONWIDE PERMIT 30)

UNIT 2 TO LITTLE GRAVE CREEK (EPH) - 72 LF

UNIT 3 TO LITTLE GRAVE CREEK (EPH) - 179 LF

UNIT 4 TO LITTLE GRAVE CREEK (EPH) - 56 LF

WETLAND 1A (PEM) - 0.008 AC

WETLAND 2 (PEM) - 0.002 AC

WETLAND 3A (PEM) - 0.078 AC

### WETLANDS WITHIN 100 LF OF THE LIMIT OF DISTURBANCE (SUBJECT TO WETLAND WAIVER REQUEST)

WETLAND 1A (PEM) - 0 FT FROM LOD

WETLAND 3A (PEM) - 0 LF FROM LOD

WETLAND 3B (PEM) - 53 LF FROM LOD

WETLAND 4 (PEM) - 1 LF FROM LOD

### REFERENCES

1. STREAMS AND WETLANDS ELABORATED BY CAL & ENVIRONMENTAL CONSULTANTS,  
INC. DATED 05/23/2017.

2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY  
THE BEDI-PHYSICS LTD. DATED 05/17/2017 TO 05/23/2017.

3. TOPOGRAPHY WITHIN THE PROJECT AREA AND BARRIED UNITS FEATURES  
SURVEYED BY CAL & ENVIRONMENTAL CONSULTANTS, INC. DATED 03/29/2017  
TO 03/30/2017 AND 05/23/2017 TO 05/25/2017. TOPOGRAPHY OUTSIDE OF  
THE PROJECT AREA IS SUPPLEMENTED WITH WEST VIRGINIA LINDA DATED 2003.

4. BACKGROUND AERIAL IMAGE FROM GOOGLE EARTH PRO, DATED 2018.

5. PROPERTY BOUNDARIES WERE PROVIDED BY CHEVRON.

Wellhead No.	Northing	Eastng	Latitude (North)	Longitude (West)
M024	534404.7077	182724.0455	39.860951	80.717459
M028	534280.5981	182727.9506	39.860812	80.717477
M030	534326.4905	182727.8565	39.860773	80.717486
M040	534362.3829	182727.7621	39.860734	80.717512
M050	534398.2743	182727.6677	39.860695	80.717529
M060	534434.1667	182727.5733	39.860656	80.717542
M070	534220.0973	182721.4789	39.860617	80.721564
M080	534305.0489	182720.3845	39.860578	80.717582
M090	534335.9605	182720.2901	39.860539	80.717601
M100	534365.8921	182720.1957	39.860500	80.717619
M110	534395.8237	182719.1013	39.860461	80.717638
M120	534425.7553	182719.0069	39.860422	80.717657
M130	534455.6869	182718.9125	39.860383	80.717676
M140	534485.6185	182718.8181	39.860344	80.717695
M150	534515.5501	182718.7237	39.860305	80.717714
M160	534545.4817	182718.6293	39.860266	80.717733
M170	534575.4133	182718.5349	39.860227	80.717752
M180	534605.3449	182718.4405	39.860188	80.717771
M190	534635.2765	182718.3461	39.860149	80.717790
M200	534665.2081	182718.2517	39.860110	80.717809
M210	534695.1397	182718.1573	39.860071	80.717828
M220	534725.0713	182718.0629	39.860032	80.717847
M230	534755.0029	182717.9685	39.860014	80.717866
M240	534784.9345	182717.8741	39.860014	80.717885
M250	534814.8661	182717.7797	39.860014	80.717904
M260	534844.7977	182717.6853	39.860014	80.717923
M270	534874.7293	182717.5909	39.860014	80.717942
M280	534904.6609	182717.4965	39.860014	80.717961
M290	534934.5925	182717.4021	39.860014	80.717980
M300	534964.5241	182717.3077	39.860014	80.717999
M310	534994.4557	182717.2133	39.860014	80.718018
M320	535024.3873	182717.1189	39.860014	80.718037
M330	535054.3189	182717.0245	39.860014	80.718056
M340	535084.2505	182716.9301	39.860014	80.718075
M350	535114.1821	182716.8357	39.860014	80.718094
M360	535144.1137	182716.7413	39.860014	80.718113



SITE LOCATION MAP  
SCALE IN FEET  
0 2000 4000

REFERENCE  
U.S.G.S. 7.5' TOPOGRAPHIC MAP, MOUNDSVILLE  
QUADANGLE, WHICH DATED: 1943, PHOTO REVISOR:  
1972 AND 1976.

SITE LIMITS OF DISTURBANCE (AC)	
WELL PAD	12.7
ACCESS ROAD	3.6
STOCKPILES	1.7
TOTAL AREA	18.0
WOODED AREA DISTURBED	2.7

LIMIT OF DISTURBANCE IMPACTS (NOW/FORMER LANDOWNERS) (AC)	
IMPACTS TO FLORENCE (RENE HAZLETT) (AC)	
WELL PAD	12.7
ACCESS ROAD	2.3
STOCKPILES	1.7
TOTAL AREA	16.7
WOODED AREA DISTURBED	2.4

IMPACTS TO TIMOTHY J. CAUSHE (AC) (MULTIPLE PARCELS)	
WELL PAD	0.0
ACCESS ROAD	1.2
STOCKPILES	0.0
TOTAL AREA	1.2
WOODED AREA DISTURBED	0.3

IMPACTS TO JARROLD L. & TAMMI KIDNEY (AC)	
WELL PAD	0.0
ACCESS ROAD	0.3
STOCKPILES	0.0
TOTAL AREA	0.3
WOODED AREA DISTURBED	0.0

DWG NO.	SHEET TITLE	INCLUDED	LAST REVISED
CS-000	COVER SHEET	X	11/01/2018
ES-000	EXISTING TOPOGRAPHIC PLAN	X	11/01/2018
ES-100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	X	10/01/2018
ES-200	EROSION AND SEDIMENT CONTROL PLAN (2 OF 2)	X	11/01/2018
ES-300	EROSION AND SEDIMENT CONTROL PLAN (3 OF 2)	X	11/01/2018
ES-400	EROSION AND SEDIMENT CONTROL PLAN (4 OF 2)	X	11/01/2018
ES-500	EROSION AND SEDIMENT CONTROL PLAN (5 OF 2)	X	11/01/2018
ES-600	EROSION AND SEDIMENT CONTROL PLAN (6 OF 2)	X	11/01/2018
ES-700	EROSION AND SEDIMENT CONTROL PLAN (7 OF 2)	X	11/01/2018
ES-800	EROSION AND SEDIMENT CONTROL PLAN (8 OF 2)	X	11/01/2018
ES-900	EROSION AND SEDIMENT CONTROL PLAN (9 OF 2)	X	11/01/2018
ES-1000	EROSION AND SEDIMENT CONTROL PLAN (10 OF 2)	X	11/01/2018
ES-1100	EROSION AND SEDIMENT CONTROL PLAN (11 OF 2)	X	11/01/2018
ES-1200	EROSION AND SEDIMENT CONTROL PLAN (12 OF 2)	X	11/01/2018
ES-1300	EROSION AND SEDIMENT CONTROL PLAN (13 OF 2)	X	11/01/2018
ES-1400	EROSION AND SEDIMENT CONTROL PLAN (14 OF 2)	X	11/01/2018
ES-1500	EROSION AND SEDIMENT CONTROL PLAN (15 OF 2)	X	11/01/2018
ES-1600	EROSION AND SEDIMENT CONTROL PLAN (16 OF 2)	X	11/01/2018
ES-1700	EROSION AND SEDIMENT CONTROL PLAN (17 OF 2)	X	11/01/2018
ES-1800	EROSION AND SEDIMENT CONTROL PLAN (18 OF 2)	X	11/01/2018
ES-1900	EROSION AND SEDIMENT CONTROL PLAN (19 OF 2)	X	11/01/2018
ES-2000	EROSION AND SEDIMENT CONTROL PLAN (20 OF 2)	X	11/01/2018
ES-2100	EROSION AND SEDIMENT CONTROL PLAN (21 OF 2)	X	11/01/2018
ES-2200	EROSION AND SEDIMENT CONTROL PLAN (22 OF 2)	X	11/01/2018
ES-2300	EROSION AND SEDIMENT CONTROL PLAN (23 OF 2)	X	11/01/2018
ES-2400	EROSION AND SEDIMENT CONTROL PLAN (24 OF 2)	X	11/01/2018
ES-2500	EROSION AND SEDIMENT CONTROL PLAN (25 OF 2)	X	11/01/2018
ES-2600	EROSION AND SEDIMENT CONTROL PLAN (26 OF 2)	X	11/01/2018
ES-2700	EROSION AND SEDIMENT CONTROL PLAN (27 OF 2)	X	11/01/2018
ES-2800	EROSION AND SEDIMENT CONTROL PLAN (28 OF 2)	X	11/01/2018
ES-2900	EROSION AND SEDIMENT CONTROL PLAN (29 OF 2)	X	11/01/2018
ES-3000	EROSION AND SEDIMENT CONTROL PLAN (30 OF 2)	X	11/01/2018

### LEGEND

EXISTING PROPERTY LINE	PROPOSED EDGE OF ACCESS ROAD	1200	PROPOSED INDEI CONTOUR	3:1	PROPOSED COMPOST FILTER SOCK (18")	EXISTING CHANNEL (TO BE UTILIZED)
EXISTING INTERMEDIATE CONTOUR	PROPOSED LIMIT OF DISTURBANCE	1:200.00	PROPOSED WELLSIDE CONTOUR	3:1	PROPOSED 18-IN COMPOST FILTER SOCK	PROPOSED CHANNEL
EXISTING PERMANENT CONTOUR	PROPOSED WELL HEAD AND CELLAR	1:200.00	PROPOSED WELLSIDE CONTOUR	3:1	PROPOSED 24-IN COMPOST FILTER SOCK	PROPOSED STORMWATER COLLECTOR
EXISTING UNPAVED ROADWAY	PROPOSED CONFINEMENT BERM	1:200.00	PROPOSED SPOT ELEVATION	3:1	PROPOSED 30-IN COMPOST FILTER SOCK	PROPOSED WELT
EXISTING PAVED ROADWAY	PROPOSED DRAINAGE	1:200.00	PROPOSED SPOT ELEVATION	3:1	PROPOSED ORANGE CONSTRUCTION FENCE	PROPOSED RIPRAP ARMOUR
EXISTING UNDERGROUND UTILITY	PROPOSED ASPHALT PAVEMENT	1:200.00	PROPOSED SPOT ELEVATION	3:1	PROPOSED SOCK CONSTRUCTION ENTRANCE	PROPOSED UNDERDRAIN
EXISTING UNDERGROUND UTILITY	PROPOSED ASPHALT PAVEMENT	1:200.00	PROPOSED SPOT ELEVATION	3:1	PROPOSED SOCK CONSTRUCTION ENTRANCE	PROPOSED EROSION CONTROL BARRIER
EXISTING UNDERGROUND UTILITY	PROPOSED ASPHALT PAVEMENT	1:200.00	PROPOSED SPOT ELEVATION	3:1	PROPOSED SOCK CONSTRUCTION ENTRANCE	PROPOSED EROSION CONTROL BARRIER
EXISTING UNDERGROUND UTILITY	PROPOSED ASPHALT PAVEMENT	1:200.00	PROPOSED SPOT ELEVATION	3:1	PROPOSED SOCK CONSTRUCTION ENTRANCE	PROPOSED EROSION CONTROL BARRIER

MISS UTILITY OF  
WEST VIRGINIA  
1-800-245-4848  
West Virginia State Law  
(Section 19) Chapter 24-C requires that you  
call two business days before  
you dig in the state of West Virginia.  
IT'S THE LAW

CEC  
Civil & Environmental Consultants, Inc.  
4000 Triumph Lane, Suite 200 - Export, PA 15622  
724.327.5200 - 800.466.3610  
www.cecinc.com

REVISION RECORD  
Date Station  
1 11/01/2018  
2 11/01/2018  
3 11/01/2018  
4 11/01/2018  
5 11/01/2018  
6 11/01/2018  
7 11/01/2018  
8 11/01/2018  
9 11/01/2018  
10 11/01/2018  
11 11/01/2018  
12 11/01/2018

HAZLETT WELL PAD  
UNION DISTRICT  
MARSHALL COUNTY, WEST VIRGINIA  
PREPARED FOR:  
CHEVRON APPALACHIA, LLC  
700 CHERRINGTON PARKWAY  
CORAOPOLIS, PA 15108

Project Number: 150189  
Drawing Scale: 1"=200'  
Date Issued: 11/29/18  
Issue Number:  
Drawn By: JMM  
Checked By: JMM  
Project Manager: JMM

CS 000