



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

August 24, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101851, 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: 6H
Farm Name: WOODS, RICHARD WILEY & NA
API Well Number: 47-5101851
Permit Type: Horizontal 6A Well
Date Issued: 08/24/2015

Promoting a healthy environment.

08/28/2015

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. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

4705101851

WW-6B
(10/14)

API NO. 47- _____ - _____
OPERATOR WELL NO. 6H
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: 6H 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 Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, 6,290' GL, Thickness: 50', Pressure Gradient: 0.64 psi/ft

8) Proposed Total Vertical Depth: 6,271'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,159'

11) Proposed Horizontal Leg Length: 8,401'

12) Approximate Fresh Water Strata Depths: 405' GL

13) Method to Determine Fresh Water Depths: Local stream base/offset well info

14) Approximate Saltwater Depths: 650' and 1,755' GL

15) Approximate Coal Seam Depths: 650' (Pgh #8 Coal)

16) Approximate Depth to Possible Void (coal mine, karst, other): No void, Pillar

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

(a) If Yes, provide Mine Info: Name: Ireland Mine
Depth: 650'
Seam: Pittsburgh #8 Coal Seam
Owner: Consolidated Coal Company

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WW-6B
(10/14)

API NO. 47-_____

OPERATOR WELL NO. 6HWell 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	40	141 CTS
Fresh Water	13-3/8"	New	J-55	54.5 #	500	500	350
Coal							
Intermediate	9-5/8"	New	J-55	40 #	1950	1950	610
Production	5-1/2"	New	P-110	20#	15159	15159	2505
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface 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	Class A	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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WW-6B
(10/14)

API NO. 47- _____ - _____
OPERATOR WELL NO. 6H _____
Well Pad Name: Woods _____

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 41 stages using 9500 bbl of fluid and 400,000 lbm of sand per stage. Anticipated max pressure = 9,900 psi Anticipated max rate = 100 bpm

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.

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*Note: Attach additional sheets as needed.

CEMENT ADDITIVES – WOODS PAD

- Water/Intermediate String – contain Class A cement, up to 3% CaCl₂, and flake
- Tail & Lead of the Production cement – contain Class A cement with KCL, dispersant, defoamer, suspension agent, and friction reducer.
- Spacer – a fly ash blend

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Woods 6H

4705101851

Marshall County, WV		Ground Level Elev. (ft above SL):		1123				
4/30/2015 10:22		Rig KB (ft above GL):		32				
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE	TVD		WELLHEAD DESIGN FMC UH-2 13-5/8"	HOLE SIZE (IN)	MD KB (FT)	CASING SPECS
			GL (FT)	KB (FT)				
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	500	532		18	532	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 (bb/ft) 0.1546 Annulus (bb/ft) 0.0488
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 (bb/ft) 0.0758 Annulus (bb/ft) 0.0558
Fluid Drilled on SBM	Vertical Bow Spring 1 centralizer every other joint over coupling Curve and lateral Solid composite 1 centralizer per joint	KOP Middlesex Burkett Shale Tully Limestone Hamilton shale Upper Marcellus Lower Marcellus Landing point Basal Marcellus	4,700	4,732			4,732	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 (bb/ft) 0.0222 Annulus (bb/ft) 0.0408
		5-1/2" Casing	6,500	15,191			6,793	Set below the 50 ft Sand

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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	Hydrochloric Acid	7647-01-0	8	0.00923732%	
15% Acid	Schlumberger	Perf Cleanup	Hydrochloric 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, ethoxylated #1	Proprietary	30	0.00003160%	
L058	Schlumberger	Iron Stabilizer	Sodium 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 ethylenediaminetetraacetate	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	107-21-1	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.

4705101851

WW-9
(2/15)

API Number 47 - _____ - _____
Operator's Well No. 6H

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 _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Yes. Shale Shakers, to Drying Shakers, to the Sand Trap, to the Active Mud System . The cuttings will be mixed off on location and trucked off in half rounds

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

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
Surface/intermediate will be planned to drill on air. Production be drilled on SBM. If issues are encountered. The intermediate section may be drilled on SBM

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

Additives to be used in drilling medium? Fluid loss control, emulsifier, and shale stabilizer.

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

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

-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

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AUG 18 2015

Subscribed and sworn before me this 18th day of August, 2015

Kristen Brooks

Notary Public

My commission expires Sept 2, 2018

WV Department of Environmental Protection
COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kristan Brooks, Notary Public
Smithfield Boro, Fayette County
My Commission Expires Sept. 2, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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
Type B Mix	65
Type D Mix	20

Seed Type	lbs/acre
Type B Mix	65
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: *Jane White*

Comments: _____

Title: Oil & Gas Inspector

Date: 4/25/15

Field Reviewed? () Yes () No

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CHEVRON
APPALACHIA, LLC



West Virginia Well Site Safety Plan

Woods Pad A

PAD #47-051-0061

Well #6H

2600 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

Prepared in Conformance with:

JW 5/6/15

*West Virginia's Code §22-6A and Legislative Rule §35-8-5.7 and
West Virginia Department of Environmental Protection's, Office of Oil and Gas documents: "Well Site
Safety Plan Standards" (issued August 25, 2011), and
"Deep Well Drilling Procedures and Site Safety Plan Requirements" (issued October 22, 2012)*

Revision 4

Original: September 2012

Revised: June 2013

Revised: May 2014

Revised: January, 2015

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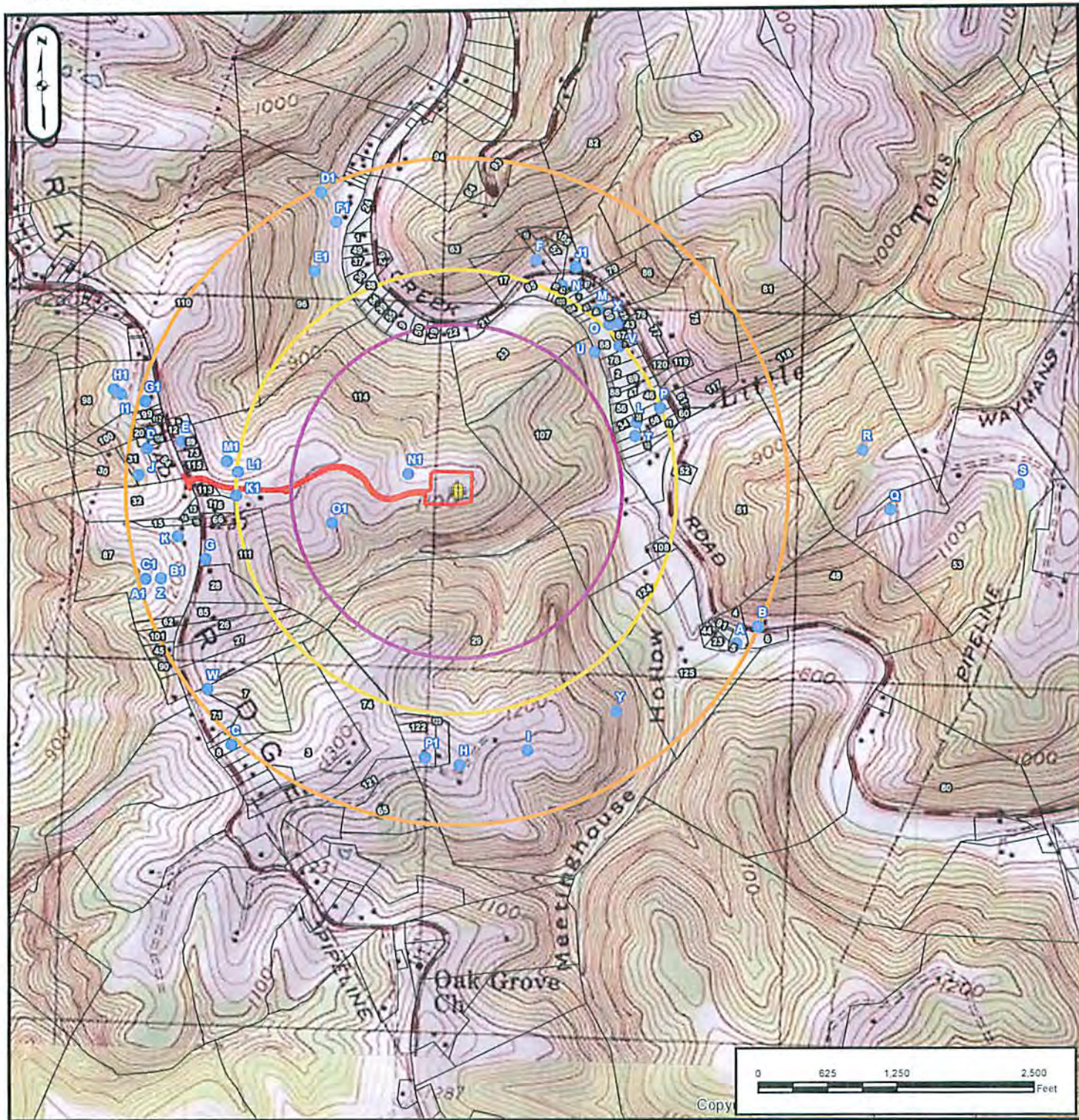
08/28/2015

WATER SUPPLY EXHIBIT WOODS

4705101851

Blue Mountain Inc.

Date: 4/30/2015



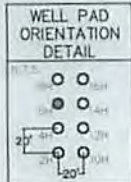
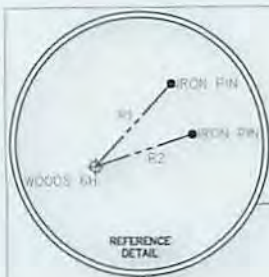
SURFACE OWNER: WOODS, RICHARD WILEY
OIL/GAS OWNER: WOODS, RICHARD WILEY
WELL OPERATOR: CHEVRON APPALACHIA, LLC
ADDRESS: 800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478
PHONE: 724-564-3700

COUNTY: MARSHALL
DISTRICT: CLAY
SURVEYOR: BLUE MOUNTAIN INC.
ADDRESS: 10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: 304-662-6486

08/28/2015

Well is located on topo map 10,064 feet South of Latitude: 39° 55' 00"

Well head located on topo map 11,248 feet West of Longitude: -80° 40' 00"



LEGEND	
	TOPO MAP POINT
	BOTTOM HOLE
	WELL HEAD
	WELL REFERENCE POINT
	1/2 MILE BUFFER
	PROPOSED HORIZONTAL WELL
	PARCEL LINES
	ROAD CENTERLINE
	STREAM CENTERLINE
	MINERAL TRACT BOUNDARY
	WELL REFERENCE LINE
	LESSORS
	SURFACE OWNERS
GAS WELLS	
	EXISTING WELL

SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83(M)	
N:4415483.01	E:525070.85
NAD 83, WV NORTH	
N:508208.400	E:1629888.967
LAT/LON DATUM-NAD83	
LAT:39.889040	LON:-80.706766
APPROX. LANDING POINT (LP)	
UTM 17-NAD83(M)	
N:4415558.27	E:524804.02
NAD 83, WV NORTH	
N:508494.99	E:1629027.74
LAT/LON DATUM-NAD83	
LAT:39.889726	LON:-80.739841
BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83(M)	
N:4417522.61	E:523156.78
NAD 83, WV NORTH	
N:515006.49	E:1623719.72
LAT/LON DATUM-NAD83	
LAT:39.907470	LON:-80.729081

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

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



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

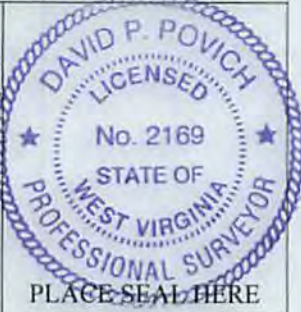
PROPOSED HORIZ. LENGTH 8391'±
AZ: 320° 57' 13"

LINE	BEARING	DISTANCE
R1	N 43° 22' 13" E	265.54'
R2	N 73° 52' 43" E	247.18'
R3	N 29° 42' 08" W	1745.13'
R4	N 05° 40' 58" W	1254.06'

FILE #: WOODS 6H
 DRAWING #: WOODS 6H
 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: [Signature] 4/30/15
 R.P.E.: _____ L.L.S.: 2169



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



DATE: April 21, 2015
 OPERATOR'S WELL #: WOODS 6H
 STATE COUNTY PERMIT
41 51 01851

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: 442.9 ±
 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: 6284'± TMD: 15,191'±
 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

08/28/2015

WOODS PROJECT LATERAL 6H PAGE 2 OF 2

TAG	DEED BOOK/PAGE	SURFACE OWNER	DISTRICT TAX MAP PARCEL NO.
1	604-526	WEST VIRGINIA D.O.H.	4-3-1.1
2	670-547	CHARLES H. & DEBORAH A. RATLIFF	4-3-23.2
3	632-421	ROGER A. & NANCY L. HOLLIDAY	4-3-23
4	542-514	CHARLES H. & DEBORAH A. RATLIFF	4-3-31
5	628-030	MICHAEL & ETHEL L. RICHMOND	4-3-22
6	574-497	JAMES & KAREN HINDMAN	4-3-39
7	673-216	NORMA JEAN BRADFORD	4-3-41
8	655-491	DAVID A. YOUNG	4-4-35
9	648-353	JAMES W. & KELLY R. TAYLOR	4-4-62.4
10	604-482	HAZEL J. WOODS	4-4-61.1
11	538-585	RICHARD W. WOODS	4-4-61

TAG	LESSOR	TAG	LESSOR
A	CNX GAS COMPANY		KATHY LEE JONES
B	CHARLES RATLIFF, ET UX.		MICHAEL COFFIELD
C	ROGER A. HOLLIDAY & NANCY L. HOLLIDAY		TAMMY L. REYNOLDS
	ROGER A. HOLLIDAY, ET UX.		HAROLD DALE COFFIELD
D	CHARLES H. RATLIFF, ET UX.		LARRY DANKMER
E	MICHAEL RICHMOND & ETHEL L. RICHMOND		MICHELINE PICCIN
F	JAMES HINDMAN & KAREN HINDMAN		FRANK WELLS
G	NORMA JEAN BRADFORD		JACK HUNTSMAN
H	DAVID A. YOUNG, ET AL.		BEVERLY BURNS
I	DELORES MURDOCK	J	EDWARD A. DANKMER
	JAMES DOMBO		REBECCA SHUTLER
	ERIC D. COFFIELD		CHARLES O. COFFIELD
	ALAN B. COFFIELD		MAXINE P. GRIBBEN
	DANA Q. COFFIELD		REBECCA SUE FAHEY
	MELVIN POLINSKI		RUDOLPH HORVAT
	KEVIN POLINSKI		JACK HUNTSMAN
	MARY SIEBEL		RORY A. STALLING
	WILLIAM COFFIELD		RICHARD W. WOODS
	DOROTHY MCPEEK		RAYMOND W. WOODS
	TWILA COFFIELD		KEVIN M. BROWN
	TAMRA REYNOLDS		CHRISTOPHER M. BROWN
	VICKIE L. MOFFITT	ERIC W. BROWN	
	JOHN POLINSKI	RETТА WAYNE, ET AL.	
	ROY E. BENCZO	RAYMOND BROWN	
	TR 104945 LGL 4-4-62	K	RICHARD WOODS, ET UX.
	LLOYD DEXTER COFFIELD		

08/28/2015

WW-6A1
(5/13)

Operator's Well No. Woods 6H

**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				

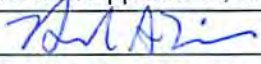
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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

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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: 
 Its: Permitting Team Lead

WOODS 6H

4705101851

QLS #	Parcel	Lessor	Lessee	Royalty	DB/P or Instrument #	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3
922182	A	CNX GAS COMPANY	CHEVRON USA INC	20.00%	INST 1356523	N/A	N/A	N/A
933707	B D	RATLIFF CHARLES	CHEVRON USA INC	18.00%	INST 1364250	N/A	N/A	N/A
934430	C	HOLLIDAY ROGER A	CHEVRON USA INC	18.00%	INST 1377389	N/A	N/A	N/A
921125	C	HOLLIDAY ROGER A	CHESAPEAKE APPALACHIA LLC	18.00%	INST 1291476	30/461 - Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	N/A	N/A
867159	E	RICHMOND MICHAEL	TRIENERGY HOLDINGS, LLC	16.00%	INST 1284504	24/180 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
867801	F	HINDMAN JAMES AND KARE	TRIENERGY HOLDINGS, LLC	18.00%	INST 1296852	24/430 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
918350	G	BRADFORD NORMA JEAN	NPAR LLC	18.00%	INST 1324405	"Both AB Resources, LLC and NPAR, LLC are listed on this document. On PG467, Gordon O. Yonel is the signatory for both of these entities as their CEO. NPAR, LLC was the entity under which AB Resources acquired leases in Marshall County"	29/277- AB Resources LLC to Chevron U.S.A. Inc.	N/A
921019	H	YOUNG DAVID A	CHESAPEAKE APPALACHIA LLC	18.75%	INST 1287761	30/461 - Chesapeake Appalachia, LLC to Chevron U.S.A. Inc.	N/A	N/A
868361	I	COFFIELD HAROLD DALE	TRIENERGY HOLDINGS LLC	18.00%	INST 1305651	24/489 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868362	I	COFFIELD LLOYD DEXTER	TRIENERGY HOLDINGS LLC	18.00%	INST 1305653	24/489 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868363	I	COFFIELD TWILA	TRIENERGY HOLDINGS LLC	18.00%	INST 1305652	24/489 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868364	I	COFFIELD CHARLES O	TRIENERGY HOLDINGS LLC	18.00%	INST 1305650	24/489 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868490	I	COFFIELD MICHAEL L	TRIENERGY HOLDINGS LLC	18.00%	INST 1308845	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868528	I	HUNTSMAN JACK	TRIENERGY HOLDINGS LLC	16.00%	INST 1307739	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868529	I	NEIDERT LOIS	TRIENERGY HOLDINGS LLC	16.00%	INST 1307744	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868530	I	HORVAT RUDOLPH E	TRIENERGY HOLDINGS LLC	16.00%	INST 1307767	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868558	I	KNIGHT KAREN	TRIENERGY HOLDINGS LLC	16.00%	INST 1309493	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
868580	I	GRIBBEN MAXINE P	TRIENERGY HOLDINGS LLC	18.00%	INST 1308014	26/123 - TriEnergy Holdings, LLC to NPAR, LLC	26/201 - NPAR, LLC to Chevron U.S.A. Inc.	N/A

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QLS #	Parcel	Lessor	Lessee	Royalty	DB/P or instrument #	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3
868647		ZAHNOW BRENDA	TRIENERGY HOLDINGS LLC	18.00%	INST 1308838	24/489 - TriEnergy Holdings, LLC to NPAR, LLC	756/332 - NPAR, LLC to Chevron U.S.A. Inc.	N/A
904931		DANKMER LARRY	TRIENERGY HOLDINGS LLC	16.00%	INST 1309652	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
904933		FAHEY REBECCA SUE	TRIENERGY HOLDINGS LLC	16.00%	INST 1309647	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
904934		REYNOLDS TAMMY L	TRIENERGY HOLDINGS LLC	16.00%	INST 1309649	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
904936		MOFFITT VICKIE L	TRIENERGY HOLDINGS LLC	16.00%	INST 1309654	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
905051		SHUTLER REBECCA	TRIENERGY HOLDINGS LLC	18.00%	INST 1311476	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
905052		BURNS BEVERLY	TRIENERGY HOLDINGS LLC	18.00%	INST 1311475	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
905053		COFFIELD WILLIAM	TRIENERGY HOLDINGS LLC	18.00%	INST 1315793	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
905153		DANKMER EDWARD A	TRIENERGY HOLDINGS LLC	16.00%	INST 1309650	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
905274		JONES KATHY LEE	TRIENERGY HOLDINGS LLC	17.00%	INST 1309645	28/348 - TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	N/A	N/A
916244		COFFIELD DANA Q	CHEVRON USA INC	16.00%	INST 1343321	N/A	N/A	N/A
916277		COFFIELD ALAN B	CHEVRON USA INC	16.00%	INST 1343688	N/A	N/A	N/A
916333		COFFIELD ERIC D	CHEVRON USA INC	16.00%	INST 1345174	N/A	N/A	N/A
919049		MCPEEK DOROTHY	CHEVRON USA INC	15.00%	INST 1353042	N/A	N/A	N/A
919054		MURDOCK DELORES	CHEVRON USA INC	15.00%	INST 1353043	N/A	N/A	N/A
919179		WELLS FRANK	CHEVRON USA INC	15.00%	INST 1354113	N/A	N/A	N/A
920258		POLINSKI JOHN	CHEVRON USA INC	15.00%	INST 1355041	N/A	N/A	N/A
920273		POLINSKI KEVIN	CHEVRON USA INC	15.00%	INST 1355038	N/A	N/A	N/A
923260		POLINSKI MELVIN	CHEVRON USA INC	15.00%	INST 1366238	N/A	N/A	N/A
934437		PICCIN MICHELINE	CHEVRON USA INC	15.00%	INST 1377471	N/A	N/A	N/A
934572		BENCZO ROY E	CHEVRON USA INC	15.00%	INST 1371093	N/A	N/A	N/A
934658		DOMBO JAMES	CHEVRON USA INC	15.00%	INST 1370875	N/A	N/A	N/A
934710		MCGRANE JOBE N	CHEVRON USA INC	18.00%	INST 1371772	N/A	N/A	N/A
934862		HUNTSMAN JACK	CHEVRON USA INC	15.00%	INST 1371094	N/A	N/A	N/A
935263		ANDREATOS ANN E	CHEVRON USA INC	18.00%	Please see attached lease	N/A	N/A	N/A
935266		SIEBEL MARY	CHEVRON USA INC	15.00%	INST 1374519	N/A	N/A	N/A
935268		STALLINGS RORY A	CHEVRON USA INC	15.00%	INST 1374522	N/A	N/A	N/A

Approved
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 JUN 23 2015

4705101851

QLS #	Parcel	Lessor	Lessee	Royalty	DB/P or instrument #	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3
935391	I	REYNOLDS TAMRA	CHEVRON USA INC	16.00%	INST 1378267	N/A	N/A	N/A
905273	J	BROWN RAYMOND	TRIENERGY HOLDINGS LLC	12.50%	INST 1303935	28/348 - TriEnergy Holding LLC to Chevron U.S.A. Inc.	N/A	N/A
866638	J	WAYNE RETTA	TRIENERGY, INC	18.00%	INST 1253992	21/545 - TriEnergy Holdings, LLC to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	N/A
866643	J	BROWN KEVIN M	TRIENERGY, INC	18.00%	INST 1253991	21/531 - TriEnergy Holdings, LLC to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	N/A
866641	J	BROWN CHRISTOPHER M	TRIENERGY, INC	18.00%	INST 1253990	21/545 - TriEnergy Holdings, LLC to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	N/A
866642	J	BROWN ERIC W	TRIENERGY, INC	18.00%	INST 1253989	21/545 - TriEnergy Holdings, LLC to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	N/A
866640	J	WOODS RICHARD W	TRIENERGY, INC	18.00%	INST 1253988	21/545 - TriEnergy Holdings, LLC to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	N/A
866639	J	WOODS RAYMOND W	TRIENERGY, INC	18.00%	INST 1253987	21/545 - TriEnergy Holdings, LLC to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	N/A
866562	K	WOODS RICHARD	TRIENERGY, INC	18.00%	INST 99115	21/545 - TriEnergy Holdings, LLC to AB Resources LLC	756/397 - AB Resources LLC to Chevron U.S.A. Inc.	N/A

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PAID-UP OIL AND GAS LEASE

This PAID-UP OIL AND GAS LEASE ("Lease") dated as of the 29th day of October 2014 (the "Effective Date") is made by and between ANN E. ANDREATOS, A MARRIED WOMAN DEALING IN HER SOLE AND SEPARATE PROPERTY, with an address at 12700 KNOLLBROOK DRIVE, CLIFTON, VA 20124 ("Lessor") and CHEVRON U.S.A. INC., a PENNSYLVANIA CORPORATION, of WESTPOINTE CORPORATE CENTER ONE, 1550 CORAOPOLIS HEIGHTS ROAD, P.O. BOX 611, MOON TOWNSHIP, PA 15108 ("Lessee").

1. GRANT OF LEASED PREMISES.

- 1.1 **Granting Clause.** In consideration of \$1.00 and other valuable consideration in hand paid by the Lessee, the receipt of which is hereby acknowledged, and the covenants and agreements contained in this Lease, Lessor hereby grants, bargains, leases and lets exclusively to Lessee as to all depths the following described land:

See attached Exhibit "A" for description of leased premises.

being all that certain tract of land situated in NA District, NA County, State of NA, and further identified as Tax Parcel NA, being all the property owned by Lessor or to which the Lessor may have any rights in ~~and District or adjoining District~~, containing NA(NA) acres, more or less, and being the property described in ~~Deed/Record Volume NA, Page NA~~ or Instrument Number NA of the County Clerk of the aforesaid county, for the purpose of exploring for, developing, producing and marketing oil, gas, brine, along with all hydrocarbon substances produced in association therewith from all strata or depth formation ("Leased Substances"). As used in this Lease, the term "Leased Premises" includes the land described above along with accretions and any small strips or parcels of land now or hereafter owned by Lessor that are contiguous or adjacent to the Leased Premises. Lessor shall execute at Lessee's request any additional or supplemental instruments for a more complete or accurate description of the Leased Premises. This Lease includes all Leased Substances underlying lakes, streams, roads, streets, alleys, easements and rights of way that traverse or adjoin the Leased Premises. For the purpose of determining the amount of payments based on acreage under this Lease, the number of gross acres stated above will be deemed correct, whether actually more or less. As to the estate created hereby, Lessor hereby relinquishes, releases, and waives all rights under and by virtue of the laws of the state where the Leased Premises are located, including but not limited to the homestead exemption, and other rights substitutive thereof.

- 1.2 **Ancillary Rights.** Under this Lease, Lessee shall have the right: to ingress to and egress from the Leased Premises or lands pooled or unitized therewith; to conduct seismic, geophysical operations and testing using current or future technology; to drill wells; to construct and use roads, pipelines, tanks, water pipelines, pits, electric and telephone lines, power stations, and other facilities; and to place equipment deemed necessary by Lessee to explore, discover, produce, store, treat and transport Leased Substances and water produced from the Leased Premises or from other lands that share central facilities and are jointly operated with the Leased Premises for gathering, treating, compression and water disposal. Lessee may use in such operations, free of cost and royalty, oil, gas, water and other substances produced on the Leased Premises, except water from ~~Lessee's water wells or ponds~~. At any time, including after the termination of this Lease, Lessee may remove its fixtures, equipment and materials, including well casing, from the Leased Premises; or enter onto the Leased Premises and conduct surface testing, groundwater monitoring, and restoration and remediation activities related to applicable environmental laws, rules, regulations or orders, or as deemed necessary by Lessee.

2. TERM AND CONSIDERATION.

- 2.1 **Term of Lease.** This Lease is for a primary term of Five (5) years from the Effective Date ("Primary Term") and for as long thereafter as Leased Substances are produced or are capable of being produced in paying quantities from Lessee's Operations on the Leased Premises or from lands pooled or unitized with the Leased Premises, or any Operation permitted under this Lease is being conducted on the Leased Premises, or this Lease is otherwise maintained in effect by other provisions of this Lease. As used in this Lease, the terms "Operation" or "Operations" mean any activity conducted on or off the Leased Premises that is prosecuted with no interruption of more than 180 consecutive days that is reasonably calculated to obtain or restore production, including: (i) drilling or any act preparatory to drilling (such as obtaining permits, surveying a drill site, staking a drill site, building roads, clearing a drill site, or hauling equipment or supplies); (ii) completing or

any act to ready a drilled well for production (such as fracturing, venting, dewatering, stimulating, or installing production equipment); (iii) reworking, recompleting, plugging back, deepening, treating, stimulating, refitting, installing artificial lift or production-enhancement equipment or technique; (iv) constructing facilities related to the production, treatment, transportation and marketing of substances produced from the Leased Premises; (v) contracting for marketing services and sale of Leased Substances; and (vi) construction of water disposal facilities and the physical movement of water produced from the Leased Premises. Before the Primary Term ends, Lessee may renew this Lease for an additional **Five (5)** years. Lessee may exercise this option by paying Lessor the sum of **Four Thousand Two Hundred Fifty** dollars (**\$4,250.00**) per acre and other good and valuable consideration per acre, which will serve as total consideration for the extension of this Lease. Should Lessee elect to exercise this option, all terms and conditions of this Lease will remain in full force and effect.

- 2.2 **Paid-Up Lease.** This Lease, however, will become null and void and all rights of either party under this Lease will cease and terminate unless, within 120 days from the Effective Date or the date of the last Notary Public Acknowledgment of any of the signatories hereto, whichever is the later, Lessee pays Lessor a lease bonus of **Four Thousand** dollars (**\$4,000.00**) per acre. This is a paid-up lease and Lessee shall not be obligated during the Primary Term to make any further payments or to commence or continue Operations in order to maintain this Lease in force. Money payable under this Lease may be paid in cash or by check, mailed or delivered to Lessor or to the credit of Lessor in NA (the "Bank") at NA which Bank, by a power irrevocable, is hereby made Lessor's agent to receive and disburse such payments. Payments or tenders due or payable under the terms of this Lease, other than royalties on actual production, may be made by mailing or delivering cash or Lessee's check or draft to Lessor or to the Bank on or before such date of payment. If the Bank fails or refuses to accept the payment, Lessee will not be held in default for failure to pay, unless Lessee fails to pay or tender such payment within 30 days after Lessor delivers to Lessee a recordable instrument designating another depository bank. The Bank or any other bank designated as depository (as the case may be) will continue as such and as Lessor's agent, regardless of changes in ownership of Lessor's interest. Lessee may pay or tender such payments jointly to the credit of all parties having any interest under this Lease. Lessor shall accept the consideration or royalties paid and to be paid under this Lease as adequate and full consideration for all the rights granted to Lessee under this Lease, and the further right to drill or not drill on the Leased Premises, whether to offset producing wells on adjacent or adjoining lands or otherwise, as Lessee may elect.

- 2.3 **Royalties.** Lessee covenants and agrees to deliver the following:

- (A) **On Oil:** To deliver to the credit of the Lessor, in tanks or pipelines at or near the well, equal part of all oil or condensate produced and saved from the Leased Premises, or at Lessee's option, to pay to Lessor **18%** of the market value at the well for oil or condensate of like grade and gravity. Market value will be based on either Lessee's sales proceeds or a published index price and will be less the Lessor's pro rata share of any post-production costs, including costs for collection, transportation and refining (which may include charges payable to affiliates of Lessee).
- (B) **On Gas:** To pay to the Lessor, as royalty for gas (including casinghead gas or other gaseous substances), and including residue gas and natural gas liquids, sold or removed off the Leased Premises and produced from each well drilled thereon **18%** of the market value at the well. Market value shall be based on either Lessee's sales proceeds or a published index price. Lessor's share shall be charged its pro rata **18%** share, to be deducted from the gross value of royalty payable, of the costs incurred by the Lessee to (1) gather and transport gas from the well to a processing plant or pipeline, and to transport any residue gas to the point of sale to a third party; (2) to compress gas to pipeline pressure requirements, whether such compression occurs on or off the lease or before or after processing; (3) to treat gas for the removal of non-hydrocarbons including, but not limited to, water, carbon dioxide and hydrogen sulfide; (4) to process gas by any method for the recovery of liquid hydrocarbons; and (5) to fractionate liquid hydrocarbons and transport the recovered products to the point of sale to a third party.
- (C) To deduct from payments in (A) and (B) above, Lessor's pro rata share of any taxes, charges, or fees imposed by any government body.
- (D) That all charges of costs described in the foregoing clauses (A) and (B) are reasonable.

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08/28/2015

- (E) Royalty to Lessor will be computed and paid without the deduction for costs of exploration, development and production.
- (F) Royalty is not owed on produced volumes that are used as fuel or lost due to flaring, venting or otherwise.

2.4 **Shut-in Payment.** After the Primary Term, if one or more wells on the Leased Premises or lands pooled or unitized therewith have been drilled to total depth or are capable of producing Leased Substances in paying quantities, but their production is not being sold (each a "Shut-In Well"), then the Shut-In Well or Wells will nevertheless be deemed to be producing in paying quantities for the purpose of maintaining this Lease. If for a period of one year the Shut-In Well or Wells are shut in or their production is not sold, then Lessee shall pay an aggregate shut-in payment of ten dollars (\$10.00) per acre per year (the "Shut-In Payment"), regardless of how many Shut-In Wells are actually located on the Leased Premises or lands pooled or unitized with the Leased Premises. However, no Shut-In Payment will be due if this Lease is otherwise maintained in force by production or Operation on the Leased Premises or on lands pooled or unitized with the Leased Premises. Lessee's failure to properly pay the Shut-In Payment will render Lessee liable for the unpaid amount due but will not cause this Lease to terminate. Shut-In Payments will be made in the same manner as provided elsewhere in this Lease for payments to Lessee but will not be in lieu of any royalty based on actual production.

3. OPERATIONS.

3.1 **Dry Hole/Cessation of Operations.** If Lessee drills a well that is incapable of producing in paying quantities (a "Dry Hole") on the Leased Premises or on lands pooled or unitized therewith, or if all production (whether or not in paying quantities) permanently ceases from any cause (including a revision of unit boundaries pursuant to the provisions of this Lease or the action of any governmental authority), and if this Lease is not otherwise being maintained in force, then this Lease will remain in force if, within 180 days after Operations on the Dry Hole are completed or within 180 days after all production has ceased, Lessee commences further Operations for reworking an existing well, for drilling an additional well, or for otherwise obtaining or restoring production on the Leased Premises or lands pooled or unitized with the Leased Premises. If, after the Primary Term, this Lease is not otherwise being maintained in force, but Lessee is then engaged in Operations, this Lease will remain in force so long as one or more Operations are prosecuted with no interruption of more than 180 consecutive days and, if Operations result in the production of Leased Substances, for so long thereafter as there is production in paying quantities from the Leased Premises or lands pooled or unitized with the Leased Premises.

3.2 **Unitization.** Lessee may at any time pool, unitize, or combine part or all of the Leased Premises, and any of its strata, with other lands, and any or all strata within such other lands to create one or more units up to the maximum size allowed by law. No unit may be created for any purpose including, but not limited to, Operations, drilling and producing one or more oil or gas reservoirs or portions thereof. In exercising pooling rights under this Lease, Lessee shall file of record a written declaration describing the unit and stating the effective date of pooling. Subject to Section 5, Lessor's royalties will be calculated in proportion to the amount of acres covered by this Lease and included in the unit, divided by the total acres in the unit. Lessee is not required to drill more than one well in a unit. Operations on any well within a unit that includes all or part of the Leased Premises will constitute, for all purposes of this Lease, a well commenced or operated upon the Leased Premises. Lessee may at any time increase or decrease the size of a unit. To revise a unit, Lessee shall file of record a written declaration describing the revised unit and stating the effective date of the revision.

Lessee shall have the right but not the obligation to commit all or any part of the Leased Premises to one or more unit plans or agreements for cycling, pressure maintenance, repressuring or secondary recovery programs, or for other cooperative development or operation of one or more oil or gas reservoirs or portions of them, if in Lessee's judgment such plans or agreements will prevent waste and protect correlative rights. When such a commitment is made, this Lease will be subject to the terms and conditions of the unit plan or agreement, including any formula for the allocation of production from the unit.

Lessee may terminate a unit by filing of record a written declaration describing the unit and stating the date of termination. Unitization will not constitute a cross-conveyance of interests.

- 3.3 **Payment Reductions.** If Lessor owns less than the entire and undivided fee simple estate in the Leased Premises, then any bonuses, royalties and Shut-In Payments under this Lease will be paid to Lessor only in the proportion that Lessor's interest bears to the whole, undivided fee simple. If two or more parties own the Leased Premises, or if the ownership of any interest in the Leased Premises is transferred by sale, devise or operation of law, Lessee may nevertheless develop and operate the Leased Premises as an entirety, and any bonuses and royalties will be divided among and paid to such several owners in the proportion that each owner's acreage bears to the entire acreage of the Leased Premises.
- 3.4 **Ownership Changes.** This Lease will run with the Leased Premises. Lessor may assign, devise or otherwise transfer in whole or in part, by area or by depth or zone, its rights and obligations under this Lease. Lessor's assignment, devise or other transfer will not be binding on Lessee until 60 days after Lessee has received the original or duly authenticated copies of the documents establishing to Lessee's satisfaction the assignment, devise or other transfer, or until Lessor has satisfied the notification requirements contained in Lessee's usual form of division order.
- 3.5 **Release of Lease.** Lessee may, at any time, surrender or release this Lease in whole or in part. During the Primary Term of this Lease, surrender may occur by giving Lessor written notice describing the portion surrendered, by returning the Lease to Lessor with the endorsement of surrender, or by recording a release or partial release of this Lease. Any of these methods will constitute a full and legal surrender of this Lease as to that portion of the Leased Premises indicated on the release. The Lease bonus set forth above will be reduced in proportion to the acreage surrendered. After the Primary Term, Lessee may deliver to Lessor or file of record a written release of this Lease as to that portion surrendered. Upon the delivery or filing of the release, the Lessee will be relieved of all subsequent obligations with respect to the interest released. If Lessee releases less than all of the interest or area covered hereby, Lessee's obligation to tender Shut-In Payments will be reduced in proportion to the net acreage interest Lessee retains.
- 3.6 **Assignment.** Lessee may assign this Lease in whole or in part, and Lessor waives notice of assignment of this Lease. Lessee's failure to pay a bonus or royalty on any part of this Lease will not void this Lease as to any other part. Lessor agrees that upon Lessee's assignment of this Lease, Lessee will have no further obligations or liabilities under this Lease. If Lessee transfers a full or undivided interest in all or any portion of the Leased Premises, the obligation to tender payments will be divided between Lessee and the transferee in proportion to their respective net acreage interests.
- 3.7 **Well Location; Pipelines; Reclamation.** The center of the well pad must be at least 625 feet from any occupied dwelling or any building larger than 2500 square feet used to house dairy cattle or poultry husbandry. Lessor shall not erect buildings or plant trees within 25 feet of a pipeline right of way or within 200 feet of any well without Lessee's express written permission. If Lessor is the surface owner at the time Lessee commences Operations on the surface, Lessee shall pay Lessor for damage that its Operations cause to buildings and other improvements now on the Leased Premises, and to commercial timber and growing crops on the Leased Premises, in accordance with WV Code 22-6B-1, et seq.. When requested by Lessor in writing, if reasonably possible, Lessee will bury its pipelines below ordinary plow depth on lands cultivated at the time of the request. Lessee agrees to reclaim the Leased Premises in accordance with applicable state laws.
- 3.8 **Driveway Permits and Other Regulatory Documents.** Lessor shall sign all driveway permits and other regulatory documents required by any governmental or regulatory body to commence or perform Operations on the Leased Premises. If Lessor cannot sign or refuses to sign driveway permits or other regulatory documents, Lessor hereby authorizes Lessee to sign such driveway permits and other regulatory documents on Lessor's behalf.
- 3.9 **Surface Coal.** If Lessee encounters coal owned by Lessor on or under the Leased Premises during construction of a well site, then Lessee may remove and dispose of that coal. Lessee shall have the exclusive right to value and sell the coal so long as the sale is based on an arm's length transaction. If the value of the coal removed exceeds the cost of the removal, Lessee shall pay Lessor the difference.
- 3.10 **Regulation.** Lessee's obligations under this Lease, whether express or implied, will be subject to all applicable laws, rules, regulations and orders of any governmental authority having jurisdiction, including restrictions on the drilling and production of wells, and regulation of the price or transportation of Leased Substances.

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4. **FORCE MAJEURE.** If Lessee is unable to perform any obligations under this Lease by reason of a Force Majeure Event, Lessee's obligations will be suspended for the duration of the Force Majeure Event and for a period of time thereafter equal to 180 days or the amount of time left in the term of this Lease when the Force Majeure Event began, whichever is longer. This Lease will not terminate because of such prevention or delay. "Force Majeure Event" means (A) an act of God; (B) strike, lockout, or other industrial disturbance; (C) an act of the public enemy, war, terrorism, sabotage, insurrection, blockade or public riot; (D) severe weather conditions, lightning, fire, storm, flood, epidemic or other act of nature; (E) explosion; (F) governmental action, delay, restraint or inaction; (G) unavailability of equipment, services, materials, water, electricity, fuel, access or easements; (H) failure of purchasers or carriers to take or transport production; (I) permitting delay or suspension resulting from the action or inaction of any coal operator, the action or inaction of any storage field operator, any environmental or regulatory rule, regulation, or law (including, without limitation, delay resulting from compulsory natural resource diversity study for endangered or potentially endangered species or requirements for an erosion and sediment control permit, or lack of available waste disposal facilities due to regulatory actions or changes in the law), a compulsory study for potential historical or archeologically significant concern, the action or inaction of zoning authorities, the application of zoning permit requirements, the action or inaction of development authorities, or restrictions on the use of roads; and (J) any other occurrence not reasonably within Lessee's control, whether of the kind specifically enumerated above or otherwise. In the event Lessee experiences a Force Majeure Event, Lessee shall promptly provide Lessor written notice at Lessor's last known address. When the Force Majeure Event ends, Lessee shall promptly provide Lessor written notice at Lessor's last known address.

5. **DISPUTE RESOLUTION.**

5.1 **Resolution of Disputes.** If any dispute arises out of, or in relation to this Lease, and if the dispute cannot be resolved by direct negotiations, either Party shall initiate mediation by giving notice to the other. If the dispute is not resolved by mediation within 60 days from the date of the notice requiring mediation, either party must initiate binding arbitration by giving notice to the other. All claims must be brought in a Party's individual capacity, and not as a plaintiff or class member in any purported class or representative proceeding, and there shall be no right or authority for any disputes to be arbitrated on a class action basis.

5.2 **Arbitration Proceedings.** The following provisions will apply to arbitration proceedings pursuant to Section 5.1:

(A) The place of arbitration will be Allegheny County, Pennsylvania.

(B) One arbitrator (or three arbitrators if the monetary value of the dispute is more than US\$5,000,000) will conduct the arbitral proceedings in accordance with the International Institute for Conflict Prevention and Resolution ("CPR") Rules. To the extent of any conflicts between the Act or the CPR Rules and the provisions of this Lease, the provisions of this Lease shall prevail. The CPR is the appointing authority.

(C) The parties shall submit true copies of all documents considered relevant with their respective statement of claim or defense, and any counterclaim or reply. Neither party may compel the other to produce additional documents. The maximum number of witnesses each party may call to give evidence is three witnesses of fact and one expert witness.

(D) The arbitrator(s) does not have the power to award, nor shall the arbitrator(s) award, any punitive, indirect or consequential damages (however denominated). All arbitration fees and costs shall be paid equally, regardless of which party prevails, unless provided to the contrary in this Lease. Each party shall pay its own costs of legal representation and witness expenses.

(E) The arbitrator(s) must render a reasoned award in writing. The award is final and binding.

(F) The dispute will be resolved as quickly as possible. The arbitration award must be issued within three months from completion of the hearing, or as soon as possible thereafter.

6. **MISCELLANEOUS.**

6.1 **Right of First Refusal.** Lessee shall have the right of first refusal if Lessor receives an offer to grant an additional lease ("Top Lease") covering all or part of the Leased Premises

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during the term of this Lease or an extension or renewal of this Lease. Lessor shall send Lessee a copy of the offer with the proposed Lessee's name, bonus consideration and royalty consideration, along with a copy of the lease form. Upon receiving copies of both the offer and the lease form, Lessee will have fifteen days to notify Lessor whether Lessee will enter into an oil and gas lease with Lessor on equivalent terms and conditions. Lessee's decision not to enter into an oil and gas lease on equivalent terms and conditions will not result in forfeiture of this Lease or any right to renew this Lease in accordance with its terms. In the event that Lessor breaches this section, Lessee will be entitled to either an award of monetary damages or a decree of specific performance, at Lessee's election.

6.2 **Warranty of Title; Further Assurances.** All covenants and conditions between Lessor and Lessee will extend to their respective heirs, personal representatives, successors and assigns, and Lessor specially warrants and agrees to defend title to the Leased Premises. Lessor covenants that Lessee will have quiet enjoyment of the Leased Premises. Lessor shall sign such additional documents as Lessee may reasonably request to perfect Lessee's title to the oil and gas rights and such other documents relating to the sale of production as may be required by Lessee or others. Lessee, in its sole discretion, may pay and discharge any taxes, mortgages, claims or liens existing, levied or assessed on or against the Leased Premises. If Lessee exercises such option, Lessee will be subrogated to the rights of the party to whom payment is made and, in addition to its other rights, may reimburse itself out of any royalties or Shut-In Payments otherwise payable to Lessor. In the event Lessee learns of any claim inconsistent with Lessor's title, Lessee may suspend the payment of royalties and Shut-In Payments, without interest, until Lessee receives satisfactory evidence that the claim has been resolved in Lessor's favor. Pending resolution of the claim, this Lease will not terminate.

6.3 **Notice and Opportunity to Cure.** In the event Lessor believes that Lessee has not complied with its obligations under this Lease, whether express or implied, Lessor shall notify Lessee in writing at the Lessee's address set forth above, stating specifically in what respects Lessee has breached. Lessee will then have 90 days after receipt of the notice to cure or commence to cure all or any part of the alleged breaches. Lessor shall serve Lessee notice before bringing any action on this Lease and will not commence any litigation or arbitration until at least 90 days after service of the notice on Lessee. Neither the service of the notice nor the performance of any acts by Lessee aimed at curing all or any part of the alleged breaches will be deemed an admission or presumption that Lessee has failed to perform all its obligations under this Lease.

6.4 **Integration; Severability.** This Lease and the contemporaneous Addenda (if any) and Payment Attachment together contain and express all of the agreements and understandings of the parties in regard to the subject matter thereof, and no implied covenant, agreement or obligation may be read into this Lease or imposed upon the parties. Each provision of this Lease is severable and if any provision is determined to be invalid, unenforceable or illegal under any existing or future law by a court or arbitrator of competent jurisdiction, or by operation of any applicable law, this invalidity, unenforceability or illegality will not impair the operation of or affect those portions of this Lease that are valid, enforceable and legal, so long as the economic or legal substance of the transactions contemplated hereby is not affected in any manner adverse to any party.

6.5 **Conflict of Interest.** Lessor, Lessor's directors, employees, agents and subcontractors, and their respective directors, employees and agents, shall not give to or receive from any director, employee or agent of Lessee or of any affiliate of Lessee any gift, entertainment or other favor of significant value, or any commission, fee or rebate. Lessor, Lessor's directors, employees, agents and subcontractors, and their respective directors, employees and agents shall not enter into any business relationship with any director, employee or agent of Lessee or of any affiliate of Lessee, without prior written notification to Lessee, unless such person is acting for and on behalf of Lessee or any such affiliate. Lessor shall notify Lessee of any violation of this section. Lessor shall maintain true and correct records in connection with all matters relating to this Lease and shall retain such records for at least 24 months following the expiration or termination of this Lease. Lessee may audit (or appoint an independent third party auditor to audit) any and all records of Lessor to determine whether Lessor has complied with this section. Lessee may terminate this Lease if there is a violation of this section which (A) occurred prior to the Effective Date and (B) resulted directly or indirectly in Lessee's consent to enter into this Lease.

6.6 **Counterparts.** This Lease may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts must be construed together and will constitute one Lease. Should less than all of the named Lessors execute this Lease, this Lease will be binding on those who are signatories.

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6.7 Management Approval. Lessor understands and agrees that Lessee is not obligated to pay the bonus payment to Lessor until this Lease has been reviewed and approved by Lessee's management. Management approval will occur on the earlier of (A) the date on which the Department of Environmental Protection issues Lessee a permit to drill a well on the Leased Premises or on lands unitized therewith (subject to Section 3.2 above) or (B) the date on which Lessee mails the lease bonus to Lessor. Lessee's execution and recordation of a Memorandum of this Lease will not constitute and may not be deemed to be management approval of the Lease.

IN WITNESS WHEREOF, this Lease is executed to be effective as of the Effective Date, but upon execution will be binding on the signatory and the signatory's heirs, devisees, executors, administrators, successors and assigns, whether or not this Lease has been executed by all persons identified above as Lessor, intending to be legally bound.

LESSOR:



ANNE E. ANDREATOS

LESSOR:


INDIVIDUAL ACKNOWLEDGEMENT

STATE/Commonwealth of *Virginia*)
COUNTY OF *Fairfax*) SS:

On this, the *21st* day of *October*, 20 *14* before me, the undersigned authority, personally appeared ANN E. ANDREATOS, A MARRIED WOMAN DEALING IN HER SOLE AND SEPARATE PROPERTY, known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to in the foregoing instrument, and acknowledged to me that she executed the same for the purposes therein contained.

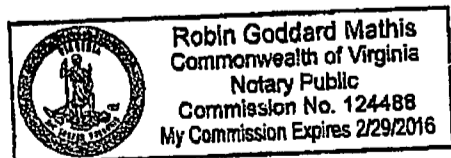
IN WITNESS WHEREOF, I hereunto set my hand and official seal.

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Office of Oil & Gas
JUN 03 2015


Notary Public

My commission expires: *02/29/2016*

Prepared by and return to:
CHEVRON U.S.A. INC.
WESTPOINTE CORPORATE CENTER ONE
1550 CORAOPOLIS HEIGHTS ROAD, P.O. BOX 611
MOON TOWNSHIP, PA 15108



08/28/2015

EXHIBIT "A"

Attached to and made a part of Oil and Gas Lease dated October 24 2014,
by and between Ann E. Andreatos, a married woman dealing in her sole and separate
property, as Lessor and Chevron U.S. A. Inc., as Lessee.

Tract I

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax
Parcel 4-4-62 and bounded substantially as follows:

North by lands of: Long

East by lands of: Goldbaugh

South by lands of: Taylor

West by lands of: Bradford

being all the property owned by Lessor or to which the Lessor may have any rights in
said Section/Lot/District or adjoining Sections/Lots/Districts, containing Twenty Four
and Seven Hundred Forty Thousandths (24.740) acres, more or less, and being the
property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall
County office of the Clerk.

Tract II

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax
Parcel 4-4-62.2 and bounded substantially as follows:

North by lands of: Gray

East by lands of: McCartney

South by lands of: Taylor

West by lands of: Long

being all the property owned by Lessor or to which the Lessor may have any rights in
said Section/Lot/District or adjoining Sections/Lots/Districts, containing
Zero and One Hundred Ninety Six Thousandths (0.196) acres, more or less, and
being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the
Marshall County office of the Clerk.

Tract III

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax
Parcel 4-4-62.3 and bounded substantially as follows:

North by lands of: Gray

East by lands of: Stout

South by lands of: Kolacinski

West by lands of: Kolacinski

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being all the property owned by Lessor or to which the Lessor may have any rights in
said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and One
Hundred Ninety Six Thousandths (0.196) acres, more or less, and being the property
described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County
office of the Clerk.

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Tract IV

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.4 and bounded substantially as follows:

North by lands of: Kolacinski

East by lands of: Gouldsberry

South by lands of: Woods

West by lands of: Woods

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing **Forty Four and Four Hundred Ninety Thousandths (44.490)** acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

Tract V

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.5 and bounded substantially as follows:

North by lands of: Kolacinski

East by lands of: Stout

South by lands of: Taylor

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing **Zero and Three Hundred Sixteen Thousandths(0.316)** acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

Tract VI

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.6 and bounded substantially as follows:

North by lands of: Jenkins

East by lands of: Jenkins

South by lands of: Jenkins

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing **Zero and Six Hundred Ninety Six Thousandths (0.696)** acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

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Tract VII

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.7 and bounded substantially as follows:

North by lands of: Jenkins

East by lands of: Jenkins

South by lands of: Goldbaugh

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and Four Hundred Eighty Nine Thousandths (0.489) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

Tract VIII

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.8 and bounded substantially as follows:

North by lands of: Jenkins

East by lands of: Stout

South by lands of: Gray

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and Seven Hundred Eight Thousandths (0.708) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

Tract IX

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.9 and bounded substantially as follows:

North by lands of: Goldbaugh

East by lands of: Jenkins

South by lands of: Gray

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and Three Hundred Ninety Three Thousandths (0.393) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

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Tract X

Situated in Washington District, Marshall County, West Virginia, and further identified as Tax Parcel 14-12-62 and bounded substantially as follows:

North by lands of: Jenkins

East by lands of: McCartney

South by lands of: Allen

West by lands of: Taylor

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing **Zero and Seven Hundred Fifty Thousandths (0.750)** acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

For the purpose of this agreement containing a total of **Sixty Nine and One Hundred Seventy Thousandths(69.170)** acres, more or less.

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Lessor:


Ann E. Andreatos

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JUN 03 2015

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MEMORANDUM OF OIL AND GAS LEASE

KNOW ALL MEN BY THESE PRESENTS:

That CHEVRON U.S.A. INC. , a PENNSYLVANIA CORPORATION, of WESTPOINTE CORPORATE CENTER ONE, 1550 CORAOPOLIS HEIGHTS ROAD, P.O. BOX 611, MOON Ann E. Andreatos, a married woman dealing in her sole and separate property , whose address is 12700 KnollBrook Drive, Clifton, VA 20124, ("Lessor"), have entered into a Paid Up Oil and Gas Lease (the "Lease") dated as of October 21, 2014 (the "Effective Date"), covering the following described land:

See attached Exhibit "A" for description of leased premises.

being all that certain tract of land situated in NA DISTRICT, NA County, State of NA, and further identified as Tax Parcel NA, being all the property owned by Lessor or to which the Lessor may have any rights in said DISTRICT or adjoining DISTRICT, containing NA (NA) acres, more or less, and being the property described in Deed/Record Volume NA, Page NA of the County Clerk of the aforesaid county, for the purpose of exploring for, developing, producing and marketing oil, gas, brine, along with all hydrocarbon substances produced in association therewith from all strata or depth formation ("Leased Substances"). As used in the Lease, the term "Leased Premises" includes the land described above along with accretions and any small strips or parcels of land now or hereafter owned by Lessor that are contiguous or adjacent to the Leased Premises.

The Lease will be in effect for a primary term of Five (5) years from the Effective Date and for as long thereafter as Leased Substances are produced or are capable of being produced in paying quantities from Lessee's operations on the Leased Premises or from lands pooled or unitized with the Leased Premises, or any operation permitted under the Lease is being conducted on the Leased Premises, or this Lease is otherwise maintained in effect by other provisions of the Lease.

Prior to the end of the primary term, the Lessee shall have the option to renew the Lease for an additional period of Five (5) years.


Lessee shall have the right of first refusal if Lessor receives an offer to grant an additional lease ("Top Lease") covering all or part of the Leased Premises during the term of this Lease or an extension or renewal of this Lease.

If Lessee drills a well that is incapable of producing in paying quantities (a "Dry Hole") on the Leased Premises or on lands pooled or unitized therewith, or if all production (whether or not in paying quantities) permanently ceases from any cause (including a revision of unit boundaries pursuant to the provisions of the Lease or the action of any governmental authority), and if the Lease is not otherwise being maintained in force, then the Lease will remain in force if, within 180 days after received the Dry Hole are completed or within 180 days after all production has ceased, Lessee commences further operations for reworking an existing well, for drilling an additional well, or for Office of Oil & Gas otherwise obtaining or restoring production on the Leased Premises or lands pooled or unitized with the Leased Premises. If, after the Primary Term, the Lease is not otherwise being maintained in force, but Lessee is then engaged in operations, the Lease will remain in force so long as one or more operations are prosecuted with no interruption of more than 180 consecutive days and, if operations result in the production of Leased Substances, for so long thereafter as there is production in paying quantities from the Leased Premises or lands pooled or unitized with the Leased Premises.

08/28/2015

This Memorandum is placed of record to serve as notice of the execution and existence of said Lease, and in no way supersedes, abrogates, changes or modifies any of the terms, conditions, rights or obligations of any parties, all of which are set forth in detail in the Lease. The terms and conditions of said Lease are incorporated by reference as if set forth in full. This Memorandum may be executed either as one instrument or in several partially executed counterparts and the original and all counterparts must be construed together and will constitute one Memorandum. Lessee's execution and recordation of this Memorandum does not constitute and may not be deemed to be management approval of the Lease.

IN WITNESS WHEREOF, this instrument executed this 24th day of October, 2014

<p>LESSOR: Ann E. Andreatos</p>  <p>LESSOR:</p>	<p>LESSEE:</p> <p>CHEVRON U.S.A. INC.</p> <p>By: _____</p> <p>Name: _____</p> <p>Its: _____</p>
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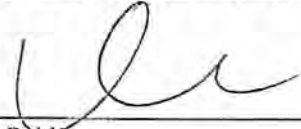
INDIVIDUAL ACKNOWLEDGEMENT

STATE/Commonwealth of Virginia)
COUNTY OF Fairfax)

ss:

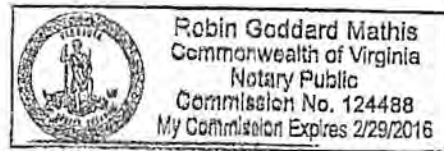
Before me, the undersigned authority, on this day personally appeared Ann E. Andreatos, a married woman dealing in her sole and separate property, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that they executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 24th day of October, 2014



Notary Public

My Commission Expires: 02/29/2016



Received
Office of Oil & Gas
JUN 03 2015

08/28/2015

EXHIBIT "A"

Attached to and made a part of Oil and Gas Lease dated October 24 2014,
by and between Ann E. Andreatos, a married woman dealing in her sole and separate
property, as Lessor and Chevron U.S. A. Inc., as Lessee.

Tract I

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax
Parcel 4-4-62 and bounded substantially as follows:

North by lands of: Long

East by lands of: Goldbaugh

South by lands of: Taylor

West by lands of: Bradford

being all the property owned by Lessor or to which the Lessor may have any rights in
said Section/Lot/District or adjoining Sections/Lots/Districts, containing Twenty Four
and Seven Hundred Forty Thousandths (24.740) acres, more or less, and being the
property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall
County office of the Clerk.

Tract II

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax
Parcel 4-4-62.2 and bounded substantially as follows:

North by lands of: Gray

East by lands of: McCartney

South by lands of: Taylor

West by lands of: Long

being all the property owned by Lessor or to which the Lessor may have any rights in
said Section/Lot/District or adjoining Sections/Lots/Districts, containing
Zero and One Hundred Ninety Six Thousandths (0.196) acres, more or less, and
being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the
Marshall County office of the Clerk.

Tract III

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax
Parcel 4-4-62.3 and bounded substantially as follows:

North by lands of: Gray

East by lands of: Stout

South by lands of: Kolacinski

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in
said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and One
Hundred Ninety Six Thousandths (0.196) acres, more or less, and being the property
described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County
office of the Clerk.

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Office of Oil & Gas
08/28/2015

08/28/2015

Tract IV

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.4 and bounded substantially as follows:

North by lands of: Kolacinski

East by lands of: Gouldsberry

South by lands of: Woods

West by lands of: Woods

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Forty Four and Four Hundred Ninety Thousandths (44.490) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

Tract V

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.5 and bounded substantially as follows:

North by lands of: Kolacinski

East by lands of: Stout

South by lands of: Taylor

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and Three Hundred Sixteen Thousandths(0.316) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

Tract VI

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.6 and bounded substantially as follows:

North by lands of: Jenkins

East by lands of: Jenkins

South by lands of: Jenkins

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and Six Hundred Ninety Six Thousandths (0.696) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

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Tract VII

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.7 and bounded substantially as follows:

North by lands of: Jenkins

East by lands of: Jenkins

South by lands of: Goldbaugh

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and Four Hundred Eighty Nine Thousandths (0.489) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

Tract VIII

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.8 and bounded substantially as follows:

North by lands of: Jenkins

East by lands of: Stout

South by lands of: Gray

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and Seven Hundred Eight Thousandths(0.708) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

Tract IX

Situated in Clay District, Marshall County, West Virginia, and further identified as Tax Parcel 4-4-62.9 and bounded substantially as follows:

North by lands of: Goldbaugh

East by lands of: Jenkins

South by lands of: Gray

West by lands of: Kolacinski

being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing Zero and Three Hundred Ninety Three Thousandths (0.393) acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

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JUN 03 2015

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Tract X

Situated in Washington District, Marshall County, West Virginia, and further identified as Tax Parcel 14-12-62 and bounded substantially as follows:

North by lands of: Jenkins

East by lands of: McCartney

South by lands of: Allen

West by lands of: Taylor


being all the property owned by Lessor or to which the Lessor may have any rights in said Section/Lot/District or adjoining Sections/Lots/Districts, containing **Zero and Seven Hundred Fifty Thousandths (0.750)** acres, more or less, and being the property described in Deed/Record Volume 295; WB 33, Page 78; 337 of the Marshall County office of the Clerk.

For the purpose of this agreement containing a total of **Sixty Nine and One Hundred Seventy Thousandths(69.170)** acres, more or less.

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Lessor:



Ann E. Andreatos

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JUN 03 2015

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BOOK 024 PAGE 466

AB RESOURCES LLC
6802 W SNOWVILLE RD SUITE E
BRECKSVILLE OH 44141

ASSIGNMENT OF OIL AND GAS LEASES

This Assignment of Oil and Gas Leases (the "Assignment") is from AB RESOURCES LLC and NPAR, LLC, both of which are Delaware limited liability companies, and whose addresses are 6802 W. Snowville Road, Suite E, Brecksville, Ohio 44141 (collectively referred to as "Assignor") to CHIEF EXPLORATION & DEVELOPMENT LLC, a Texas limited liability company, whose address is 5956 Sherry Lane, Suite 1500, Dallas, Texas, and RADLER 2000 LIMITED PARTNERSHIP, a Texas limited partnership, whose address is 3131 W. Seventh Street, Suite 400, Fort Worth, Texas 76107 (referred to jointly as "Assignee").

For adequate consideration the receipt of which is acknowledged, Assignor, subject to the terms and provisions herein contained as well as the reservations herein after set forth, does hereby grant, sell, assign and convey unto Assignee, its successors and assigns, an undivided fifty percent (50%) working interest in, to and under the Oil and Gas Leases identified on Exhibit "A" attached to and made a part hereof covering the lands described on Exhibit "A".

For purposes of this Assignment (a) the Oil and Gas Leases described on Exhibit "A" are referred to as the "Leases", (b) the lands covered by the Leases are referred to as the "Lands", and (c) the undivided fifty percent (50%) working interest in, to and under the Leases and the Lands assigned and conveyed by Assignor to Assignee pursuant to this Assignment hereinafter collectively are referred to as the "Assigned Interests".

This Assignment is made expressly subject to the following:

1. The Assigned Interests will be subject to (i) the royalty interest as provided in the Leases and any recorded assignment of the Leases to Assignor, and (ii) all of the terms, conditions and provisions set forth in the Leases and/or such assignment of the Leases to Assignor.
2. The Assigned Interests will be subject to that certain Operating Agreement (the "Agreement") that was part of and associated with that certain Participation Agreement dated November 29, 2007 between AB Resources LLC and Chief Exploration & Development LLC, the Participation Agreement having since terminated. All the terms and provisions of the Agreement are fully incorporated herein by reference.
3. Assignor warrants the title to the Assigned Interests unto Assignee, its successors and assigns, against all adverse claims arising by, through and under Assignor, but not otherwise. EXCEPT AS PROVIDED IN THE PRECEDING SENTENCE AND EXCEPT AS PROVIDED IN THE UNRECORDED AGREEMENT, THIS ASSIGNMENT IS WITHOUT WARRANTY, EXPRESS, IMPLIED, OR STATUTORY, WHATSOEVER.

Jan Pest
MARSHALL County 12:40:32 PM
Instrument No 1306862
Date Recorded 06/27/2011
Document Type ASN
Pages Recorded 24
Book-Page 24-466
Recording Fee \$24.00
Additional \$8.00

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4. The Assigned Interests herein are assigned and conveyed to and are owned by Assignees in the following undivided proportions:

Chief Exploration & Development LLC	80%
Radler 2000 Limited Partnership	20%

5. Save and except the Assigned Interests, all other rights, titles and interests owned by Assignor in, to and under the Leases and the Lands are expressly reserved by Assignor and are not herein conveyed or assigned to Assignee.

The terms, covenants and conditions hereof shall be binding upon and shall inure to the benefit of Assignor and Assignee and their respective successors and assigns; and such terms, covenants and conditions shall be covenants running with the Assigned Interests, and with each subsequent transfer or assignment thereof.

This Assignment is executed by Assignor on the date indicated in its acknowledgment included herewith.

AB RESOURCES LLC, ASSIGNOR

AB
LEGAL
CKS 6-16-11

By: [Signature]
Gordon O. Yonel
Its: Chief Executive Officer

MAK

NPAR, LLC, ASSIGNOR

AB
LEGAL
CKS 6-16-11

By: [Signature]
Gordon O. Yonel
Its: Chief Executive Officer

MAK

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JUN 03 2015

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ASSIGNEES

CHIEF EXPLORATION & DEVELOPMENT LLC

RADLER 2000 LIMITED PARTNERSHIP

By: [Signature]
Glynda Childers
Its: Senior Vice President - Land

By: [Signature]
Michael G. Radler
Its: President of Tug Hill, Inc.
General Partner of
Radler 2000 Limited Partnership

ACKNOWLEDGMENTS

State of Ohio)
) ss:
County of Cuyahoga)

On this 16th day of June 2011, personally appeared Gordon O. Yonel, Chief Executive Officer of AB Resources LLC, to me personally known, who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited liability company.

WITNESS MY HAND AND SEAL this 16th day of June 2011.

My Commission Expires:

11.9.13

Patricia A. Gill
Notary Public



PATRICIA A. GILL
NOTARY PUBLIC
STATE OF OHIO
STARK COUNTY
My Comm. Expires
November 9, 2013

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JUN 03 2015

BOOK 024 PAGE 469

State of Ohio)
) ss:
County of Cuyahoga)

On this 16th day of June 2011, personally appeared Gordon O. Yonel, Chief Executive Officer of NPAR, LLC, to me personally known, who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited liability company.

WITNESS MY HAND AND SEAL this 16th day of June 2011.



PATRICIA A. GILL
NOTARY PUBLIC
STATE OF OHIO
STARK COUNTY
My Comm. Expires
November 9, 2013

Patricia A. Gill
Notary Public

State of Texas)
) ss:
County of Dallas)

On this 22nd day of June 2011, personally appeared Glynnne Mildren, the Sr. VP-Land of Chief Exploration & Development LLC, to me personally known, who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited liability company.

WITNESS MY HAND AND SEAL this 22nd day of June 2011.



Marie S. Veit
Notary Public

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State of Texas)
County of Dallas) ss:

On this 24th day of June 2011, personally appeared Michael G. Radler the General Partner of Radler 2000 Limited Partnership, to me personally known, who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited partnership.

WITNESS MY HAND AND SEAL this 24th day of June 2011.

My Commission Expires:



Marie G. Veit
Notary Public

PREPARED BY:
AB RESOURCES LLC

AFTER RECORDING RETURN TO:

AB RESOURCES LLC
6802 W. Snowville Rd., Suite E
Brecksville, OH 44141
PH 440.922.1250

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Office of Oil & Gas
JUN 03 2015



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

May 29, 2015

RE: Woods 4H, 6H, 8H, 12H

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,

A handwritten signature in black ink that reads "Phillip Khoury". The signature is written in a cursive style with a large, sweeping flourish at the end.

Phillip Khoury
Land Representative

Received
Office of Oil & Gas

08/28/2015

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

Date of Notice Certification: 5/7/15

API No. 47- _____
Operator's Well No. ^{6H} _____
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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>525070.85</u>
County: <u>Marshall</u>		Northing: <u>4415483.01</u>
District: <u>Clay</u>	Public Road Access: <u>CR 17 Fork Ridge Road</u>	
Quadrangle: <u>Moundsville, WV 7.5'</u>	Generally used farm name: <u>Woods</u>	
Watershed: <u>Middle Grave Creek - Grave Creek</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
--	---

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 a return receipt of personal service, the return receipt card or other postal receipt for certified mailing.

Received
Office of Oil & Gas

JUN 03 2015

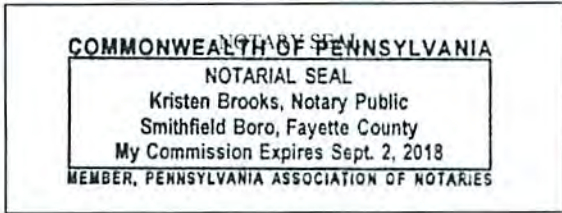
08/28/2015

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
By: Jenny Hayes
Its: Permitting Team Lead
Telephone: 724-564-3781

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3894
Email: _____



Subscribed and sworn before me this 7th day of May, 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 deprivacyofficer@wv.gov.

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Office of Oil & Gas
JUN 03 2015

WW-6A
(9-13)

4705101851
API NO. 47- -
OPERATOR WELL NO. 6H
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: 4/27/15 Date Permit Application Filed: 6/1/15

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.

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 Ferk 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: _____

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*Please attach additional forms if necessary

08/28/2015

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. 6H
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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JUN 13 2013

WW-6A
(8-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. 6H
Well Pad Name: Woods

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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Office of Oil & Gas
JUN 08 2015

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.**

08/28/2015

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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JUN 03 2015

WW-6A
(8-13)

4705101851

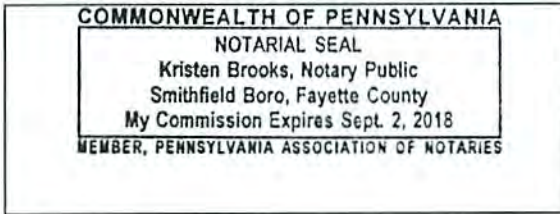
API NO. 47- _____ - _____
OPERATOR WELL NO. 6H
Well Pad Name: Woods

Notice is hereby given by: Jenny Hayes
Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email: _____

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3894

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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 17th day of April, 2015.
Kristen Brooks Notary Public
My Commission Expires Sept 2, 2018.

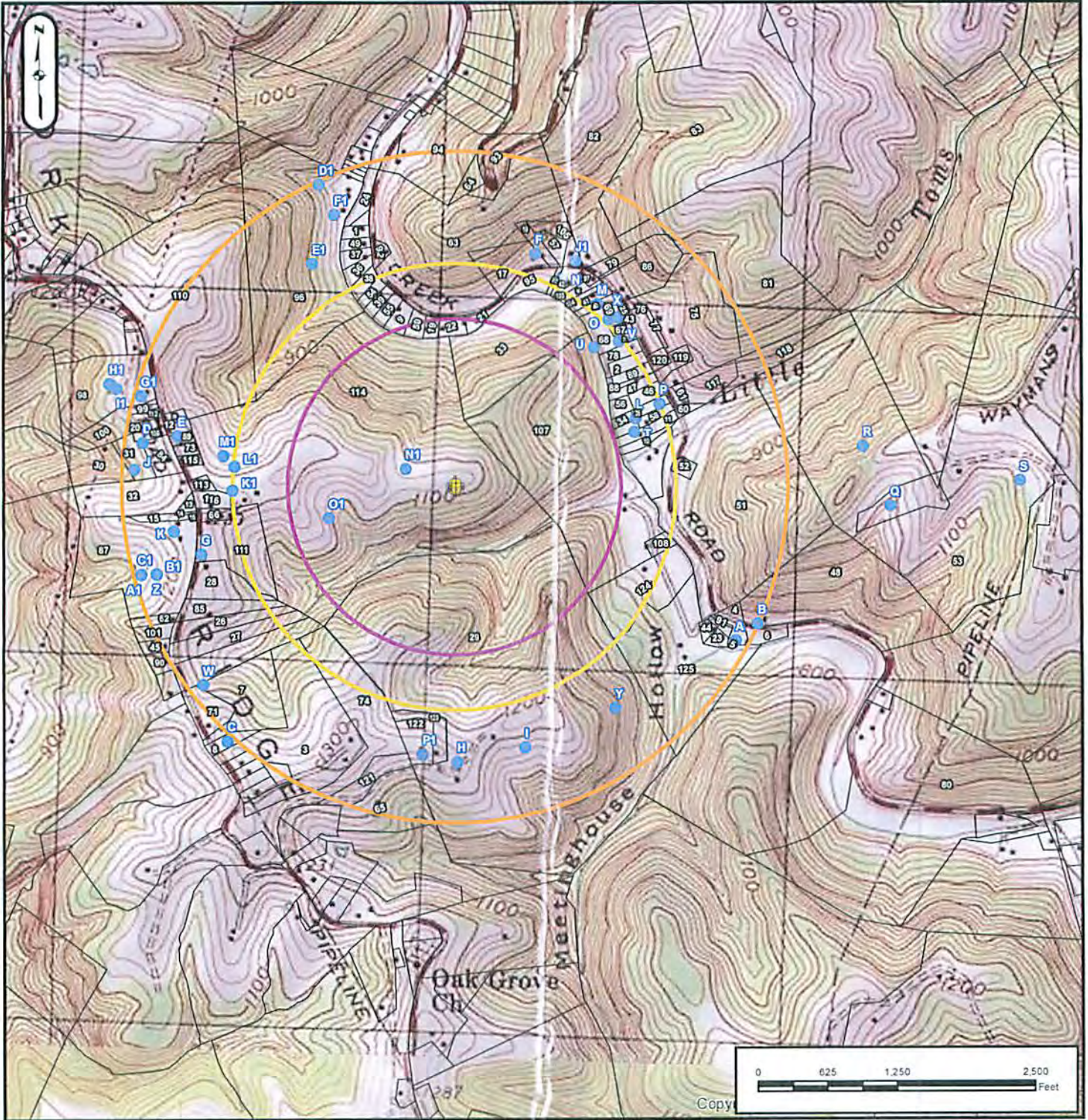
Received
Office of Oil & Gas
JUN 03 2015

08/28/2015

WATER SUPPLY EXHIBIT
WOODS



Date: 4/30/2015



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	ADDRESS: 10125 MASON DIXON HIGHWAY
SMITHFIELD, PA 15478	BURTON, WV 26032
PHONE: 724-564-3700	PHONE: 304-662-6486

Received
Crest Oil & Gas
JUN 03 2015

08/28/2015

WATER SUPPLY EXHIBIT WOODS

Date: 4/24/2015



#	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	4-4-55	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	4-4-43	EDDY, RICKY L. & HELEN L.
31	4-4-43	EDDY, RICKY L. & HELEN L.
32	4-4-51	EDDY, RICKY 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.
43	14-13-37	HEATH, SHARON & WILKERSON, FREDERICK W. MIDDLE GRAVE CREEK CHURCH OF GOD

#	TAX MAP #	NAME (last name first)
44	14-13-27	HELMS, WILLIAM D. SR. & DONNA C.
45	4-4-53.3	HESS, PAUL BRADLEY
46	14-13-43	JASBNEC, JEREMY J.
47	14-13-1	JASBNEC, 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, EUGENIE 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	MCGARY, 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 WALKERSON, 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	ONEL, CAROL S.
76	14-12-35.2	ONEL, CAROL S. & WARREN W.
77	14-12-35.5	ONEL, CAROL S. & WARREN W.
78	14-13-1.3	OSTRANDER, RACHEL
79	14-12-37.1	OTT, RODNEY, L.
80	14-13-20	PARROTT, 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

#	TAX MAP #	NAME (last name first)
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	STANDFORD, 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, REITA 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	WOJCIOWICZ, JULIA 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 REITA WAYNE
111	4-4-53	WOODS, HAZEL J. ESTATE - CONTACT REITA 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.

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



Date: 4/24/2015

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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 JUN 23 2015

08/28/2015

WATER SUPPLY EXHIBIT WOODS

Date: 4/24/2015



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	2438	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

08/28/2015

WATER SUPPLY EXHIBIT WOODS



Date: 4/24/2015

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

08/28/2015

4705101851

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 5211

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: 4-3-24

SURFACE OWNER(s)
Name: Roger D. & Katherine A. Parker
Address: 405 Brentwood Ave.
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° 54' 21.16" W80° 43' 47.53"
County: Marshall Public Road Access: Big Grave Creek Rd. (CR 54)
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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

08/28/2015

4705101851

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 5327

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: 4-3-37

SURFACE OWNER(s)
Name: Daniel E. Knox
Address: 1557 Fork Ridge 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° 54' 04.97" W80° 43' 15.37"
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: _____

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received
Office of Oil & Gas

JUN 03 2015

08/28/2015

4705101851

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 5334

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: 4-3-38

SURFACE OWNER(s)
Name: Shawn B. & Kimberly J. Mayle
Address: 501 Wheeling Ave.
Glendale, WV 26038
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° 54' 03.51" W80° 43' 17.19"
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: _____

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received
Office of Oil & Gas
JUN 03 2015

08/28/2015

4705101851

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 5341

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: 4-3-39

SURFACE OWNER(s) Name: James & Karen Hindman Address: RR 3 Box 31
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° 54' 02.31" W80° 43' 20.73"
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: _____

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 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
Office of Oil & Gas

JUN 03 2015

08/28/2015

4705101851

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 6133

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: 4-3-23.2

SURFACE OWNER(s)
Name: Charles & Deborah Ratliff
Address: 1229 Fork Ridge 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° 54' 25.31" W80° 43' 47.27"
County: Marshall Public Road Access: Big Grave Creek Rd. (CR 54)
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
Office of Oil & Gas
JUN 03 2015

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08/28/2015

4705101851

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 6140

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: 4-3-33.1

SURFACE OWNER(s) Name: Larry R. & Joan P. Truex Address: RD 3 Box 26 Moundsville, WV 26041
 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° 54' 18.54" W80° 43' 19.60"
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
Email: Mr. Stefan Keplinger Facsimile: _____

Received
Office of Oil & Gas

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08/28/2015

4705101851

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 5198

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: 4-3-22

SURFACE OWNER(s)
Name: Ethel L. & Michael Richmond
Address: RR 5 Box 28
Moundsville, WV 26041
Name: _____
Address: _____
Name: _____
Address: _____

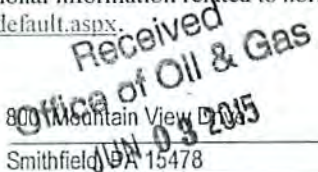
COAL OWNER OR LESSEE
Name: _____
Address: _____
 MINERAL OWNER(s)
Name: _____
Address: _____
*please attach additional forms if necessary

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° 54' 14.49" W80° 43' 36.68"
County: Marshall Public Road Access: Big Grave Creek Rd. (CR 54)
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, VA 15478
Mr. Stefan Keplinger
Email: _____ Facsimile: _____



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08/28/2015

4705101851

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 5204

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: 4-3-23

SURFACE OWNER(s)
Name: Roger A. & Nancy L. Holliday
Address: 458 Big Grave Creek 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° 54' 18.78" W80° 43' 42.59"
County: Marshall Public Road Access: Big Grave Creek Rd. (CR 54)
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
Telephone: 724-564-3809
Mr. Stefan Keplinger
Email: _____

Address: 800 Mountain View Drive
Smithfield, PA 15885
Facsimile: _____

Received
Office of Oil & Gas
JUN 03 2015

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

08/28/2015

4705101851

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 6744

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: 4-4-61.1

SURFACE OWNER(s)
Name: Hazel J. Woods
Address: 103 Elm Ave
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' 36.76" W80° 42' 55.63"
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
Telephone: 724-564-3809
Mr. Stefan Keplinger
Email: _____

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

Oil and Gas Privacy Notice:

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Received
Office of Oil & Gas
JUN 03 2015

**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 5365

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: 4-3-42

SURFACE OWNER(s)
Name: Norma Jean Bradford
Address: RR 3 Box 32
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' 12.77" W80° 43' 11.28"
Public Road Access: Fork Ridge Rd. (CR 17)
Watershed: _____ Creek / Middle Grave Creek
Generally used farm name: _____

**Received
Office of Oil & Gas**

JUN 03 2015

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:

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4705101851

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

RECEIVED
Office of Oil & Gas
JUN 03 2015

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: <u>Chevron Appalachia, LLC</u>	Address: <u>800 Mountain View Drive</u>
Telephone: <u>724-564-3809</u>	<u>Smithfield, PA 15478</u>
<u>Mr. Stefan Keplinger</u>	
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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

08/28/2015

4705101851

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 5365

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: 4-3-41

SURFACE OWNER(s)
Name: Norma Jean Bradford
Address: RR 3 Box 32
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° 54' 05.82" W80° 43' 02.74"
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: _____

Oil and Gas Privacy Notice:
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08/28/2015

4705101851

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 5273

- 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: 4-3-31

SURFACE OWNER(s)
 Name: Charles H. & Debbie Ann Ratliff
 Address: 1229 Fork Ridge 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: <u>WV</u>	Approx. Latitude & Longitude: <u>N39° 54' 21.84" W80° 43' 27.74"</u>
County: <u>Marshall</u>	Public Road Access: <u>Fork Ridge Rd. (CR 17)</u>
District: <u>Clay</u>	Watershed: <u>Grave Creek / Middle Grave Creek</u>
Quadrangle: <u>USGS 7.5' Moundsville, WV</u>	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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08/28/2015

4705101851

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 5815

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: 4-3-1.1

SURFACE OWNER(s)
Name: Consolidation Coal Co.
Address: 1001 Lafayette Ave
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° 54' 27.01" W80° 43' 38.01"
County: Marshall Public Road Access: Big Grave Creek Rd. (CR 54)
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
Telephone: 724-564-3809
Mr. Stefan Keplinger
Email: _____

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

Received
Office of Oil & Gas
JUN 03 2015

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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 6836

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: 4-4-62.4

 SURFACE OWNER(s)Name: James W. & Kelly R. TaylorAddress: 7 Isner CtMoundsville, 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: WVApprox. Latitude & Longitude: N39° 53' 40.96" W80° 42' 44.52"County: MarshallPublic Road Access: Middle Grave Creek Rd. (CR 34)District: ClayWatershed: Grave Creek / Middle Grave CreekQuadrangle: 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.

Received
Office of Oil & Gas

Notice is hereby given by:Well Operator: Chevron Appalachia, LLCAddress: 800 Mountain View DriveTelephone: 724-564-3809Smithfield, PA 15478

Mr. Stefan Keplinger

Email: _____

Facsimile: _____

JUN 03 2015

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08/28/2015

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: 4/27/15 Date Permit Application Filed: 6/1/15

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 ✓ Name: _____
Address: 2588 Fork Ridge Road Address: _____
Moundsville, WV 26041

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: West Virginia UTM NAD 83 Easting: 525070.85
County: Marshall Northing: 4415483.01
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

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.

Received
Office of Oil & Gas
JUN 03 2015

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

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: _____	525070.85
County: _____	Marshall	UTM NAD 83 Northing: _____	4415483.01
District: _____	Clay	Public Road Access: _____	CR 17 Fork Ridge Road
Quadrangle: _____	Moundsville, WV 7.5'	Generally used well name: _____	Woods
Watershed: _____	Middle Grave Creek - Grave Creek		

Office of Oil & Gas
JUN 03 2015

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

- *Please check the box that applies
- SURFACE OWNER
 - SURFACE OWNER (Road and/or Other Disturbance)
 - SURFACE OWNER (Impoundments/Pits)
 - COAL OWNER OR LESSEE
 - COAL OPERATOR
 - WATER PURVEYOR
 - OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: Richard W. Woods
Print Name: RICHARD W. WOODS
Date: 05-06-15

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

Oil and Gas Privacy Notice:

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



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

May 6, 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 4H Woods A Unit 6H Woods A Unit 8H Woods A Unit 12H

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

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

Received
Office of Oil & Gas
JUN 03 2015

08/28/2015

4705101851

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	Hydrochloric Acid	7647-01-0	8	0.00923732%	
15% Acid	Schlumberger	Perf Cleanup	Hydrochloric 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, ethoxylated #1	Proprietary	30	0.00003160%	
L058	Schlumberger	Iron Stabilizer	Sodium 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 ethylenediaminetetraacetate	64-02-8	60	0.00077862%	
			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	107-21-1	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 & Gas

JUN 03 2015



NOT ALL UTILITIES ARE SHOWN

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

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

WOODS W SITE DESIGN, EROSION CONTROL, AND SITE R

FORK RIDGE RO
MARSHALL CO

PREPARED

CHEVRON APPA

800 MOUNTAIN V
SMITHFIELD,



UNT TO MIDDLE
GRAVE CREEK
(TIER 1)

SITE LOCATION
USGS 7.5' TOPOGRAPHIC
MOUNDSVILLE,



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
- OPENENDED WETLAND
- TEST PIT
- SOIL CLASSIFICATION
- SOIL BOUNDARY
- UTILITY POLE
- BUILDING / POLE TO BE REMOVED

08/28/2015

WELL SITE & SEDIMENTATION RESTORATION PLANS

AD (CR 17)
COUNTY, WV

OR:
APPALACHIA, LLC
VIEW DRIVE
A 15478



MAP
QUADRANGLE MAP
W 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
 - REPRAP APRON
 - CAVERT
 - SOIL CEMENT W/ GRAVEL SURFACE
 - COMPOST FILTER SOCK
 - SILT FENCE
 - SUPER SILT FENCE
 - STOCKPILE AREA
 - PERMANENT COLLECTION CHANNEL
 - TEMPORARY COLLECTION CHANNEL
 - TEMPORARY DIVERSION CHANNEL
 - ROCK CONSTRUCTION ENTRANCE
 - GRAVEL SURFACE

4/25/15

SHEET NO.	SHEET TITLE	INCLUDED
CS 000	COVER SHEET	<input checked="" type="checkbox"/>
ES 050	EXISTING TOPOGRAPHIC PLAN	<input checked="" type="checkbox"/>
ES 060	EXISTING TOPOGRAPHIC PLAN	<input checked="" type="checkbox"/>
ES 070	EXISTING TOPOGRAPHIC PLAN	<input checked="" type="checkbox"/>
ES 100	OVERALL PLAN	<input checked="" type="checkbox"/>
ES 101	EROSION AND SEDIMENT CONTROL PLANS	<input checked="" type="checkbox"/>
ES 102	EROSION AND SEDIMENT CONTROL PLANS	<input checked="" type="checkbox"/>
ES 103	EROSION AND SEDIMENT CONTROL PLANS	<input checked="" type="checkbox"/>
ES 104	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 105	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 106	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 107	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 108	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 109	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 110	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 111	CROSS SECTION PLAN A & B	<input checked="" type="checkbox"/>
ES 112	CROSS SECTION PLAN C & D	<input checked="" type="checkbox"/>
ES 113	ACCESS ROAD PLAN & PROFILE	<input checked="" type="checkbox"/>
ES 114	ACCESS ROAD PLAN & PROFILE	<input checked="" type="checkbox"/>
ES 115	ACCESS ROAD CROSS SECTIONS	<input checked="" type="checkbox"/>
PC 600	SITE RESTORATION PLAN	<input checked="" type="checkbox"/>
PC 601	SITE RESTORATION PLAN	<input checked="" type="checkbox"/>
PC 602	SITE RESTORATION PLAN	<input checked="" type="checkbox"/>
PC 603	SITE RESTORATION PLAN DETAILS	<input checked="" type="checkbox"/>
PC 604	SITE RESTORATION PLAN DETAILS	<input checked="" type="checkbox"/>

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.

PROJECT AREA: 14.3 ACRES
DISTURBED AREA: 14.3 ACRES
CLEARING AREA: 1.6 ACRES

Received
Office of Oil & Gas
JUN 03 2015

4705101851

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

REVISION RECORD	
No	Date
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: 04-13-2015
Drawn By: CDB
Checked By: JWR
Project Manager: MJC

CS 000
08/28/2015



NOT ALL UTILITIES ARE SHOWN

THE LOCATION OF ALL UTILITIES SHOWN OR BELIEVED TO BE LOCATED ON THESE DRAWINGS ARE APPROXIMATE & SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CALL BEFORE YOU DIG! WEST VIRGINIA LAW ENFORCES AT LEAST 3 BUSINESS DAYS NOTICE FOR CONSTRUCTION PLANS AND TO ADDRESS ALL PROVISIONS OF THE WEST VIRGINIA CODE CALL SYSTEM NO. 800.441.8111 OR WEST VIRGINIA OR 800.441.8111



WOODS WELL SITE SITE DESIGN, EROSION & SEDIMENTATION CONTROL, AND SITE RESTORATION PLANS

FORK RIDGE ROAD (CR 17)
MARSHALL COUNTY, WV

PREPARED FOR:

CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

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: W080.706092

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
RECEIVING 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



SITE LOCATION MAP
USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP
MOUNDSVILLE, WV 1997



EXISTING		PROPOSED	
---	MAJOR CONTOUR (10 INTERVAL)	---	MAJOR CONTOUR (10 INTERVAL)
- - - -	MINOR CONTOUR (2 INTERVAL)	---	MINOR CONTOUR (2 INTERVAL)
---	PROPERTY LINE	---	RESIDUE STUDY AREA
---	RIGHT-OF-WAY	---	LINE OF DISTURBANCE
---	EASEMENT	---	CLEARING LIMIT
---	EDGE OF ROADWAY	---	ACCESS ROAD
---	FENCE LINE	---	WELL PAD/TANK PAD
---	ELECTRICITY LINE	---	ROCK CHECK DAM
---	TELEPHONE LINE	---	WREAP ANCHOR
---	GAS LINE	---	GLUYERT
---	WELLHEAD	---	WELL CEMENT W/ GRAVEL SURFACE
---	TREE/BUSH LINE	---	EMPOST FILTER SOCK
---	STREAM	---	NET FENCE
---	DELMARATED WETLAND AREA	---	SUPER SALT FENCE
---	CORRECTIONED WETLAND	---	STOCKPILE AREA
---	TEST PIT	---	PERMANENT COLLECTION CHANNEL
---	SOIL CLASSIFICATION	---	TEMPORARY COLLECTION CHANNEL
---	SOIL BOUNDARY	---	TEMPORARY DIVERSION CHANNEL
---	UTILITY POLE	---	ROCK CONSTRUCTION ENTRANCE
---	BLANK (POINTS TO BE REMOVED)	---	GRAVEL SURFACE

SHEET NO.	SHEET TITLE	INCLUDED
CS 000	COVER SHEET	☑
ES 000	EXISTING TOPOGRAPHIC PLAN	☑
ES 003	EXISTING TOPOGRAPHIC PLAN	☑
ES 010	EXISTING TOPOGRAPHIC PLAN	☑
ES 020	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 PLAN	☑
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	☑
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ES 198	EROSION AND SEDIMENT CONTROL DETAILS	☑
ES 199	EROSION AND SEDIMENT CONTROL DETAILS	☑
ES 200	EROSION AND SEDIMENT CONTROL DETAILS	☑
ES 201	EROSION AND SEDIMENT CONTROL DETAILS	☑
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