west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

March 28, 2016

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101880, issued to CHEVRON APPALACHIA, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 16H
Farm Name: WOODS, RICHARD WILEY & NA
API Well Number: 47-5101880
Permit Type: Horizontal 6A Well
Date Issued: 03/28/2016

Promoting a healthy environment.

API Number: 51-01880

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. 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.

8. 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.

9. 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.

WW-6B
(04/15)

API NO. 47-51 - 01880
OPERATOR WELL NO. 16H
Well Pad Name: Woods

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

1) Well Operator: Chevron Appalachia, LLC

49449935	Marshall	Clay	Moundsville, WV
Operator ID	County	District	Quadrangle

2) Operator's Well Number: 16H Well Pad Name: Woods

3) Farm Name/Surface Owner: Richard Wiley Woods & Nancy Jane Woods Public Road Access: CR 17 Fork Ridge Road

4) Elevation, current ground: 1135' Elevation, proposed post-construction: 1122'

5) Well Type (a) Gas X Oil ____ Underground Storage ____
Other ____
(b)If Gas Shallow X Deep ____
Horizontal X

6) Existing Pad: Yes or No No

JW 10/5/15

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6271' GL, 13' thick target zone, pressure gradient of .64 psi/ft

8) Proposed Total Vertical Depth: 6271'GL

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 10979' GL

11) Proposed Horizontal Leg Length: 2744'

12) Approximate Fresh Water Strata Depths: Deepest anticipated FW is 420'GL

13) Method to Determine Fresh Water Depths: 1 mile survey of ground water wells, stream bed elevation, and completion reports

14) Approximate Saltwater Depths: offset data (~3,000' away from well) had brine in the Salt Sands (anywhere throughout 1237-1477'GL) and Burgoon (anywhere throughout 1672-1692'GL)

15) Approximate Coal Seam Depths: Waynesburgh coal @ 366'GL and Pittsburgh coal @ 651'GL

16) Approximate Depth to Possible Void (coal mine, karst, other): No mine under the pad

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

(a) If Yes, provide Mine Info: Name: Ireland Mine
Depth: 651' GL
Seam: Pittsburgh
Owner: CONSOL

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WW-6B
(04/15)

API NO. 47- 51 - 01880
OPERATOR WELL NO. 16H
Well Pad Name: Woods

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' GL	40' GL	141 CTS
Fresh Water	13-3/8"	New	J-55	54.5#	470' GL	470' GL	350
Coal							
Intermediate	9-5/8"	New	J55	40#	1950' GL	1950' GL	610
Production	5-1/2"	New	P-110	20#	10979' GL	10979' GL	2515
Tubing							
Liners							

JN 10/5/15

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"	0.375"		NA		
Fresh Water	13-3/8"	17.5"	0.458"	2,730 psi	NA	Class A	1.2
Coal							
Intermediate	9-5/8"	12.25"	0.395"	3,950 psi	300	ClassA	1.2
Production	5-1/2"	8.5"	0.361"	12,640 psi	1500	Class A	1.2
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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API NO. 47-51 - 01880
OPERATOR WELL NO. 16H
Well Pad Name: Woods

JW 10/5/15

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

Drill 17.5" hole to ~ 500' MD ~100' below water level and set and cement 13-5/8" casing to surface covering the fresh water. Drill 12.25" hole to ~1950' and set and cement to surface 9 5/8" casing in the Squaw Shale. Drill 8.5" hole to KOP. Drill a 8.5" curve and lateral section to TD. Set 5.5" production casing and cement with TOC to surface. No pilot hole is planned.

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

Chevron will utilizing plug and perf method with 13 stages using 10,000 bbl of fluid and 400,000 lb of sand per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.68

22) Area to be disturbed for well pad only, less access road (acres): 3.62

23) Describe centralizer placement for each casing string:

Surface String: 1 Bow spring centralizer halfway through the shoe track around a stop collar, 1 Bow spring centralizer per joint over connection to base of conductor. One ridged centralizer within top 40" inside conductor. Intermediate String: 1 Bow spring centralizer halfway through the shoe track around a stop collar, and 1 bow spring centralizer over every other connection. Production casing 1 Solid Centralizer per joint to KOP, and 1 bow spring centralizer every other joint to surface after that.

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

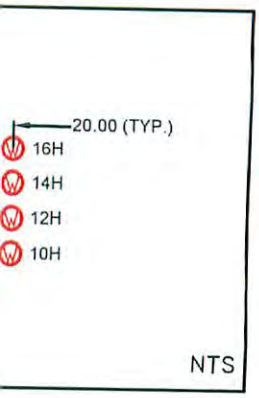
The Water and Intermediate String will contain Class A cement, up to 3% CaCl2, and flake. The tail and lead of the production cement will be class A cement with KCL, dispersant, defoamer, suspension agent, and friction reducer. The spacer will be a fly ash blend.

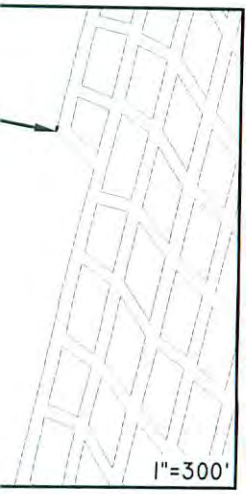
25) Proposed borehole conditioning procedures:

The well be circulated a minimum of 2 bottoms up once casing point has been reached on all hole sections.

*Note: Attach additional sheets as needed.

51-01880





WOODS 2H
COUNTY: MARSHALL
DISTRICT: CLAY
NAD 83 - WV NORTH N:508168.400 E:1629888.700 LAT:39°53'20.148" LON:80°42'24.353"
NAD 27 - WV NORTH N:508131.811 E:1661325.060 LAT:39°53'19.875" LON:80°42'25.051"
MARSHALL COUNTY MINE N:-49856.862 E:55499.338

WOODS 4H
COUNTY: MARSHALL
DISTRICT: CLAY
NAD 83 - WV NORTH N:508188.401 E:1629888.833 LAT:39°53'20.345" LON:80°42'24.355"
NAD 27 - WV NORTH N:508151.812 E:1661325.192 LAT:39°53'20.072" LON:80°42'25.053"
MARSHALL COUNTY MINE N:-49836.861 E:55499.199

WOODS 6H
COUNTY: MARSHALL
DISTRICT: CLAY
NAD 83 - WV NORTH N:508208.400 E:1629888.967 LAT:39°53'20.543" LON:80°42'24.357"
NAD 27 - WV NORTH N:508171.811 E:1661325.325 LAT:39°53'20.270" LON:80°42'25.055"
MARSHALL COUNTY MINE N:-49816.862 E:55499.060

WOODS 8H
COUNTY: MARSHALL
DISTRICT: CLAY
NAD 83 - WV NORTH N:508228.400 E:1629889.100 LAT:39°53'20.741" LON:80°42'24.358"
NAD 27 - WV NORTH N:508191.811 E:1661325.458 LAT:39°53'20.468" LON:80°42'25.056"
MARSHALL COUNTY MINE N:-49796.862 E:55498.922

WOODS 10H
COUNTY: MARSHALL
DISTRICT: CLAY
NAD 83 - WV NORTH N:508168.268 E:1629908.700 LAT:39°53'20.149" LON:80°42'24.097"
NAD 27 - WV NORTH N:508131.679 E:1661345.059 LAT:39°53'19.876" LON:80°42'24.795"
MARSHALL COUNTY MINE N:-49856.723 E:55519.337

WOODS 12H
COUNTY: MARSHALL
DISTRICT: CLAY
NAD 83 - WV NORTH N:508188.268 E:1629908.833 LAT:39°53'20.347" LON:80°42'24.098"
NAD 27 - WV NORTH N:508151.678 E:1661345.192 LAT:39°53'20.074" LON:80°42'24.796"
MARSHALL COUNTY MINE N:-49836.723 E:55519.198

WOODS 14H
COUNTY: MARSHALL
DISTRICT: CLAY
NAD 83 - WV NORTH N:508208.267 E:1629908.966 LAT:39°53'20.544" LON:80°42'24.100"
NAD 27 - WV NORTH N:508171.678 E:1661345.324 LAT:39°53'20.271" LON:80°42'24.798"
MARSHALL COUNTY MINE N:-49816.724 E:55519.059

WOODS 16H
COUNTY: MARSHALL
DISTRICT: CLAY
NAD 83 - WV NORTH N:508228.267 E:1629909.100 LAT:39°53'20.742" LON:80°42'24.102"
NAD 27 - WV NORTH N:508191.678 E:1661345.457 LAT:39°53'20.469" LON:80°42'24.800"
MARSHALL COUNTY MINE N:-49796.724 E:55518.921

GENERAL NOTES:

ALL DIMENSIONS RELATED TO COAL LOCATION (EXISTING AND/OR PROPOSED)ARE BASED ON INFO PROVIDED BY MURRAY ENERGY. THIS INFO MAY NOT BE CURRENT WITH MINING PLANS. ANY QUESTIONS OR CONCERNS PERTAINING TO THE LOCATION OF COAL SHOULD BE DIRECTED TO MURRAY ENERGY.

NOTE: DRAWING WAS CREATED ON 8.5X14 INCH PAPER.

Blue Mountain Inc.
Engineers and Land Surveyors
11023 Mason Dixon Hwy

CHEVRON APPALACHIA, INC.
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

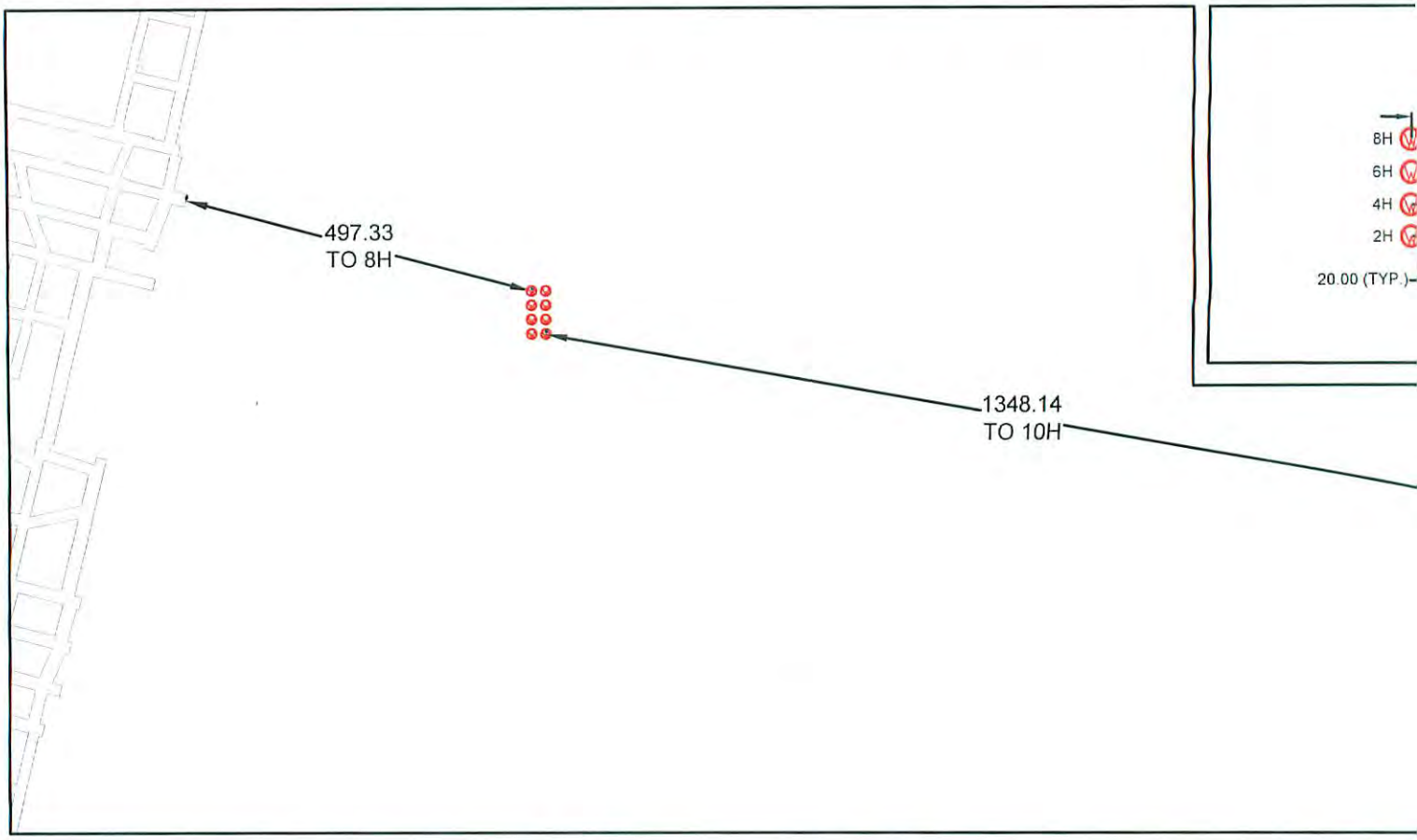
WOODS EXHIBIT

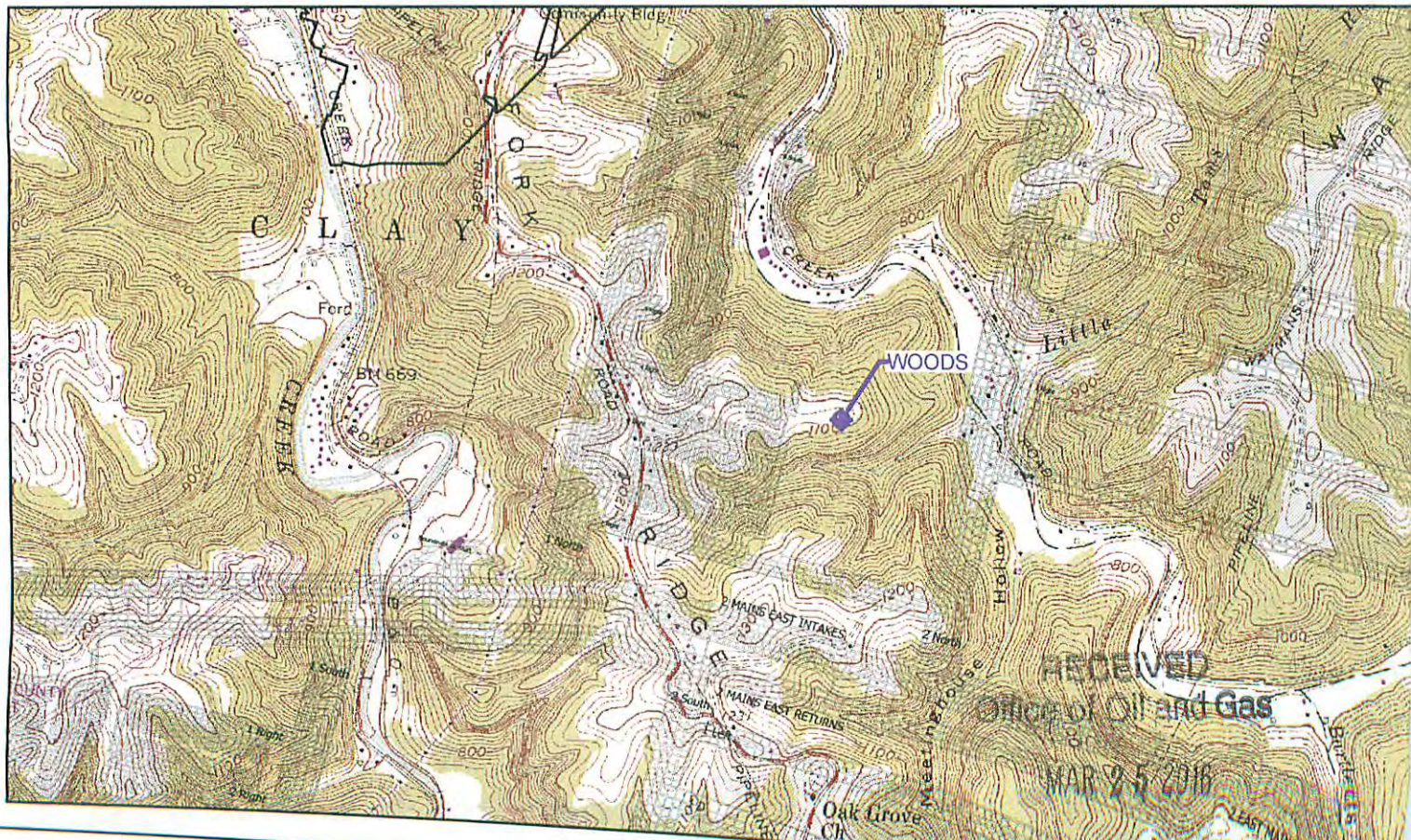
REVISIONS

DATE	TYPE
2/24/15	UPDATED WELL NUMBERS

DRAWN BY: DEC
CHECKED BY: MCH
DATE: 11/20/14
SCALE: AS NOTED
JOB NO.: 1072-14
DRAWING NAME: WOODS_SHL_FINAL_COAL_EXHIBIT

SHEET NO. 1





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CEMENT ADDITIVES

The Water and Intermediate String will contain Class A cement, up to 3% $CaCl_2$, and flake.

The tail and lead of the production cement will be class A cement with KCL, dispersant, defoamer, suspension agent, and friction reducer.

The spacer will be a fly ash blend.

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Woods 16H

Marshall County, WV
10/27/2015 8:41

Ground Level Elev. (ft above SL): 1123
Rig KB (ft above GL): 32

DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE	TVD GL (FT)	TVD KB (FT)	WELLHEAD DESIGN FMC UH-2 13-5/8"	HOLE SIZE (IN)	MD KB (FT)	CASING SPECS
Core Barrel / Auger		30" Conductor	40	72		36	55	**Conductor** Minimum 40 ft from GL or at least 10 ft into bedrock
Air DRL with Mist and additives	Bow Spring 1 centralizer on shoe track around stop collar 1 centralizer per joint over coupling	13-3/8" Casing	470	502		18	502	**Surface Casing** 13-3/8" 54.5# J-55 BTC 0.38" Wall Coupling OD (in) 14-3/8 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853 Capacity (bbl/ft) 0.1546 Annulus (bbl/ft) 0.0488 Minimum 50 ft past deepest known fresh water
Air DRL with Mist and additives or Fluid Drill on SBM	Bow Spring 1 centralizer on shoe track around stop collar 1 centralizer every other joint over coupling	9-5/8" Casing	1,950	1,982		12.250	1,982	**Intermediate Casing** 9-5/8" 40# J-55 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 3,950 Collapse (psi) 2,570 Yield (Jt Strength 1,000 lbs) 630 Capacity (bbl/ft) 0.0758 Annulus (bbl/ft) 0.0558 Set below the 50 ft Sand
Fluid Drilled on SBM	Vertical Bow Spring 1 centralizer every other joint over coupling Curve and lateral Solid composite 1 centralizer per joint	KOP	5,464	5,496			5,663	**Production Casing** 5-1/2" 20# P-110, VAM 0.361" Wall Coupling OD (in) 6.051 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 12628 Collapse (psi) 13300 Yield (Jt Strength 1,000 lbs) 641 Capacity (bbl/ft) 0.0222 Annulus (bbl/ft) 0.0408
		Middlesex	6,029	6,061				
		Burkett Shale	6.105	6.137				
		Tully Limestone	6.125	6.157				
		Hamilton shale	6.159	6.191				
		Upper Marcellus	6.239	6,271				
		Lower Marcellus	6,258	6,290				
		Landing point	6,271	6,303			8270	
		Basal Marcellus	6,283	6,315				
		5-1/2" Casing				8.500	11,011	

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WW-9
(2/15)

API Number 47 - 051 - 01880
Operator's Well No. 16H

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) Middle Grave Creek - Grave Creek Quadrangle Moundsville, WV 7.5'

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

Will a pit be used? Yes ☐ No ✓

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated 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. Shale Shakers, to Drying Shakers, to the Sand Trap, to the Active Mud System.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. The cuttings will be mixed off on location and trucked off in half rounds

-If oil based, what type? Synthetic, petroleum, etc. Surface/Intermediate will be planned to drill on air. Production will be drilled on SBM. If issues are encountered. The intermediate section may be drilled on SBM.

Additives to be used in drilling medium? Yes, syntheic oil based mud

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Fluid loss control, emulsifier, and shale stabilizer.

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

-Landfill or offsite name/permit number? Arden Landfill - Permit # 100172; South Hills Landfill - Permit # 100592

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 Jenny Hayes

Company Official (Typed Name) Jenny Hayes

Company Official Title Permitting Team Lead

Subscribed and sworn before me this 2nd day of October, 20 15

Kristen Brooks Notary Public

My commission expires Sept 2, 2018

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WV Department of Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kristen Brooks, Notary Public
Smithfield Boro, Fayette County
My Commission Expires Sept. 2, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

51-01880

Form WW-9

Operator's Well No. 16H

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 14.68 Prevegetation pH 6.4

Lime 1.5 Tons/acre or to correct to pH

Fertilizer type 20-10-10

Fertilizer amount 800 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Type B Mix	65	Type B Mix	65
Type D Mix	20	Type D Mix	20

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Nicholson

Comments:

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Environmental Protection

Title: Oil & Gas Inspector Date: 10/5/15

Field Reviewed? (✓) Yes ( ) No

51-01880

Chevron

Appalachian LLC
WV Well Site Safety Plan
Pad: Woods Pad A
Well #16H

JW 10/5/15

FORKS RIDGE ROAD
MOUNDSVILLE, WV
26041 CLAY DISTRICT
MARSHALL COUNTY,
WV

Access Point - [39.889003°N, -80.715417°W] Well Site - [39.889111°N, 80.707103°W]

Marshall County, West Virginia

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WW-6A1
(5/13)

Operator's Well No. Woods 16H

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				

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: Jenny Hayes
Its: Permitting Team Lead

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Woods 16H

QLS #	Tag	Parcel	Lessor	Lessee	Royalty	DB/P or instrument #	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3	well #
938402	(A) C)	4-3-51, 4-3-51.2	DONNA M. LOGSDON	CHEVRON USA INC	12.5 minimum	861/640	n/a	n/a	n/a	16H
936890	B	4-3-51.3	ROGER W. LONG	CHEVRON USA INC	12.5 minimum	859/036	n/a	n/a	n/a	16H
923078	D	14-12-65	Yoho, Paul David - SFX	CHEVRON USA INC	12.5 minimum	836/312	n/a	n/a	n/a	16H
923079	D	14-12-65	McWhorter, Shirley - SFX	CHEVRON USA INC	12.5 minimum	836/263	n/a	n/a	n/a	16H
923080	D	14-12-65	Glover, Irene - SFX	CHEVRON USA INC	12.5 minimum	838/425	n/a	n/a	n/a	16H
923081	D	14-12-65	Yoho, Carl Wayne - SFX	CHEVRON USA INC	12.5 minimum	835/085	n/a	n/a	n/a	16H
923173	D	14-12-65	Gaughan, Carolyn - SFX	CHEVRON USA INC	12.5 minimum	838/432	n/a	n/a	n/a	16H
923261	D	14-12-65	Yoho-White, Jill - SFX	CHEVRON USA INC	12.5 minimum	836/305	n/a	n/a	n/a	16H
867943	E	14-12-64	KENNETH GRAY	TriEnergy Holdings, LLC	12.5% minimum	720/610	25/463 - TriEnergy Holdings, LLC to NPAR, LLC	756/307 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
867536	F	14-12-64.14	WILLIAM V. HILL	TriEnergy Holdings, LLC	12.5% minimum	711/256	24/430 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
867536	G	14-12-64.12	WILLIAM V. HILL	TriEnergy Holdings, LLC	12.5% minimum	711/256	24/430 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
922791	(H) (I)	14-12-48 14-12-48.1	MARK ELDRED MCCARTNEY	CHEVRON USA INC	12.5 minimum	595/600	n/a	n/a	n/a	16H
868528	(H) (I)	14-12-48 14-12-48.1	Huntsman, Jack - SFX	TriEnergy Holdings, LLC	12.5 minimum	737/439	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
868529	(H) (I)	14-12-48 14-12-48.1	Neidert, Lois - SFX	TriEnergy Holdings, LLC	12.5 minimum	737/452	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
868530	(H) (I)	14-12-48 14-12-48.1	Horvat, Rudolph E. - SFX	TriEnergy Holdings, LLC	12.5 minimum	737/508	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
868558	(H) (I)	14-12-48 14-12-48.1	Knight, Karen - SFX	TriEnergy Holdings, LLC	12.5 minimum	741/476	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
904931	(H) (I)	14-12-48 14-12-48.1	Dankmer, Larry - SFX	TriEnergy Holdings, LLC	12.5 minimum	742/051	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a	16H
904933	(H) (I)	14-12-48 14-12-48.1	Fahey, Rebecca Sue - SFX	TriEnergy Holdings, LLC	12.5 minimum	742/032	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a	16H
904934	(H) (I)	14-12-48 14-12-48.1	Reynolds, Tammy L. - SFX	TriEnergy Holdings, LLC	12.5 minimum	742/037	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a	16H
904936	(H) (I)	14-12-48 14-12-48.1	Moffitt, Vickie L. - SFX	TriEnergy Holdings, LLC	12.5 minimum	742/059	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a	16H
905153	(H) (I)	14-12-48 14-12-48.1	Dankmer, Edward A. - SFX	TriEnergy Holdings, LLC	12.5 minimum	742/044	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a	16H
905274	(H) (I)	14-12-48 14-12-48.1	Jones, Kathy Lee - SFX	TriEnergy Holdings, LLC	12.5 minimum	742/024	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a	16H
919049	(H) (I)	14-12-48 14-12-48.1	McPeek, Dorothy - SFX	CHEVRON USA INC	12.5 minimum	811/579	n/a	n/a	n/a	16H
919054	(H) (I)	14-12-48 14-12-48.1	Murdock, Delores - SFX	CHEVRON USA INC	12.5 minimum	811/596	n/a	n/a	n/a	16H
919115	(H) (I)	14-12-48 14-12-48.1	Catlett, John - SFX	CHEVRON USA INC	12.5 minimum	811/613	n/a	n/a	n/a	16H
919116	(H) (I)	14-12-48 14-12-48.1	Catlett, Karen - SFX	CHEVRON USA INC	12.5 minimum	811/562	n/a	n/a	n/a	16H
919168	(H) (I)	14-12-48 14-12-48.1	McPeek, Patricia - SFX	CHEVRON USA INC	12.5 minimum	814/565	n/a	n/a	n/a	16H
919179	(H) (I)	14-12-48 14-12-48.1	Wells, Frank - SFX	CHEVRON USA INC	12.5 minimum	814/422	n/a	n/a	n/a	16H
920258	(H) (I)	14-12-48 14-12-48.1	Polinski, John - SFX	CHEVRON USA INC	12.5 minimum	815/429	n/a	n/a	n/a	16H
920273	(H) (I)	14-12-48 14-12-48.1	Polinski, Kevin - SFX	CHEVRON USA INC	12.5 minimum	815/412	n/a	n/a	n/a	16H

QLS #	Tag	Parcel	Lessor	Lessee	Royalty	DB/P or instrument #	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3	well #
923260	(H) (I)	14-12-48 14-12-48.1	Polinski, Melvin - SFX	CHEVRON USA INC	12.5 minimum	839/043	n/a	n/a	n/a	16H
934437	(H) (I)	14-12-48 14-12-48.1	Piccin, Micheline - SFX	CHEVRON USA INC	12.5 minimum	859/184	n/a	n/a	n/a	16H
934572	(H) (I)	14-12-48 14-12-48.1	Benczo, Roy E. - SFX	CHEVRON USA INC	12.5 minimum	847/599	n/a	n/a	n/a	16H
934658	(H) (I)	14-12-48 14-12-48.1	Dombo, James - SFX	CHEVRON USA INC	12.5 minimum	847/174	n/a	n/a	n/a	16H
934862	(H) (I)	14-12-48 14-12-48.1	Huntsman, Jack - SFX	CHEVRON USA INC	12.5 minimum	847/616	n/a	n/a	n/a	16H
935266	(H) (I)	14-12-48 14-12-48.1	Siebel, Mary - SFX	CHEVRON USA INC	12.5 minimum	853/086	n/a	n/a	n/a	16H
935268	(H) (I)	14-12-48 14-12-48.1	Stallings, Rory A. - SFX	CHEVRON USA INC	12.5 minimum	853/110	n/a	n/a	n/a	16H
935391	(H) (I)	14-12-48 14-12-48.1	Reynolds, Tamra - SFX	CHEVRON USA INC	12.5 minimum	861/074	n/a	n/a	n/a	16H
867463	J	14-12-43	PAUL ROBERT CLARK	TriEnergy Holdings, LLC	12.5 minimum	707/387	24/180 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
867463	K	14-12-44.1	PAUL ROBERT CLARK	TriEnergy Holdings, LLC	12.5 minimum	707/387	24/180 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	n/a	16H
923638	L	14-12-44	NILA WILLIS	CHEVRON USA INC	12.5% minimum	835/52	n/a	n/a	n/a	16H
905242	M	14-12-42	JOHN H. ANDERSON	TriEnergy Holdings, LLC	12.5 minimum	765/233	28/348 -TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a	16H
935163	N	4-4-63.3	JOHN Z. GARRISON	CHEVRON USA INC	12.5 minimum	853/263	n/a	n/a	n/a	16H
866559	O	4-4-63	LINDA WOOD	TriEnergy, Inc.	12.5 minimum	748/276	19/623 -TriEnergy, Inc. to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	n/a	16H
866562	P	4-4-61	WOODS, RICHARD WILEY ET UX	TriEnergy, Inc.	12.5 minimum	727/5	19/138 - TriEnergy, Inc. to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	n/a	16H

51-01880

Phillip Khoury
Land representative
Appalachian/Michigan SBU

Chevron North America Exploration and Production Company
(a Chevron U.S.A. Inc. division)
1550 Coraopolis Heights Road
Moon Township, PA 15108
Tel 412 262 2830
pkhoury@chevron.com

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

October 12, 2015, 2015

RE: Woods 2H, 14H, 16H,

To whom it may concern,

This letter is to confirm that Chevron Appalachia, LLC owns 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,

Phillip Khoury
Land Representative

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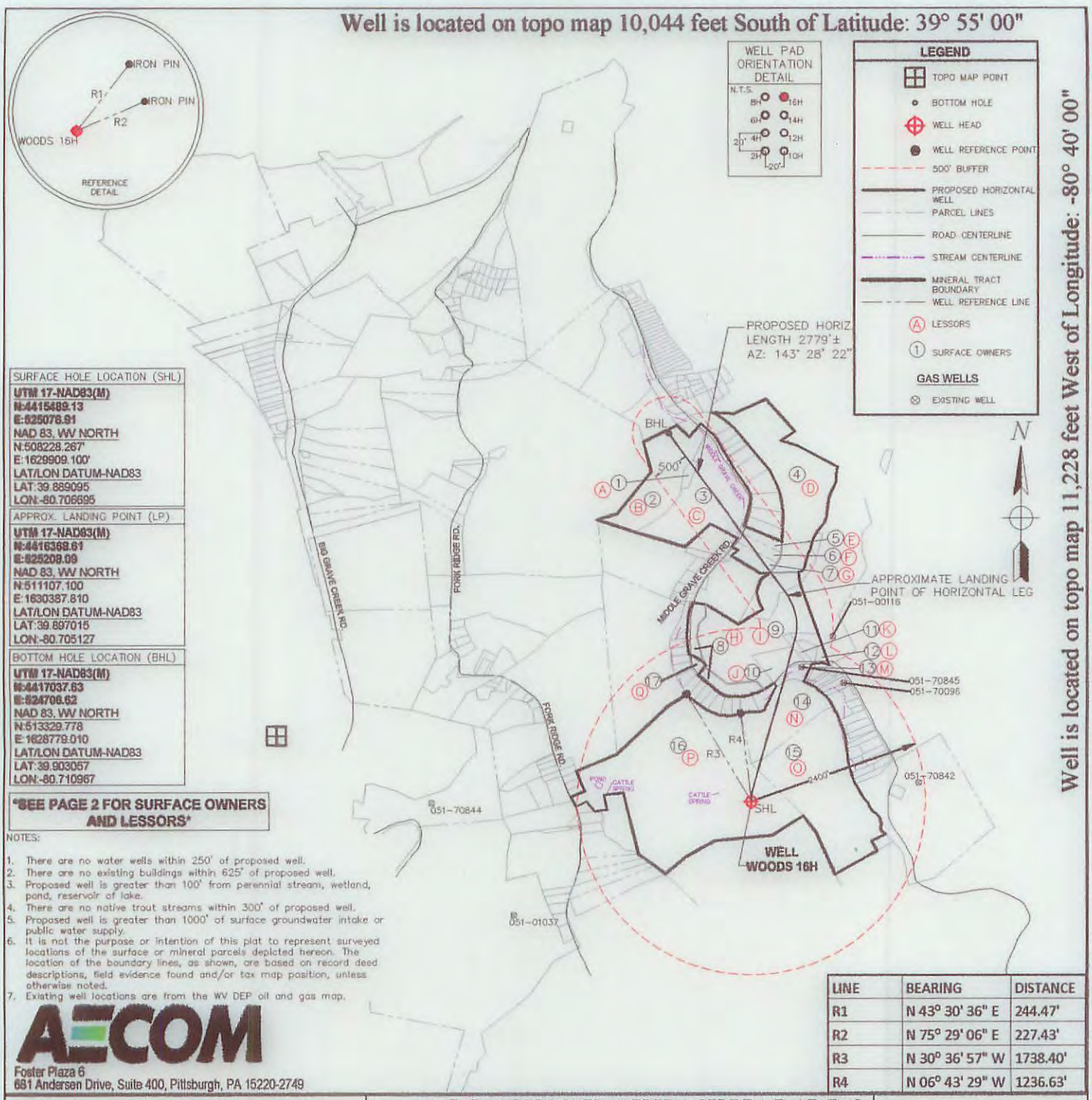
Environmental Protection

Well is located on topo map 10,044 feet South of Latitude: 39° 55' 00"

Well is located on topo map 11,228 feet West of Longitude: -80° 40' 00"



SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4415489.13
E:525078.91
NAD 83, WV NORTH
N:508228.267'
E:1629909.100'
LAT/LON DATUM-NAD83
LAT:39.889095
LON:-80.706695

APPROX. LANDING POINT (LP)
UTM 17-NAD83(M)
N:4416368.61
E:525208.09
NAD 83, WV NORTH
N:511107.100
E:1630387.810
LAT/LON DATUM-NAD83
LAT:39.897015
LON:-80.705127

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4417037.63
E:524706.62
NAD 83, WV NORTH
N:513329.778
E:1628779.010
LAT/LON DATUM-NAD83
LAT:39.903057
LON:-80.710967

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

NOTES:

1. There are no water wells within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' of surface groundwater intake or public water supply.
6. 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.
7. Existing well locations are from the WV DEP oil and gas map.

AECOM
Foster Plaza 6
681 Andersen Drive, Suite 400, Pittsburgh, PA 15220-2749

LINE	BEARING	DISTANCE
R1	N 43° 30' 36" E	244.47'
R2	N 75° 29' 06" E	227.43'
R3	N 30° 36' 57" W	1738.40'
R4	N 06° 43' 29" W	1236.63'

FILE #: WOODS 16H

DRAWING #: WOODS 16H

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1" = 2500'

PROVEN SOURCE OF ELEVATION: USGS Benchmark JX-0731

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: David P. Povich

R.P.E.: _____ L.L.S.: 2169

DAVID P. POVICH LICENSED No. 2169 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: December 21, 2015

OPERATOR'S WELL #: WOODS 16H

API WELL #: 47 (STATE) 51 (COUNTY) 01880 (PERMIT) HGA

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1135.42'

COUNTY/DISTRICT: MARSHALL/CLAY QUADRANGLE: USGS 7.5' MOUNDSVILLE, WV

SURFACE OWNER: RICHARD WILEY WOODS & NANCY JANE WOODS ACREAGE: 96.4 ±

OIL & GAS ROYALTY OWNER: RICHARD WILEY WOODS & NANCY JANE WOODS ACREAGE: 287.0 ±

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: 6271'± TMD: 10,979'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

47-051-01880 H6A

WOODS PROJECT
LATERAL 16H SHORT
PAGE 2 OF 2

MINERAL OWNER	TAG	TAG	DEED BOOK/PAGE	SURFACE OWNER	DISTRICT TAX MAP PARCEL NO.
DONNA M. LOGSDON	A	1	WB81-383	DONNA M. LOGSDON	4-3-51.2
ROGER W. LONG	B	2	578-37	ROGER W. LONG	4-3-51.3
DONNA M. LOGSDON	C	3	578-401	DONNA M. LOGSDON	4-3-51
CARL YOHO, ET AL	D	4	807-547	DELBERT M. VAN SCYOC	14-12-65
KENNETH GRAY	E	5	585-403	KENNETH GRAY	14-12-64
WILLIAM V. HILL	F	6	584-120	WILLIAM V. HILL	14-12-64.14
WILLIAM V. HILL	G	7	578-158	WILLIAM V. HILL	14-12-64.12
RUDOLPH E. HORVAT / MARK ELDRED MCCARTNEY, ET AL	H	8	398-529	STATE ROAD COMMISSION	14-12-48.1
RUDOLPH E. HORVAT / MARK ELDRED MCCARTNEY, ET AL	I	9	595-600	MARK ELDRED MCCARTNEY	14-12-48
PAUL ROBERT CLARK	J	10	344-132	PAUL ROBERT CLARK	14-12-43
PAUL ROBERT CLARK	K	11	609-563	PAUL ROBERT CLARK	14-12-44.1
NILA WILLIS	L	12	609-563	NILA WILLIS	14-12-44
JOHN H. ANDERSON	M	13	735-479	PATRICIA L. STOUT	14-12-42
JOHN Z. GARRISON	N	14	617-432	JOHN Z. GARRISON	4-4-063.3
LINDA WOOD	O	15	WB76-267	LINDA WOOD	4-4-063
RICHARD AND NANCY WOOD	P	16	538-585	RICHARD AND NANCY WOOD	4-4-61
PHYLIS C. HARTLEY	Q	17	403-397	STATE ROAD COMMISSION	14-12-61

AECOM
Foster Plaza 6
681 Andersen Drive, Suite 400, Pittsburgh, PA 15220-2749

WW-6AC
(1/12)

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

Date of Notice Certification: 10/12/2015

API No. 47- 51 - 01880
Operator's Well No. 16H
Well Pad Name: Woods

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:	West Virginia	UTM NAD 83	Easting:	525076.91
County:	Marshall		Northing:	4415489.13
District:	Clay	Public Road Access:		CR 17 Fork Ridge Road
Quadrangle:	Moundsville, WV 7.5'	Generally used farm name:		Woods
Watershed:	Middle Grave Creek - Grave Creej			

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.

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: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☒ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☒ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED
☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
☒ 4. NOTICE OF PLANNED OPERATION	☐ RECEIVED
☒ 5. PUBLIC NOTICE	☐ RECEIVED
☒ 6. NOTICE OF APPLICATION	☐ RECEIVED

RECEIVED
Office of Oil and Gas
JAN 07 2016
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.

WW-6AC
(1/12)

51-01880

Certification of Notice is hereby given:

THEREFORE, I Jenny Hayes, 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:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
By:	Jenny Hayes		Smithfield, PA 15478
Its:	Permitting Team Lead	Facsimile:	724-564-3894
Telephone:	724-564-3781	Email:	

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kristen Brooks, Notary Public
Smithfield Boro, Fayette County
My Commission Expires Sept. 2, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 12th day of Oct, 2015.

Kristen Brooks Notary Public

My Commission Expires Sept 2, 2018.

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.

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Environmental Protection

WW-6A
(9-13)

API NO. 47- 51 - 01880
OPERATOR WELL NO. 16H
Well Pad Name: Woods

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: 9/29/2015 **Date Permit Application Filed:** 10-28-15

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.

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Office of Oil and Gas
JAN 07 2016
WV Department of
Environmental Protection

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

☑ SURFACE OWNER(s)
Name: Richard Wiley Woods & Nancy Jane Woods
Address: 2588 Fork Ridge Road
Moundsville, WV 26041
Name:
Address:

☐ 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: Consolidated Coal Company
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

☑ COAL OPERATOR
Name: Murray Energy Corporation
Address: 46226 National Road
St. Clairsville, OH 43950

☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name:
Address:

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name:
Address:

*Please attach additional forms if necessary

WW-6A
(8-13)

API NO. 47- 51 - 01880
OPERATOR WELL NO. 16H
Well Pad Name: Woods

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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

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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.

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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 57th 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.**

WW-6A
(8-13)

API NO. 47- 51 - 01880
OPERATOR WELL NO. 16H
Well Pad Name: Woods

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.

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WW-6A
(8-13)

API NO. 47- 51 - 01880
OPERATOR WELL NO. 16H
Well Pad Name: Woods

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 800 Mountain View Drive
Smithfield, PA 1547
Telephone: 724-564-3700
Email:
Facsimile: 724-564-3894

Jenny Hayes

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.

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kristen Brooks, Notary Public
Smithfield Boro, Fayette County
My Commission Expires Sept. 2, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 29th day of Sept, 2015.

Kristen Brooks Notary Public

My Commission Expires Sept 2, 2018.

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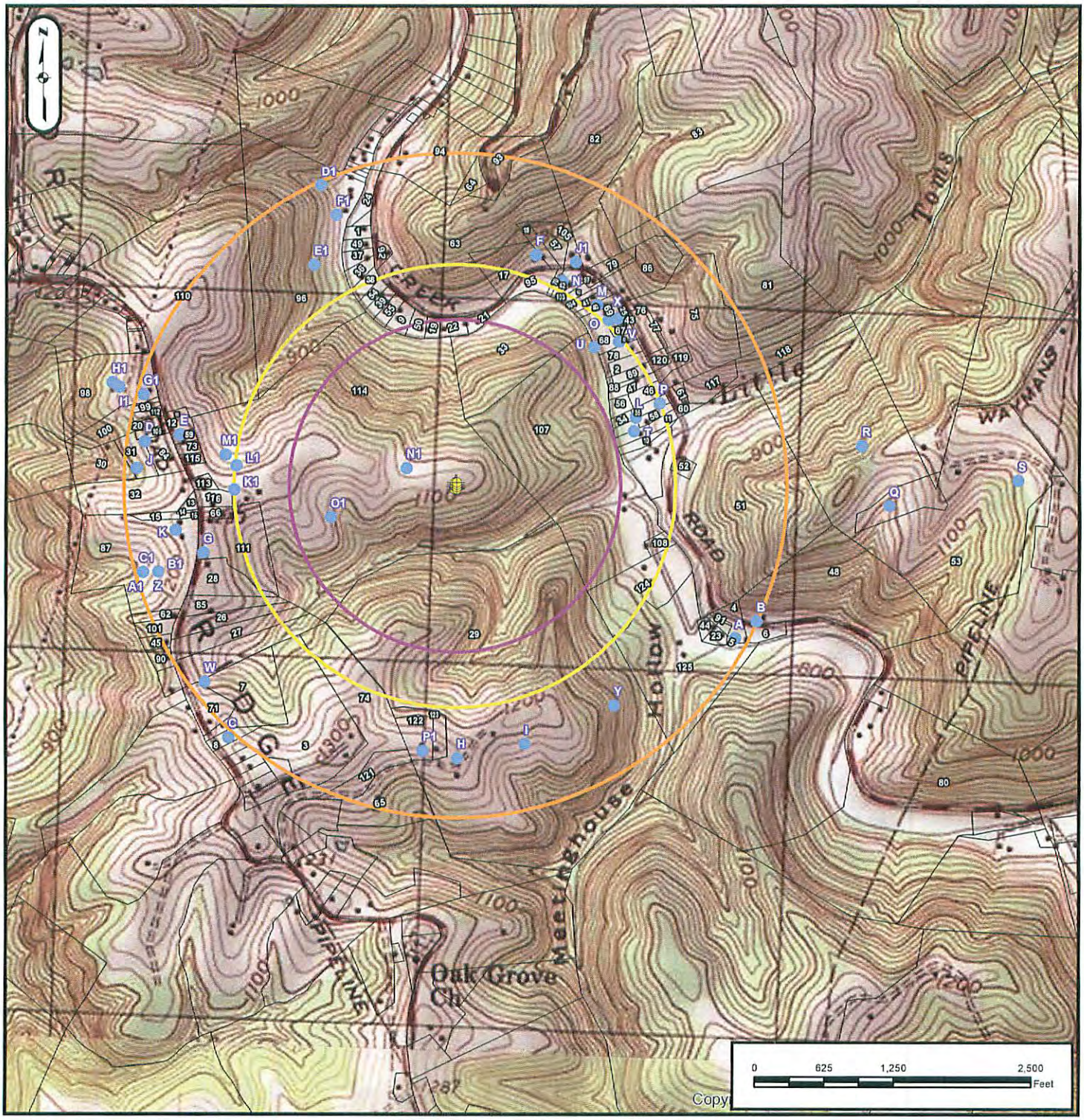
WATER SUPPLY EXHIBIT
WOODS

Date: 4/30/2015

Blue Mountain Inc.



SURFACE OWNER:	WOODS, RICHARD WILEY	COUNTY:	MARSHALL
OIL/GAS OWNER:	WOODS, RICHARD WILEY	DISTRICT:	CLAY
WELL OPERATOR:	CHEVRON APPALACHIA, LLC	SURVEYOR:	BLUE MOUNTAIN INC.
ADDRESS:	800 MOUNTAIN VIEW DRIVE SMITHFIELD, PA 15478	ADDRESS:	10125 MASON DIXON HIGHWAY BURTON, WV 26562
PHONE:	724-564-3700	PHONE:	304-662-6486

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WATER SUPPLY EXHIBIT
WOODS

Date: 4/24/2015

Blue Mountain Inc.

#	TAX MAP #	NAME (last name first)
1	14-12-6	ALLEN, RONALD E. & VERLA M.
2	14-13-45	BLAKE, NANCY E.
3	4-4-58.9	BLAKEMORE, DAVID E.
4	14-13-24	BOOTH, ESTHER M. & STEPHEN R.
5	14-13-28.1	BOOTH, ESTHER M. & STEPHEN R.
6	14-13-23	BOOTH, ESTHER M. & STEPHEN R.
7	4-4-54	CARMICHAEL, MATTHEW A.
8	4-4-56	CARMICHAEL, MATTHEW A.
9	14-12-53	CARR, MICHAEL J.
10	14-13-26.2	CARROLL, SHAWN M. & CHARITY J.
11	14-13-32	CARROLL, SHAWN M. & CHARITY J.
12	4-4-61.2	CLARK, BRADLEY C. & MARY ANN
13	4-4-52	CLARK, MARY LOU LIFE ESTATE
14	4-4-52.1	CLARK, MARY LOU LIFE ESTATE
15	4-4-52.2	CLARK, MARY LOU LIFE ESTATE
16	4-4-53.9	CLARK, MARY LOU LIFE ESTATE
17	14-12-43	CLARK, PAUL ROBERT
18	14-12-44.1	CLARK, PAUL ROBERT
19	14-12-51	COOK, KENNETH R.
20	4-4-46	COTTRELL, ERIC S. & ASHLEY R.
21	14-12-49	COX, WILLIAM F.
22	14-12-50	CROW FAMILY IRREVOCABLE TRUST
23	14-13-28	CROW, KELLIE E. & TODD R.
24	14-12-62	CROW, NORMAN E.
25	14-12-62.1	CROW, NORMAN E.
26	4-4-53.13	DOBBS, MICHAEL W. & JO ANN
27	4-4-53.11	DOBBS, MICHAEL W. & JO ANN
28	4-4-53.8	DUFFY, JOHN E.
29	4-4-60	DULANEY, TIMOTHY S. & SHIRLEY M.
30	4-4-48	EDDY, RICKEY L. & HELEN L.
31	4-4-49	EDDY, RICKEY L. & HELEN L.
32	4-4-51	EDDY, RICKEY L. & HELEN L.
33	4-4-63.3	GARRISON, JOHN Z.
34	14-13-29	GEMENSKY, MICHAEL S.
35	14-13-34	GEMENSKY, MICHAEL S.
36	14-12-57	GOULDSBERRY, DAVID W.
37	14-12-58	GOULDSBERRY, DAVID W.
38	14-12-56	GOULDSBERRY, HARLEY E.
39	14-12-54.1	HARRIGAN, JOHN W. JR.
40	14-12-40.2	HEATH, SHARON & WILKERSON, FREDERICK W.
41	14-12-40	HEATH, SHARON & WILKERSON, FREDERICK W.
42	14-12-41	HEATH, SHARON & WILKERSON, FREDERICK W. ~~ENGLEHART, GREGORY B.~~
43	14-13-37	HEATH, SHARON & WILKERSON, FREDERICK W. ~~MIDDLE GRAVE CREEK CHURCH OF GOD~~
44	14-13-27	HELMS, WILLIAM D.SR. & DONNA C.
45	4-4-53.3	HESS, PAUL BRADLEY
46	14-13-43	JASENEC, JEREMY J.
47	14-13-1	JASENEC, JEREMY J.
48	14-13-22	JOHNSON, EVELYN R.
49	14-12-59	JONES, JAMES R.
50	14-12-52	KASUN, MATTHEW J.
51	14-13-26	KELCH, JENNIFER
52	14-13-26.1	KELCH, JENNIFER
53	14-13-2	KETTLER, TODD & DAWN
54	14-12-55	KIDD, LARRY D., DONNY K. & RICKY
55	14-12-54	LAVENSKI, JOHN S.
56	14-13-44	LEMASTERS, HAROLD D. & MINNIE LIFE ESTATE
57	14-12-44.2	LIGHTNER, ROBERT H.
58	14-13-33	LILLEY, LARRY D.
59	4-4-61.4	LOY, EUGENE P. JR.
60	14-13-41.1	MARTIN, RICHARD L. & DARLENE K.
61	14-13-41.2	MARTIN, RICHARD L. & DARLENE K.
62	4-4-53.7	MASON, KEVIN A. & TRACY L.
63	14-12-48	MCCARTNEY, MARK E.
64	14-12-63.7	MCCARTNEY, MARK E.
65	4-4-58.14	MOGARY, JUDITH L.
66	4-4-53.6	MERCER, CALVIN P.
67	14-13-35	MIDDLE GRAVE CREEK CHURCH OF GOD
68	14-13-1.2	MIDDLE GRAVE CREEK CHURCH OF GOD
69	14-12-38	MIDDLE GRAVE CREEK CHURCH OF GOD
70	14-12-39	MIDDLE GRAVE CREEK CHURCH OF GOD ~~WILKERSON, FRED S.~~
71	4-4-55	MILLER, GLENN R.
72	14-13-39	MINEAR, DELORES K.
73	4-4-61.6	MYERS, GARY E.
74	4-4-58.1	OCH, JOHN H. III
75	14-12-35	ONEIL, CAROL S.
76	14-12-35.2	ONEIL, CAROL S. & WARREN W.
77	14-12-35.5	ONEIL, CAROL S. & WARREN W.
78	14-13-1.3	OSTRANDER, RACHEL
79	14-12-37.1	OTT, RODNEY, L.
80	14-13-20	PARRIOTT, JOSEPH D.
81	14-12-34	PARSONS, HENRY T. ESTATE
82	14-12-45	PARSONS, HENRY T. ESTATE
83	14-12-33	PARSONS, HENRY T. ESTATE
84	4-4-50	PARSONS, LEROY E. & KIMBERLY
85	4-4-53.12	RIGGLE, DONALD & CAROL ~~GARDNER, CAROL R.~~
86	14-12-37	ROGERS, KEVIN W. JR. & REBECCA
87	4-4-53.1	SCHWING, GREGORY L.
87	4-4-52.1	SCHWING, GREGORY L.
88	14-13-1.1	SHUTLER, MICHAEL J.
89	14-13-40	SHUTLER, MICHAEL J.
90	4-4-53.2	STANDIFORD, VIOLET P.
91	14-13-25	STATE ROAD COMMISSION
92	14-12-61	STATE ROAD COMMISSION
93	14-12-48.1	STATE ROAD COMMISSION
94	14-12-63	STOUT, MARK G.
95	14-12-42	STOUT, PATRICIA L.
96	4-4-62.4	TAYLOR, JAMES W. & KELLY R.
97	14-12-41.1	UPDEGRAFF, JAMES G. & BARBARA
98	4-4-44	UTTER, VINCENT C. & FAYNELL
99	4-4-44.1	WADE, DELBERT L. JR.
100	4-4-44.2	WADE, DELBERT L. JR.
101	4-4-53.4	WAYNE, RETTA J.
102	14-12-41.2	WILKERSON, FRED S.
103	14-12-41.3	WILKERSON, FRED W.
104	14-12-40.1	WILKERSON, FRED W. & FRED S.
105	14-12-44	WILLIS, NILA L.
106	4-4-47	WOJTOWICX, JULIE A.
107	4-4-63	WOOD, LINDA
108	4-4-63.2	WOOD, LINDA
109	4-4-61.3	WOODS, ARTHUR R.
110	4-4-61.1	WOODS, HAZEL J. ESTATE - CONTACT RETTA WAYNE
111	4-4-53	WOODS, HAZEL J. ESTATE - CONTACT RETTA WAYNE
112	4-4-45	WOODS, KIMBERLY J. & ARTHUR R.
113	4-4-61.8	WOODS, RICHARD T.
114	4-4-61	WOODS, RICHARD WILEY
115	4-4-61.5	WOODS, RICHARD WILEY
116	4-4-61.7	WOODS, TIMOTHY J. & ELIZABETH
117	14-13-42	YOHO, RICHARD C. & CARLA V.
118	14-13-41	YOHO, RICHARD C. & CARLA V.
119	14-12-35.3	YOHO, RICHARD C. & CARLA V.
120	14-12-35.1	YOHO, RICHARD C. & CARLA V.
121	4-4-58.16	YOUNG, CHARLENE S.
122	4-4-60.1	YOUNG, CHARLENE S.
123	4-4-60.2	YOUNG, CHARLENE S.
124	4-4-63.1	YOUNG, ROBERT LEE
125	4-4-68	YOUNG, WAYNE E.
126	4-4-65	YOUNG, WAYNE E.
127	4-4-64	YOUNG, WAYNE E.
128	4-4-66	YOUNG, WAYNE E.
129	4-4-67	YOUNG, WAYNE E.

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SURFACE OWNER:	**OKEY L. RINE, JR.**	COUNTY:	**MARSHALL**
OIL/GAS OWNER:	**OKEY L. RINE, JR.**	DISTRICT:	**WASHINGTON**
WELL OPERATOR:	**CHEVRON APPALACHIA, LLC**	SURVEYOR:	**BLUE MOUNTAIN INC.**
ADDRESS:	**800 MOUNTAIN VIEW DRIVE** **SMITHFIELD, PA 15478**	ADDRESS:	**10125 MASON DIXON HIGHWAY** **BURTON, WV 26562**
PHONE:	**724-564-3700**	PHONE:	**304-662-6486**

SI-01880

Date: 4/24/2015

WATER SUPPLY EXHIBIT
WOODS

Blue Mountain Inc.

LETTER	NAME	SUPPLY	LAT	LON	PHONE
A	BOOTH, ESTHER M. & STEPHEN R.	WELL	39.88546	-80.697535	304-843-1340 or 304-312-5577
B	BOOTH, ESTHER M. & STEPHEN R.	WELL	39.885889	-80.696863	304-843-1340 or 304-312-5577
C	CARMICHAEL, MATTHEW A.	WELL	39.882587	-80.713755	
D	CLARK, BRADLEY C. & MARY ANN	UNUSED CISTERN	39.889853	-80.716782	304-238-4380
E	CLARK, BRADLEY C. & MARY ANN	UNUSED WELL	39.890055	-80.715654	304-238-4380
F	CLARK, PAUL ROBERT	WELL	39.894795	-80.704382	304-845-6341
G	DUFFY, JOHN E.	WELL	39.887141	-80.714778	304-845-7807
H	DULANEY, TIMOTHY S. & SHIRLEY M.	WELL	39.82263	-80.706383	304-845-3365
I	DULANEY, TIMOTHY S. & SHIRLEY M.	SPRING	39.882669	-80.704205	304-845-3365
J	EDDY, RICKEY L. & HELEN L.	SPRING	39.889187	-80.71701	304-843-1453
K	EDDY, RICKEY L. & HELEN L.	CISTERN	39.888768	-80.715679	304-843-1453
L	GEMENSKY, MICHAEL S.	WELL	39.890828	-80.700965	304-845-8361
M	HEATH, SHARON & WILKERSON, FREDERICK W.	WELL	39.893601	-80.702335	304-845-7235 or 304-845-3552
N	HEATH, SHARON & WILKERSON, FREDERICK W.	WELL	39.894173	-80.703506	304-845-7235 or 304-845-3552

	2H	4H	6H	8H	10H	12H	14H	16H
A	2882	2891	2900	2909	2864	2873	2882	2891
B	2991	2999	3006	3014	2973	2980	2988	2996
C	3031	3046	3061	3076	3044	3059	3074	3089
D	2831	2828	2826	2824	2851	2848	2846	2844
E	2528	2524	2521	2518	2547	2544	2541	2538
F	2239	2220	2201	2182	2233	2213	2194	2175
G	2341	2347	2352	2358	2360	2366	2371	2377
H	2415	2417	2419	2421	2415	2417	2419	2421
I	2391	2410	2429	2448	2385	2404	2424	2443
J	2876	2876	2875	2875	2896	2896	2895	2895
K	2542	2546	2550	2553	2562	2566	2569	2573
L	1768	1761	1753	1746	1750	1742	1735	1727
M	2107	2091	2075	2059	2095	2079	2063	2047
N	2117	2099	2082	2064	2109	2091	2073	2055

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Environmental Protection

51-01880

WATER SUPPLY EXHIBIT
WOODS

Date: 4/24/2015

Blue Mountain Inc.

LETTER	NAME	SUPPLY	LAT	LON	PHONE
O	HEATH, SHARON & WILKERSON, FREDERICK W.	WELL	39.893229	-80.701952	304-845-7235 or 304-845-3552
P	JASENEC, JEREMY J.	WELL	39.8912087	-80.700205	304-845-3977
Q	KETTLER, TODD & DAWN	SPRING	39.888871	-80.692732	304-650-8974
R	KETTLER, TODD & DAWN	SPRING	39.89032	-80.693675	304-650-8974
S	KETTLER, TODD & DAWN	SPRING	39.889591	-80.688694	304-650-8974
T	LILLEY, LARRY D.	WELL	39.890504	-80.701014	304-845-8604
U	MIDDLE GRAVE CREEK CHURCH OF GOD	STREAM	39.892552	-80.702393	304-845-9876 or 304-845-1984
V	MIDDLE GRAVE CREEK CHURCH OF GOD ~~WILKERSON, FRED S.~~	SPRING	39.892704	-80.701601	304-845-9876 or 304-845-1984
W	MILLER, GLENN R.	SPRING	39.883955	-80.714592	304-845-2337
X	OTT, RODNEY, L.	WELL	39.893286	-80.701662	
Y	OTT, RODNEY, L.	WELL	39.883705	-80.701351	
Z	SCHWING, GREGORY L.	POND	39.886625	-80.716198	304-845-5796
A1	SCHWING, GREGORY L.	STREAM	39.886607	-80.716699	304-845-5796
B1	SCHWING, GREGORY L.	POND	39.886625	-80.716198	304-845-5796

	2H	4H	6H	8H	10H	12H	14H	16H
O	2068	2053	2038	2023	2055	2040	2025	2010
P	2019	2011	2003	1996	2001	1993	1985	1977
Q	3938	3938	3938	3939	3918	3918	3918	3919
R	3708	3705	3703	3700	3688	3685	3683	3680
S	5104	5104	5103	5102	5084	5084	5083	5082
T	1712	1706	1700	1694	1694	1687	1681	1675
U	1802	1787	1773	1758	1788	1773	1759	1744
V	1997	1984	1970	1957	1983	1969	1955	1942
W	2847	2860	2873	2886	2863	2876	2888	2901
X	2137	2122	2108	2093	2124	2109	2094	2080
Y	2435	2451	2467	2483	2423	2439	2455	2471
Z	2777	2783	2789	2795	2796	2802	2808	2814
A1	2913	2919	2925	2931	2932	2938	2944	2950
B1	2777	2783	2789	2795	2796	2802	2808	2814

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WV Department of
Environmental Protection

51-01880

WATER SUPPLY EXHIBIT

Date: 4/24/2015

WOODS

Blue Mountain Inc.

LETTER	NAME	SUPPLY	LAT	LON	PHONE
C1	SCHWING, GREGORY L.	STREAM	39.886607	-80.716699	304-845-5796
D1	TAYLOR, JAMES W. & KELLY R.	SPRING	39.89632	-80.711385	304-845-1646
E1	TAYLOR, JAMES W. & KELLY R.	SPRING	39.894367	-80.711524	304-845-1646
F1	TAYLOR, JAMES W. & KELLY R.	SPRING	39.895599	-80.71086	304-845-1646
G1	UTTER, VINCENT C. & FAYNELL	WELL	39.891004	-80.71687	304-845-4327
H1	UTTER, VINCENT C. & FAYNELL	POND	39.891274	-80.717906	304-845-4327
I1	UTTER, VINCENT C. & FAYNELL	SPRING	39.891171	-80.717671	304-845-4327
J1	WILLIS, NILA L.	WELL	39.894653	-80.703082	304-845-0348
K1	WOODS, RICHARD WILEY	SPRING	39.888734	-80.713839	304-845-5769 home 304-281-6586 cell
L1	WOODS, RICHARD WILEY	SPRING	39.889331	-80.71379	304-845-5769 home 304-281-6586 cell
M1	WOODS, RICHARD WILEY	POND	39.889592	-80.714159	304-845-5769 home 304-281-6586 cell
N1	WOODS, RICHARD WILEY	SPRING	39.889412	-80.708333	304-845-5769 home 304-281-6586 cell
O1	WOODS, RICHARD WILEY	SPRING	39.888129	-80.71072	304-845-5769 home 304-281-6586 cell
p1	YOUNG, CHARLENE S.	WELL	39.882416	-80.707514	304-845-3353

	2H	4H	6H	8H	10H	12H	14H	16H
C1	2913	2919	2925	2931	2932	2938	2944	2950
D1	2988	2970	2952	2934	2996	2978	2960	2942
E1	2389	2372	2355	2339	2400	2383	2367	2350
F1	2687	2669	2651	2633	2696	2678	2660	2642
G1	2934	2929	2924	2919	2954	2949	2943	2939
H1	3241	3235	3230	3225	3260	3255	3249	3244
I1	3167	3162	3157	3152	3187	3181	3176	3171
J1	2327	2309	2291	2273	2318	2300	2282	2264
K1	2014	2014	2014	2015	1994	1994	1994	1995
L1	1977	1975	1974	1973	1997	1995	1994	1993
M1	2089	2086	2084	2082	2109	2106	2104	2102
N1	474	467	460	455	492	485	479	474
O1	1148	1153	1158	1164	1167	1172	1177	1183
P1	2382	2402	2422	2442	2384	2404	2424	2444

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WW-6A3
(1/12)

51-01880

Operator Well No. Woods Unit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | Certified Mail Receipt Number: 7012 2210 0002 4671 6232

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 4-3-51.2

☒ SURFACE OWNER(s)
Name: Donna M. Logsdon
Address: RR 3 Box 280
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: WV
County: Marshall
District: Clay
Quadrangle: USGS 7.5' Moundsville, WV

Approx. Latitude & Longitude: N39° 54' 04.98" W80° 43' 36.27"
Public Road Access: Middle Grave Creek Rd. (CR 34)
Watershed: Grave Creek / Middle Grave Creek
Generally used farm name:

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:
Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3809
Mr. Stefan Keplinger
Email:

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile:

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.

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NOV 7 2014
WV Department of
Environmental Protection

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

4705101849

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | **Certified Mail Receipt Number: 7012 2210 0002 4671 6249**

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 4-3-51.3

☒ SURFACE OWNER(s)
Name: Rosella V. Long
Address: RD 3 Box 279
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	N39° 53' 59.32" W80° 42' 45.40"
County:	Marshall	Public Road Access:	Middle Grave Creek Rd. (CR 34)
District:	Clay	Watershed:	Grave Creek / Middle Grave Creek
Quadrangle:	USGS 7.5' Moundsville, WV	Generally used farm name:	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
Telephone:	724-564-3809		Smithfield, PA 15478
	Mr. Stefan Keplinger		
Email:		Facsimile:	

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.

Received
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JAN 07 2015
WV Department of Environmental Protection

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Office of Oil and Gas
JAN 07 2015

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | Certified Mail Receipt Number: 7012 2210 0002 4671 5419

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 4-3-51

☒ SURFACE OWNER(s)
Name: Rosella V. Long
Address: RD 3 Box 279
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: WV
County: Marshall
District: Clay
Quadrangle: USGS 7.5' Moundsville, WV
Approx. Latitude & Longitude: N39° 54' 01.76" W80° 43' 32.79"
Public Road Access: Middle Grave Creek Rd. (CR 34)
Watershed: Grave Creek / Middle Grave Creek
Generally used farm name:

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:
Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3809
Mr. Stefan Keplinger
Email:
Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile:

RECEIVED
Office of Oil and Gas
JAN 07 2016
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.

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

4705101849

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | Certified Mail Receipt Number: 7012 2210 0002 4671 5617

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 14-12-48

☒ SURFACE OWNER(s)
Name: Mark Eldred McCartney
Address: 2316 Campbell Hill Rd.
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	N39° 53' 43.21" W80° 42' 25.75"
County:	Marshall	Public Road Access:	Middle Grave Creek Rd. (CR 34)
District:	Washington	Watershed:	Grave Creek / Middle Grave Creek
Quadrangle:	USGS 7.5' Moundsville, WV	Generally used farm name:	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
Telephone:	724-564-3809		Smithfield, PA 15478
	Mr. Stefan Keplinger		
Email:		Facsimile:	

Received
Office of Oil & Gas
JUN 03 2015

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JUN 07 2016
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.

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | Certified Mail Receipt Number: 7012 2210 0002 4671 5600

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 14-12-43

☒ SURFACE OWNER(s)
Name: Paul Robert Clark
Address: RD 3 Box 300
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	N39° 53' 40.29" W80° 42' 19.46"
County:	Marshall	Public Road Access:	Middle Grave Creek Rd. (CR 34)
District:	Washington	Watershed:	Grave Creek / Middle Grave Creek
Quadrangle:	USGS 7.5' Moundsville, WV	Generally used farm name:	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
Telephone:	724-564-3809		Smithfield, PA 15478
	Mr. Stefan Keplinger		
Email:		Facsimile:	

RECEIVED
Office of Oil and Gas
JAN 07 2016
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.

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | Certified Mail Receipt Number: 7012 2210 0002 4671 5600

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 14-12-44.1

☒ SURFACE OWNER(s)
Name: Paul Robert Clark
Address: RD 3 Box 300
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	N39° 53' 41.75" W80° 42' 16.13"
County:	Marshall	Public Road Access:	Middle Grave Creek Rd. (CR 34)
District:	Washington	Watershed:	Grave Creek / Middle Grave Creek
Quadrangle:	USGS 7.5' Moundsville, WV	Generally used farm name:	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
Telephone:	724-564-3809		Smithfield, PA 15478
	Mr. Stefan Keplinger		
Email:		Facsimile:	

RECEIVED
Office of Oil and Gas
JAN 07 2016
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.

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | Certified Mail Receipt Number: 7012 2210 0002 4671 5594

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 14-12-42

☒ SURFACE OWNER(s)
Name: John H. Anderson
Address: 230 East Fork Drive
Cleveland, TX 77328
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: WV
County: Marshall
District: Washington
Quadrangle: USGS 7.5' Moundsville, WV
Approx. Latitude & Longitude: N39° 53' 38.50" W80° 42' 17.06"
Public Road Access: Middle Grave Creek Rd. (CR 34)
Watershed: Grave Creek / Middle Grave Creek
Generally used farm name:

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:
Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3809
Email: Mr. Stefan Keplinger
Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile:

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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.

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | Certified Mail Receipt Number: 7012 2210 0002 4671 5761

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 14-12-63.3

☒ SURFACE OWNER(s)
Name: Virginia R. Goldbaugh
Address: RD 3 Box 283
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	N39° 53' 53.89" W80° 42' 30.05"
County:	Marshall	Public Road Access:	Middle Grave Creek Rd. (CR 34)
District:	Washington	Watershed:	Grave Creek / Middle Grave Creek
Quadrangle:	USGS 7.5' Moundsville, WV	Generally used farm name:	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
Telephone:	724-564-3809		Smithfield, PA 15478
Email:	Mr. Stefan Keplinger	Facsimile:	

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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.

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | **Certified Mail Receipt Number: 7012 2210 0002 4671 5747**

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 14-12-63

☒ SURFACE OWNER(s)
Name: Mark G. & Teresa D. Stout
Address: RD 3 Box 283A
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	N39° 53' 48.12" W80° 42' 30.76"
County:	Marshall	Public Road Access:	Middle Grave Creek Rd. (CR 34)
District:	Washington	Watershed:	Grave Creek / Middle Grave Creek
Quadrangle:	USGS 7.5' Moundsville, WV	Generally used farm name:	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
Telephone:	724-564-3809		Smithfield, PA 15478
Email:	Mr. Stefan Keplinger	Facsimile:	

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JAN 07 2016
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.

51-01880

WW-6A3
(1/12)

Operator Well No. Woods Unit

4705101852

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: October 24, 2014 **Date of Planned Entry:** Nov 3 through Dec 2, 2014

Delivery method pursuant to West Virginia Code § 22-6A-10a | Certified Mail Receipt Number: 7012 2210 0002 4671 5556

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to: Tax Parcel Number: 4-4-61

☒ SURFACE OWNER(s)
Name: Richard & Nancy Woods
Address: RD 3 Box 56
Moundsville, WV 26041
Name:
Address:
Name:
Address:

☐ COAL OWNER OR LESSEE
Name:
Address:

☐ MINERAL OWNER(s)
Name:
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	WV	Approx. Latitude & Longitude:	N39° 53' 22.44" W80° 42' 35.76"
County:	Marshall	Public Road Access:	Fork Ridge Rd. (CR 17)
District:	Clay	Watershed:	Grave Creek / Middle Grave Creek
Quadrangle:	USGS 7.5' Moundsville, WV	Generally used farm name:	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
Telephone:	724-564-3809		Smithfield, PA 15478
	Mr. Stefan Keplinger		
Email:		Facsimile:	

Received
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Office of Oil & Gas
Office of Oil and Gas
JUN 08 2015
JAN 07 2016
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.

WW-6A4
(1/12)

51-01880

Operator Well No. 16H

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: 09/29/2015 **Date Permit Application Filed:** 12-28-15

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: Richard Wiley Woods
Address: 2588 Fork Ridge Road
Moundsville, WV 26041

Name: Nancy Jane Woods
Address: 2588 Fork Ridge Road
Moundsville, WV 26041

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: West Virginia
County: Marshall
District: Clay
Quadrangle: Moundsville, WV 7.5'
Watershed: Middle Grave Creek - Grave Creek

UTM NAD 83 Easting: 525076.91
Northing: 4415489.13
Public Road Access: CR 17 Fork Ridge Road
Generally used farm name: Woods

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 800 Mountain View Drive
Smithfield, PA 15478
Telephone: 724-564-3700
Email:
Facsimile: 724-564-3894

Authorized Representative:
Address:
Telephone:
Email:
Facsimile:

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.

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Environmental Protection

WW-6A5
(1/12)

Operator Well No. 51-01880 16H

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: 09/29/2015 **Date Permit Application Filed:** 12-28-15

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

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND 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: Richard Wiley Woods & Nancy Jane Woods
Address: 2588 Fork Ridge Road ✓
Moundsville, WV 26041

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: Werst Virginia
County: Marshall
District: Clay
Quadrangle: Moundsville, WV 7.5'
Watershed: Middle Grave Creek - Grave Creek

UTM NAD 83 Easting: 525070.96
Northing: 4415476.88
Public Road Access: CR 17 Fork Ridge Road
Generally used farm name: Woods

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email:

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile:

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.

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Environmental Protection

WW-6AW
(1-12)

API NO. 47- 51 - 01880
OPERATOR WELL NO: 18H
Well Pad Name: Woods

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, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	525076.91
County:	Marshall		Northing:	4415489.13
District:	Clay	Public Road Access:		CR 17 Fork Ridge Road
Quadrangle:	Moundsville, WV 7.5'	Generally used farm name:		Woods
Watershed:	Middle Grave Creek - Grave Creek			

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	FOR EXECUTION BY A NATURAL PERSON
☐ SURFACE OWNER	Signature: Richard W. Woods
☐ SURFACE OWNER (Road and/or Other Disturbance)	Print Name: RICHARD W. WOODS
☐ SURFACE OWNER (Impoundments/Pits)	Date: 10-05-15
☐ COAL OWNER OR LESSEE	**FOR EXECUTION BY A CORPORATION, ETC.**
☐ COAL OPERATOR	Company: _____
☐ WATER PURVEYOR	By: _____
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD	Its: _____
	Signature: _____
	Date: _____

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WV Department of
Environmental Protection

S1-01880

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways
1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

September 21, 2015

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

Subject: DOH Permit for the Woods A Well Pad, Marshall County

Woods A Unit 2H Woods A Unit 14H Woods A Unit 16H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2015-0161 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 17 SLS.

The 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 January 3, 2012.

Very Truly Yours,

Gary K. Clayton

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office Oil &Gas Coordinator

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Office of Oil and Gas
JAN 07 2016
WV Department of
Environmental Protection

Cc: Kristen R. Brooks
Chevron Appalachia, LLC
CH, OM, D-6
File

NAD 83

51-01880

Hydraulic Fracturing Fluid Product Component Information - MSDS Base

Fracture Date:	
State:	
Operator Name:	
Well Name and Number:	Woods
Total Water Volume (gal)*:	

Hydraulic Fracturing Fluid Composition - MSDS Base

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Clean Volume	Chevron AMBU	Carrier/Base Fluid	Water (Including Mix Water Supplied by Client)*	NA		89.16250455%	
Proppant	Schlumberger	Proppant					
			Crystalline Silica	14808-60-7	100	10.68016923%	
M300	BASF Corporation	Biocide					
			Water	7732-18-5	75	0.00000000%	
			Glutaral	111-30-8	25	0.00000000%	
7.5% Acid	Schlumberger	Perf Cleanup					
			Hydrocloric Acid	7647-01-0	8	0.00923732%	
15% Acid	Schlumberger	Perf Cleanup					
			Hydrocloric Acid	7647-01 -0	15	0.00000000%	
A264	Schlumberger	Corrosion Inhibitor					
			Methanol	67-56-1	40	0.00004213%	
			Prop-2-yn-1-ol	107-19-7	10	0.00001053%	
			Aliphatic acids	Proprietary	30	0.00003160%	
			Aliphatic alcohols, ethoxylayed #1	Proprietary	30	0.00003160%	
L058	Schlumberger	Iron Stabilizer					
			Sodum erythorbate	6381-77-7	100	0.00056630%	
J134	Schlumberger	Gel Breaker					
			Hemicellulase enzyme	9012-54-8	100	0.00113112%	
J580	Schlumberger	Gelling Agent					
			Carbohydrate polymer	Proprietary	100	0.02255679%	
J609W	Schlumberger	Friction Reducer					
			Ammonium Sulfate	7783-20-2	30	0.00054736%	
			Urea	57-13-6	5	0.00054736%	
U042	Schlumberger	Iron Chelating Agent					
			Tetrasodium ethylenediam inetetraacetate	64-02-8	60	0.00077882%	
			Sodium hydroxide	1310-73-2	5	0.00006490%	
			Trisodium nitrilotriacetate (im purity)	5064-31 -3	10	0.00012980%	
B317	Schlumberger	Scale Inhibitor					
			Trisodium ortho phosphate	7601 -54-9	5	0.00003882%	
			Ethane-1 ,2-diol	1 07-21 -1	5	0.00003882%	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Report ID: RPT-24821 (Generated on 2/27/2014 9:48 AM)

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

RECEIVED
Office of Oil and Gas
JAN 07 2016
WV Department of
Environmental Protection

WOODS WI

SITE DESIGN, EROSION

CONTROL, AND SITE RE

FORK RIDGE RO

MARSHALL CO

PREPARED F

CHEVRON APPA

800 MOUNTAIN V

SMITHFIELD, F

NOT ALL UTILITIES ARE SHOWN

WEST VIRGINIA 811

THE LOCATION OF ALL UTILITIES (ABOVE OR BELOW GROUND) SHOWN ON THESE DRAWINGS ARE APPROXIMATE & WERE OBTAINED FROM USGS TOPO MAPS AND/OR UTILITY OWNERS. AECOM DOES NOT GUARANTEE THAT LOCATION SHOWN ON THE DRAWINGS ARE CORRECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE LOCATIONS OF EXISTING UTILITIES (ABOVE OR BELOW GROUND) & TO NOTIFY THE RESPECTIVE UTILITY OWNERS BEFORE BEGINNING CONSTRUCTION

CALL BEFORE YOU DIG!
WEST VIRGINIA LAW REQUIRES
AT LEAST 2 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL
WEST VIRGINIA ONE CALL SYSTEM INC
DIAL 811 IN WEST VIRGINIA OR
1-800-245-4848

APPROVED
WVDEP OOG
WJS 8/10/2015

LOCATION COORDINATE
ACCESS ROAD ENTRANCE:
LATITUDE: N039.889051 LONGITUDE: W080.715440

TANK PAD CENTER:
LATITUDE: N039.889567 LONGITUDE: W080.711640

WELL PIN 8H:
LATITUDE: N039.889095 LONGITUDE: W080.706766

WELL PIN 10H:
LATITUDE: N039.888930 LONGITUDE: W080.706692

WELL PAD CENTER:
LATITUDE: N039.889087 LONGITUDE: W080.706926

*BASED ON NAD 83 PROJECTIONS

GENERAL DESCRIPTION
THE WELL PAD, TANK PAD AND ACCESS ROAD(S) ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTE
THE PROPOSED SITE IS NOT LOCATED IN THE 1% ANNUAL CHANCE FLOOD HAZARD ZONE PER FEMA FLOOD MAP 54051C0090E.

MISS UTILITY STATEMENT
MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR AT LEAST 2 DAYS PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT
AN ENCROACHMENT PERMIT (FORM MM-109) WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

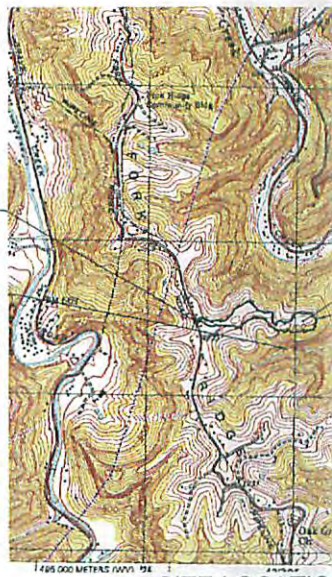
WATERSHED NAME: UNT TO MIDDLE GRAVE CREEK
RECIEVING STREAM (USGS BLUE LINE):MIDDLE GRAVE CREEK
NO ANTICIPATED WETLAND IMPACTS.

ENGINEER
AECOM
681 ANDERSON DRIVE, SUITE 400
PITTSBURGH, PA 15220-2749
OFFICE: (412) 503-4606 FAX: (412) 503-4701

N

ACCESS ROAD ENTRANCE

UNT to MIDDLE GRAVE CREEK (TIER 1)



SITE LOCATIO
USGS 7.5' TOPOGRAPHIC
MOUNDSVILLE,

2,000' 1,000' 0'

EXISTING:
MAJOR CONTOUR (10' INTERVAL)
MINOR CONTOUR (2' INTERVAL)
PROPERTY LINE
RIGHT-OF-WAY
EASEMENT
EDGE OF ROADWAY
FENCE LINE
ELECTRIC UTILITY
TELEPHONE LINE
GAS LINE
CULVERT
TREE / BRUSH LINE
STREAM
DELINEATED WETLAND AREA
OPEN-ENDED WETLAND
TEST PIT
MoB2 SOIL CLASSIFICATION
SOIL BOUNDARY
UTILITY POLE
BUILDING (POLE TO BE REMOVED)

RECEIVED
Office of Oil and Gas
JAN 07 2016
WV Department of
Environmental Protection

Path & Filename:Y:\Projects\147\Chevron\39939591 - Woods\CADD\Plan\Woods Well Site.dwg
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Save Date=7/13/2015 5:55 PM

81-01880

ELL SITE
& SEDIMENTATION
ESTORATION PLANS

AD (CR 17)
UNTY, WV

OR:

LACHIA, LLC

EW DRIVE
A 15478

MAP
UADRANGLE MAP
V 1997
2,000'

PROPOSED:

- MAJOR CONTOUR (10' INTERVAL)
- MINOR CONTOUR (2' INTERVAL)
- RESOURCE STUDY AREA
- LIMIT OF DISTURBANCE
- CLEARING LIMIT
- ACCESS ROAD
- WELL PAD / TANK PAD
- ROCK CHECK DAM
- RIPRAP APRON
- CULVERT
- SOIL CEMENT W/ GRAVEL SURFACE
- COMPOST FILTER SOCK
- SF — SILT FENCE
- SSF — SUPER SILT FENCE
- STOCKPILE AREA
- PERMANENT COLLECTION CHANNEL
- TEMPORARY COLLECTION CHANNEL
- TEMPORARY DIVERSION CHANNEL
- ROCK CONSTRUCTION ENTRANCE
- GRAVEL SURFACE

SHEET NO.	SHEET TITLE	INCLUDED
CS 000	COVER SHEET	☒
ES 050	EXISTING TOPOGRAPHIC PLAN	☒
ES 060	EXISTING TOPOGRAPHIC PLAN	☒
ES 070	EXISTING TOPOGRAPHIC PLAN	☒
ES 100	OVERALL EROSION & SEDIMENT CONTROL PLAN	☒
ES 101	EROSION AND SEDIMENT CONTROL PLAN	☒
ES 102	EROSION AND SEDIMENT CONTROL PLAN	☒
ES 103	EROSION AND SEDIMENT CONTROL PLAN	☒
ES 104	EROSION AND SEDIMENT CONTROL DETAILS	☒
ES 105	EROSION AND SEDIMENT CONTROL DETAILS	☒
ES 106	EROSION AND SEDIMENT CONTROL DETAILS	☒
ES 107	EROSION AND SEDIMENT CONTROL DETAILS	☒
ES 108	EROSION AND SEDIMENT CONTROL DETAILS	☒
ES 109	EROSION AND SEDIMENT CONTROL DETAILS	☒
ES 110	EROSION AND SEDIMENT CONTROL DETAILS	☒
ES 111	CROSS SECTION PLAN A & B	☒
ES 112	CROSS SECTION PLAN C & D	☒
ES 113	ACCESS ROAD PLAN & PROFILE	☒
ES 114	ACCESS ROAD PLAN & PROFILE	☒
ES 115	ACCESS ROAD CROSS SECTIONS	☒
ES 116	SOIL STOCKPILE CROSS SECTIONS	☒
GE 500	GEOTECHNICAL SUBSURFACE SUMMARY	☒
GE 501	CROSS SECTIONS	☒
GE 502	CROSS SECTIONS	☒
GE 503	CROSS SECTIONS	☒
GE 504	INTERNAL DRAIN & ROCK TOE PLAN & DETAILS - SHEET 1 OF 2	☒
GE 505	INTERNAL DRAIN & ROCK TOE PLAN & DETAILS - SHEET 2 OF 2	☒
GE 506	RSS PLAN	☒
GE 507	RSS PROFILE	☒
GE 508	RSS PROFILE	☒
GE 509	RSS TYPICAL SECTIONS	☒
GE 510	RSS DETAILS	☒
GE 511	DETAILS	☒
GE 512	RSS STAKEOUT PLAN	☒
PC 600	SITE RESTORATION PLAN	☒
PC 601	SITE RESTORATION PLAN	☒
PC 602	SITE RESTORATION PLAN	☒
PC 603	SITE RESTORATION PLAN DETAILS	☒
PC 604	SITE RESTORATION PLAN DETAILS	☒

DESIGN CERTIFICATION

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-80.

TOTAL DISTURBED AREA			
PROPERTY OWNER	PROJECT AREA (AC)	DISTURBED AREA (AC)	CLEARING AREA (AC)
WOODS, RICHARD WILEY ET UX TAX ID 4-4-61 DBV 0538/0585	13.55	13.55	1.60
WOODS, RICHARD WILEY ET UX TAX ID 4-4-61.8 DBV 0538/0585	0.007	0.007	-
WOODS, HAZEL J EST TAX ID 4-4-53 DBV 0604/0482	0.705	0.705	-
TOTAL	14.26	14.26	1.60

AECOM
FOSTER PLAZA 6
661 ANDERSEN DRIVE
SUITE 400
PITTSBURGH, PA 15220

MARCUS J. COPE REGISTERED No. 19360 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

REVISION RECORD

Date	No	
	01	
	02	
	03	
	04	
	05	
	06	
	07	
	08	

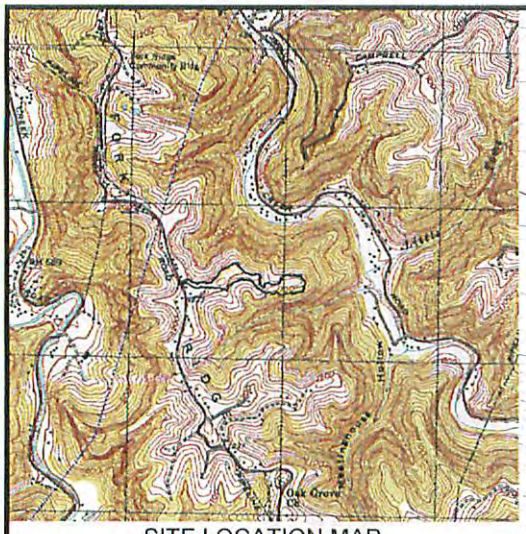
WOODS WELL SITE
FORK RIDGE ROAD (CR 17)
CLAY DISTRICT, MARSHALL COUNTY, WV

PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

COVER SHEET

Project Number: 39939591
Drawing Scale: AS SHOWN
Date Issued: 07-09-2015
Drawn By: CDB
Checked By: JWR
Project Manager: MJC

CS 000



SITE LOCATION MAP
USGS QUAD: MOUNDSVILLE, WV
1" = 2000'

NOTES:

1. CONTRACTOR TO CALL WV ONE CALL SYSTEM (811) A MINIMUM OF 3 BUSINESS DAYS, MAXIMUM 10 BUSINESS DAYS, PRIOR TO CONSTRUCTION FOR UTILITY CONFIRMATION. UTILITIES SHOWN REFLECT BEST AVAILABLE INFORMATION AT THE TIME OF ISSUANCE.
2. ALL ELEVATIONS REPRESENT FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
3. CONTRACTOR TO ESTABLISH SITE SPECIFIC BEST MANAGEMENT PRACTICES (BMPS) FOR THE CONTROL OF EROSION AND SEDIMENTATION PRIOR TO ANY EARTH DISTURBANCE. SITE CONSTRUCTION TO FOLLOW REQUIREMENTS OF WV H6A PERMIT OBTAINED FOR THE SITE.
4. CONTRACTOR TO STRIP TOPSOIL FROM DEVELOPMENT FOOTPRINT ONLY AND STOCKPILE ONSITE IN DESIGNATED AREAS.
   a. FILLS WILL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM D-698).
   b. MAXIMUM LIFT THICKNESS FOR FILLS WILL BE 12".
   c. FILL WILL BE FREE OF OBJECTIONABLE MATERIAL NOT LARGER THAN 6".
   d. ROCK FILL LIFTS WILL BE NO THICKER THAN 36".
   e. REFER TO GEOTECH PLANS.
5. FILL MATERIAL WILL BE PREQUALIFIED AS SATISFACTORY SOIL, PLACED IN ENGINEERED LIFTS, AND COMPACTED AS PER CHEVRON CIVIL EARTHWORK SPECIFICATIONS.
6. DISTURBED AREAS WILL BE IMMEDIATELY STABILIZED WITH SEED AND MULCH OR OTHER MATERIALS PER THE WV H6A PERMIT EROSION AND SEDIMENTATION MODEL PLAN.
7. ALL CHANNELS WILL BE BUILT TO SPECIFICATION UNLESS NOTED OTHERWISE.
8. ALL EARTHWORK QUANTITIES ARE ENGINEER ESTIMATES. ACTUAL EARTHWORK QUANTITIES MAY VARY BASED UPON EXISTING FIELD CONDITIONS.

PROJECT AREA: 14.3 ACRES

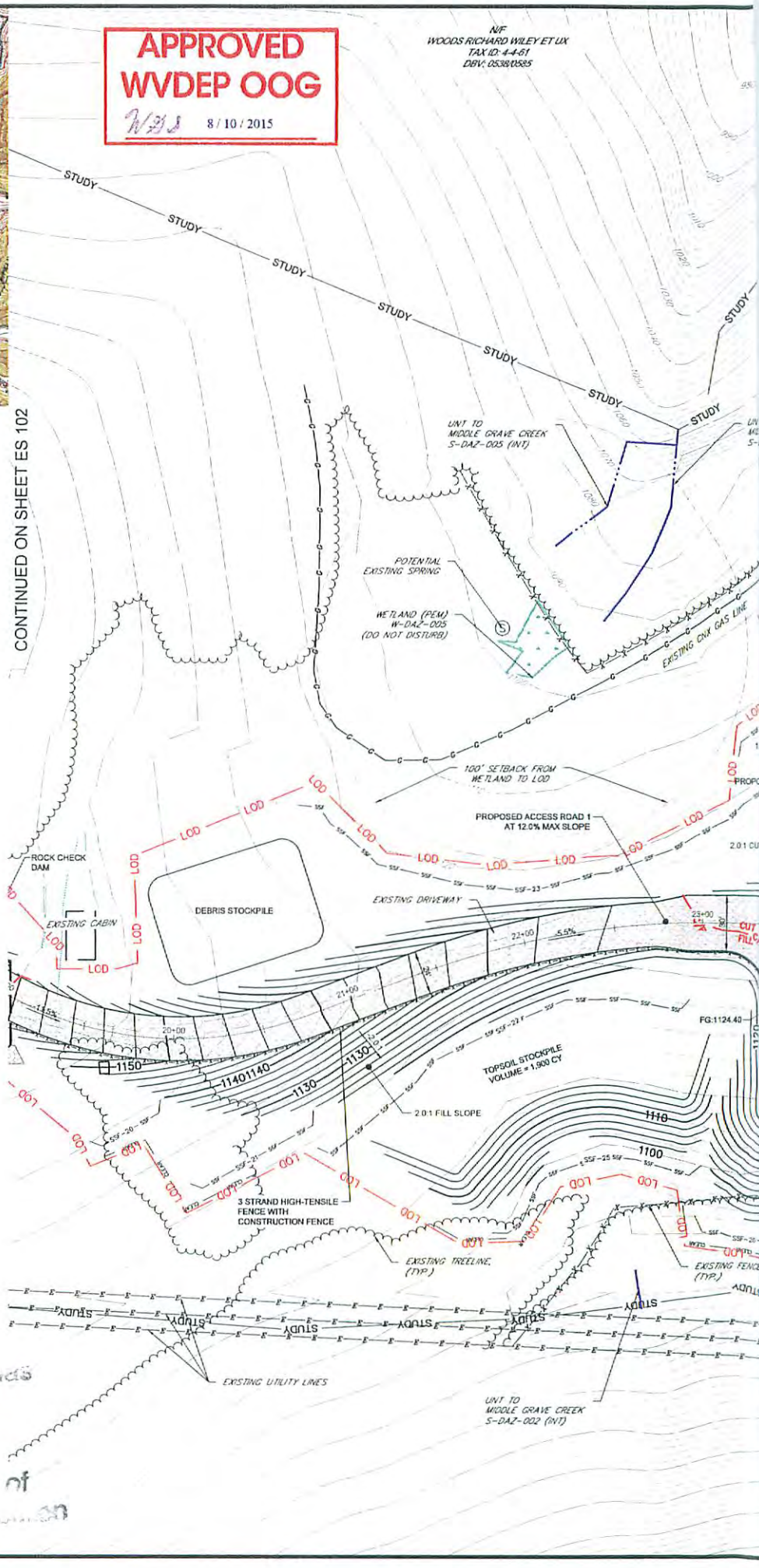
DISTURBED AREA: 14.3 ACRES

CLEARING AREA: 1.6 ACRES

EROSION & SEDIMENT CONTROL LEGEND

- 1400 — MAJOR CONTOUR (10' INTERVAL)
- 1458 — MINOR CONTOUR (2' INTERVAL)
- LOD — LIMIT OF DISTURBANCE
- CLEAR — CLEARING LIMIT
- C/F — CUT/FILL LINE
- ACCESS ROAD
- WELL PAD / TANK PAD
- RIPRAP APRON
- CULVERT
- COMPOST FILTER SOCK
- SF — SILT FENCE
- SSF — SUPER SILT FENCE
- STOCKPILE AREA
- PERMANENT COLLECTION CHANNEL
- TEMPORARY COLLECTION CHANNEL
- TEMPORARY DIMENSION CHANNEL
- ROCK CONSTRUCTION ENTRANCE
- GRAVEL SURFACE
- PAVED SURFACE
- PROPOSED FENCE

CONTINUED ON SHEET ES 102



Office of Oil and Gas
JAN 0 7 2016
Department of

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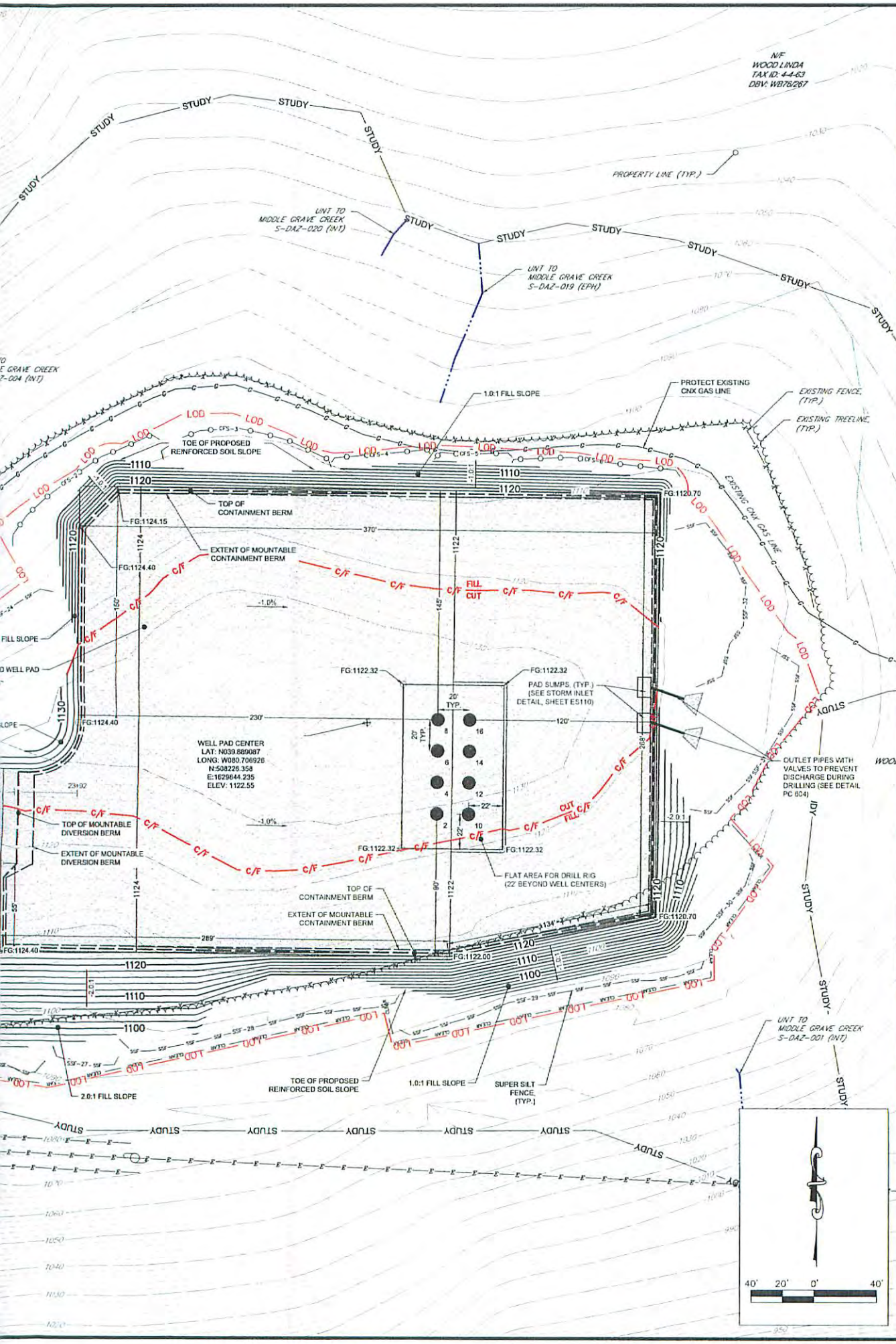
51-01880



AECOM

FOSTER PLAZA 6
681 ANDERSEN DRIVE
SUITE 400
PITTSBURGH, PA 15220

MARCUS J. COPE
REGISTERED
No. 18360
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

REVISION RECORD

Date	No
	01
	02
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WOODS WELL SITE

FORK RIDGE ROAD (CR 17)
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PREPARED FOR:
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800 MOUNTAIN VIEW DRIVE
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EROSION AND
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ES 103