



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, June 1, 2018
WELL WORK PERMIT
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HICKS U13H
47-051-02003-00-00

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

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

James A. Martin
Chief

Operator's Well Number: HICKS U13H
Farm Name: THOMAS E. HICKS
U.S. WELL NUMBER: 47-051-02003-00-00
Horizontal 6A New Drill
Date Issued: 6/1/2018

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

PERMIT CONDITIONS

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



west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street SE, Charleston, WV 25304
304-926-0499 Ext 1274

Barry K. Lay, Chairman
dep.wv.gov

May 1, 2018

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-02003

COMPANY: Chevron Appalachia, LLC

FARM: Chevron Appalachia, LLC Hicks U13H

COUNTY: Marshall DISTRICT: Clay QUAD: Glen Easton

The deep well review of the application for the above company is **Approved to drill to Point Pleasant for completion.**

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Comments to Notice of Deviation filed? No.
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: none
4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

A handwritten signature in blue ink that reads "Susan Rose".

Susan Rose
Administrator

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 Glen Easton 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: U13H Well Pad Name: Hicks

3) Farm Name/Surface Owner: Thomas E Hicks Public Road Access: Fork Ridge Rd/WW-17

4) Elevation, current ground: ~~1161.57~~ 11401 Elevation, proposed post-construction: 1140

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

6) Existing Pad: Yes or No Yes

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12/6/17

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
point Pleasant, 11,300, 120' thick, 0.89 psi/ft

8) Proposed Total Vertical Depth: 11,300

9) Formation at Total Vertical Depth: Point Pleasant

10) Proposed Total Measured Depth: 24,696

11) Proposed Horizontal Leg Length: 12,843

12) Approximate Fresh Water Strata Depths: 430'

13) Method to Determine Fresh Water Depths: 1' mile radius search around pad location

14) Approximate Saltwater Depths: 1147', 1751', 2112'

15) Approximate Coal Seam Depths: 398', 678'

16) Approximate Depth to Possible Void (coal mine, karst, other): None

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

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

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	X-42		60	60	CTS
Fresh Water	20	New	J-55	94	500	500	CTS
XXX Inter. 1	13-3/8	New	N-80Q	68	2,010	2,010	CTS
Intermediate 2	9-5/8	New	P-110-ICY	40	8,570	8,570	CTS
Production	5-1/2	New	P110-EC	23	24,696	24,696	CTS
Tubing							
Liners							

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TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30	36					
Fresh Water	20	26	.5	2,110	1911	Class A	1.2
XXX Inter. 1	13-3/8	17-1/2	.480	5,020	2768	Class A	1.29
Intermediate 2	9-5/8	12-1/4 & 12-3/8	.395	8,980	2768	Class A, G or H	1.27-1.45
Production	5-1/2	8-3/4 & 8-1/2	.415	16,510	9975	Class A, G or H	1.28-1.65
Tubing							
Liners							

PACKERS NA

Kind:				RECEIVED Office of Oil and Gas JAN 5 2018 WV Department of Environmental Protection
Sizes:				
Depths Set:				

[Handwritten signature]
12/6/17

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

Drill vertical depth to the Point Pleasant at an estimated total vertical depth of approximately 11,300 feet. Drill horizontal leg.

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

Slickwater completion with 200' stage length, 500,000 lbs/ft proppant, 400,000 gal of fresh water, pumped at 100 bpm and 11,500 max pressure.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 27.4

22) Area to be disturbed for well pad only, less access road (acres): 19.7

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/stop collar & collar & (1) per every 2 jt over coupling to surface; Intermediate #1 on shoe track w/stop collar & (1) per every 2 jts over coupling; Intermediate #2 (1) on shoe track w/stop collar & (1) per every 2 jts over coupling; Production String: (1) centralizer every jt in the lateral and curve & (1) every other joint from KOP to surface.

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

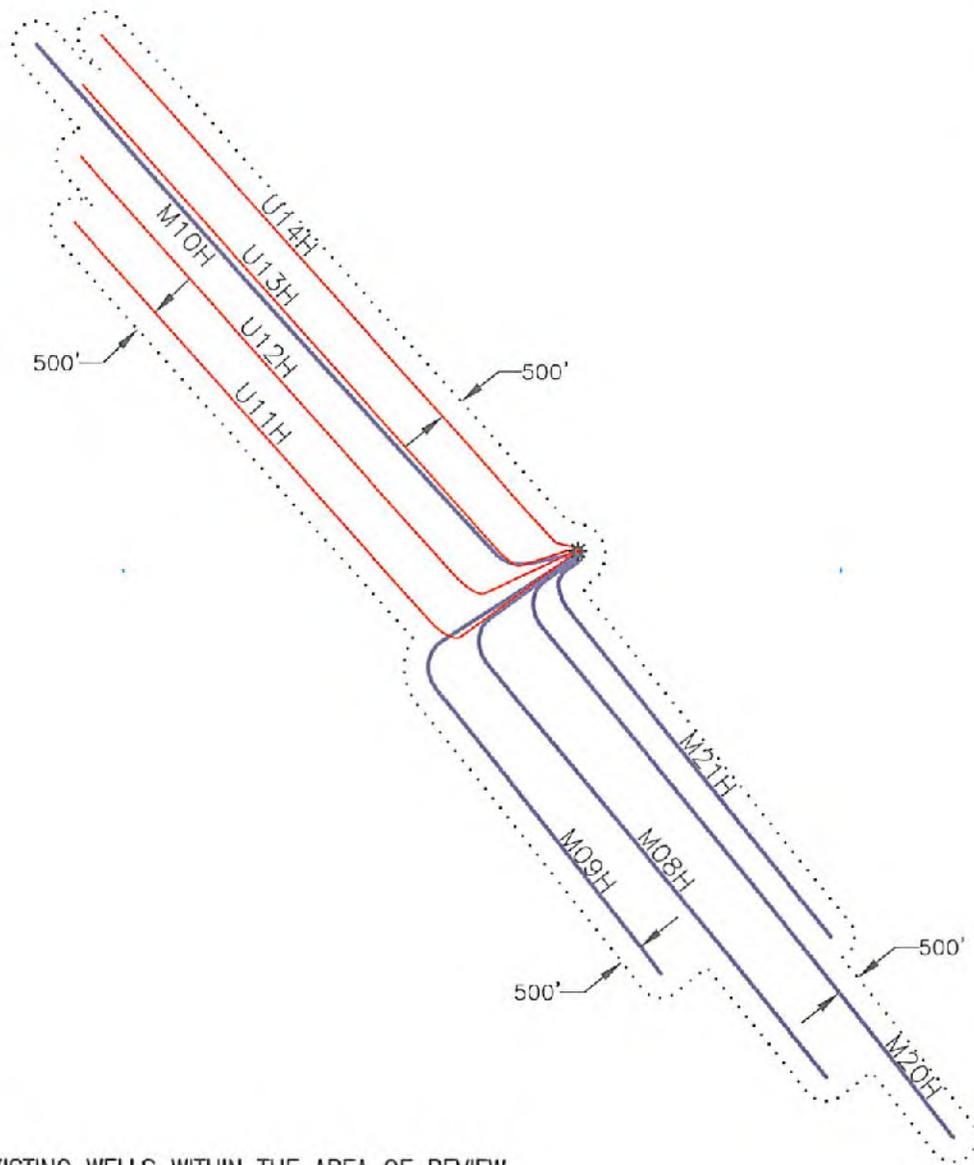
For the Water String the blend will contain Class A cement, 3% CaC12, and flake. The Intermediate 1 will contain Class A cement, 3% CaC12, Salt, and flake. The Intermediate 2 will contain Class A, G or H cement, 3% CaC12, Salt and flake. The Production cement will have a lead and tail cement. The Lead will contain Class A, G or H cement, KCl dispersant, suspension agent, and retarder. The Tail will contain Class A, G or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent and friction reducer.

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.



NOTE: NO EXISTING WELLS WITHIN THE AREA OF REVIEW.

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PREPARED FOR:
CHEVRON APPALACHIA, LLC
700 CHERRINGTON PARKWAY
CORAOPOLIS, PA 15108

LEGEND
☀ - WELL LOCATION
● - ACTIVE WELL

**HICKS BATCH 2
AREA OF REVIEW MAP
MARSHALL COUNTY
CLAY DISTRICT
WEST VIRGINIA**

TOPO QUAD: GLEN EASTON, WV
SCALE: 1" = 4000'
DATE: OCTOBER 2, 2017

Hicks Utica – Cement Additives

Attachment WW-6B

For the Water String the blend will contain Class A cement, 3% CaCl₂, and flake.

The intermediate 1 will contain Class A cement, 3% CaCl₂, salt and flake.

The intermediate 2 will contain Class A, G, or H cement, 3% CaCl₂, salt and flake.

The Production cement will have a lead and tail cement.

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

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

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06/01/2018

51-02003

Hicks U13H

Permit#						Ground Level Elev. (ft above SL):		1138		
Marshall County, WV						Depth Meas. f/ Air KB (ft above GL):		17 Highlands 14		
12/11/2017 6:30						Depth Meas. f/ Fluid KB (ft above GL):		25 Precision 560		
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	HOLE DEPTH (FT)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	FMC UH-S 13 5/8" (One-Piece) 10K	INC AZM				
Core Barrel / Auger		30" Conductor	-60	-			36		Conductor Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe jt w/ lock ring & (1) on every 2 jts	20" Casing	-500	-			26		Surface Casing 20" 94# J-55 BTC 0.5" Wall Coupling OD (in) 21.000 ID (in) 19.124 Drift ID (in) 18.937 Burst (psi) 2110 Collapse (psi) 520 Yield (Jt Strength 1,000 lbs) 1402 Capacity (bbl/ft) 0.3553	Cement to Surface
	Bow Spring: (1) on shoe jt w/ lock ring & (1) on every 2 jts	13-3/8" Casing	-2,010	-			17.50		Intermediate #1 String 13-3/8" 68# N 80Q BTC 0.480" Wall Coupling OD (in) 14.375 ID (in) 12.415 Drift ID (in) 12.250 Burst (psi) 5020 Collapse (psi) 2260 Yield (Jt Strength 1,000 lbs) 1556 Capacity (bbl/ft) 0.1497 OH Annulus (bbl/ft) 0.1237	Cement to Surface
	Bow Spring: (1) on shoe jt w/ lock ring & (1) on every 2 jts	9-5/8" Casing	-8,570	-			12.25 to 12.375		Intermediate #2 Casing 9-5/8" 40# P110-ICY BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.935 Drift ID (in) 8.679 Burst (psi) 8980 Collapse (psi) 4050 Yield (Jt Strength 1,000 lbs) 1432 Capacity (bbl/ft) 0.0758 OH Annulus (bbl/ft) 0.0558	Cement to Surface
	Bow Spring: (1) on every other jt from KOP to surface Solid Body: 1 per jt of casing from TD to KOP	5-1/2" Casing	-11,000	-			8.500 to 8.75		Production Casing 5-1/2" 23# P-110EC, VAM 21 HT 0.415" Wall Coupling OD (in) 6.156 ID (in) 4.670 Drift ID (in) 4.545 Burst (psi) 16510 Collapse (psi) 16220 Yield (Jt Strength 1,000 lbs) 829 Capacity (bbl/ft) 0.0212 OH Annulus (bbl/ft) 0.0408	Cement to Surface
		Marker Joint above KOP								
		Estimated KOP	-11000							
		Landing Point	-11900	-11300						
	Latch Collar 2 Jts of Cwg Float Equip.	5-1/2" Casing	-24605							
		5-1/2" Casing	-24696	-11300			8.500 to 8.75			

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06/01/2018



Chevron

**Appalachian LLC
WV Well Site Safety Plan**

Pad: Hicks Pad A

Well # U13H

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271 Arbor Lane

Moundsville, WV 26041

Clay District

Marshall County, WV

Access Point – [39.872100°N, 80.711825°W]

Well Site – [39.871558°N, 80.717794°W]

Marshall County, West Virginia

WW-9
(4/16)

API Number 47 - 51 - 02003
Operator's Well No. Hicks U13H

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 Glen Easton, 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 Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Baite, fluid loss, emulsifiers, rheological control

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

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

-Landfill or offsite name/permit number? Arden Landfill #100172; South Hills Landfill #100592; Short Creek Landfill #WW0109517

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Company Official Signature Jenny Hayes
Company Official (Typed Name) Jenny Hayes
Company Official Title Permitting Team Lead

Subscribed and sworn before me this 21st day of May, 2018 COMMONWEALTH OF PENNSYLVANIA
Laura Savage Notary Public COUNTY OF ALLEGHENY

My commission expires September 17, 2018

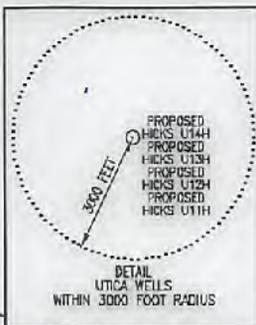
Commonwealth of Pennsylvania - Notary Seal
Laura Savage, Notary Public
Allegheny County
My commission expires September 17, 2018
Commission number 06/0172018
Member, Pennsylvania Association of Notaries

BHL is located on topo map 6,789 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 1,157 feet south of Latitude: 39° 52' 30"

SEE PAGE 2-8 FOR SURFACE OWNERS AND LESSORS



LINE	BEARING	DISTANCE
R1	N 53°13'17" E	145.29'
R2	N 24°02'54" E	94.16'
R3	N 26°08'43" W	105.82'
R4	N 14°55'08" W	1289.92'
R5	N 37°38'13" E	1068.35'
R6	S 44°01'56" E	2065.60'



WELL PAD ORIENTATION DETAIL				
U31H	U14H	M15H	U29H	U29H
M02H	U13H	M16H	U27H	U30H
M03H	U12H	M17H	U26H	U31H
M04H	U11H	M18H	U25H	U32H
M05H	U10H	M19H	U24H	U33H
M06H	M09H	N10H	U23H	U34H
M07H	M08H	M21H	U22H	U35H

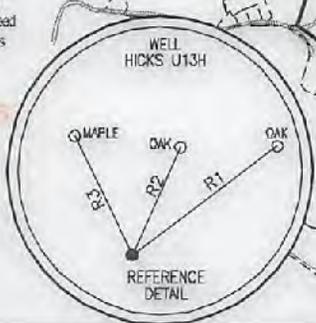
BHL is located on topo map 1,564 feet west of Longitude: 80° 45' 00"
 SHL is located on topo map 2,764 feet west of Longitude: 80° 42' 30"

LEGEND

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

- NOTES**
- There are no water wells or developed springs within 257' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent any and all 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.
 - There are no existing buildings within 625' of proposed well.

Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 862-6486



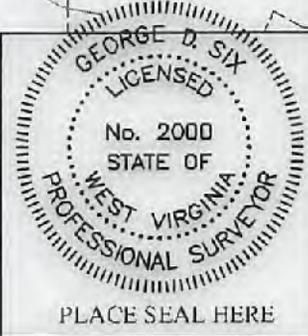
SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4413569.281
 E:524100.898
 NAD83, WV NORTH
 N:501981.837
 E:1626601.011

APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4413589.69
 E:523545.70
 NAD83, WV NORTH
 N:502079.256
 E:1624780.237

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4416468.05
 E:520895.05
 NAD83, WV NORTH
 N:511670.000
 E:1616240.000

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

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



FILE #: HICKS U13H
 DRAWING #: HICKS U13H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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



DATE: APRIL 24, 2018
 OPERATOR'S WELL #: HICKS U13H
 API WELL #: 47 51 02003 REV H6A
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1161.57'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: THOMAS E. HICKS ACREAGE: 172.100±

OIL & GAS ROYALTY OWNER: CHRISTA DAWN HICKS ET AL ACREAGE: 1212.766± **06/01/2018**

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

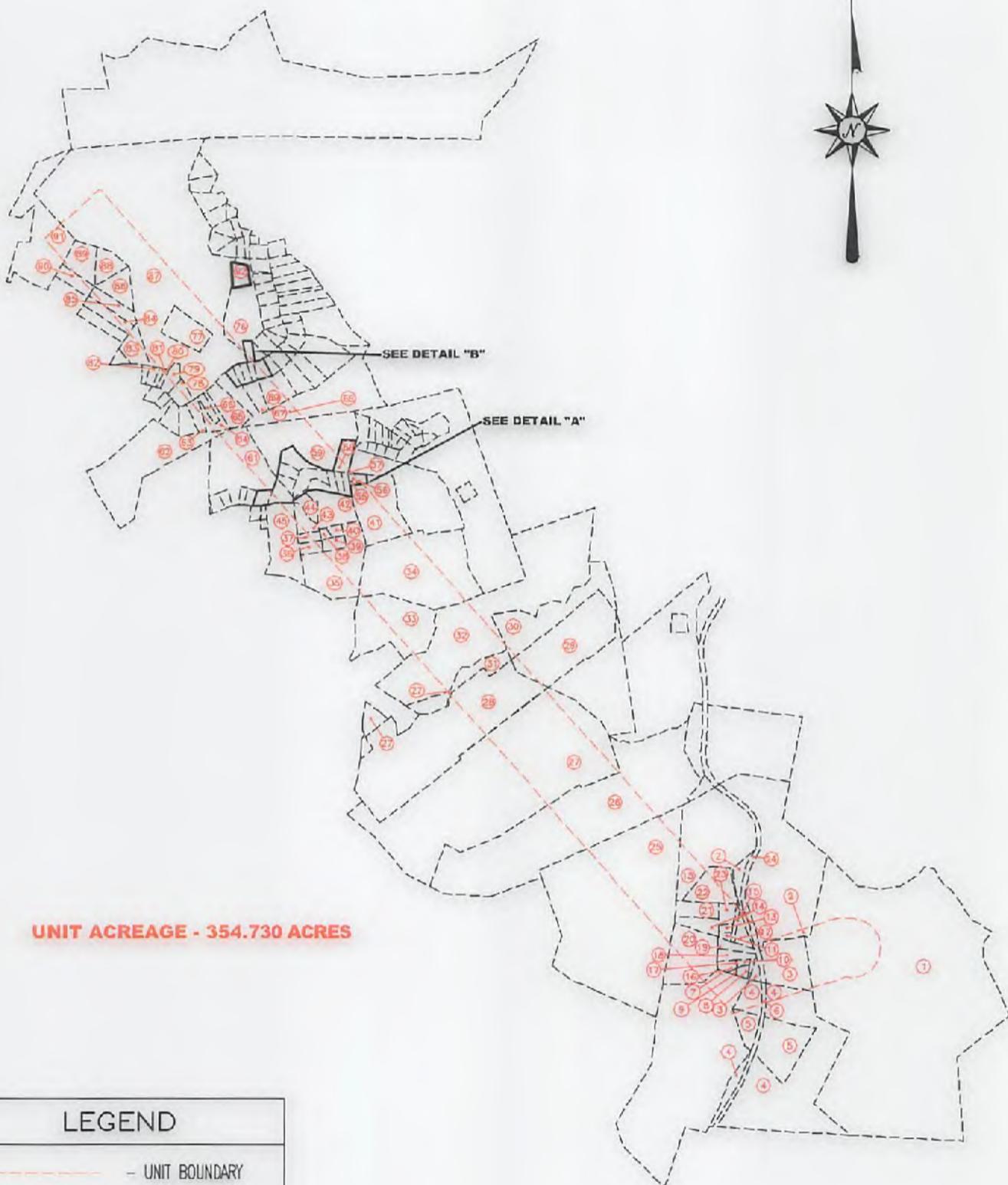
PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE

(SPECIFY): _____

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,300'± TMD: 24,695.62'±

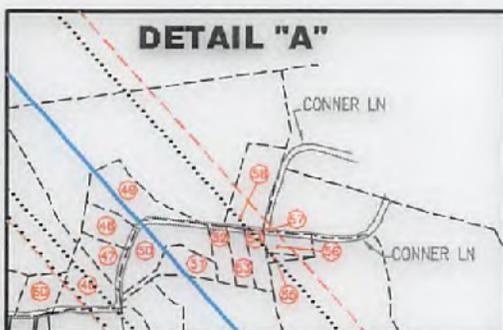
WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 700 CHERRINGTON PARKWAY Address 500 LEE STREET, EAST SUITE 1600
 City CORAOPOLIS State PA Zip Code 15108 City CHARLESTON State WV Zip Code 25301-3202

HICKS U13H PAGE 2 OF 8



UNIT ACREAGE - 354.730 ACRES

LEGEND	
	- UNIT BOUNDARY
	- PARCEL LINES



51-02003 H&A
06/01/2018



SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413589.281 E:524100.898	UTM 17-NAD83(M) N:4413589.69 E:523545.70	UTM 17-NAD83(M) N:4416488.05 E:520895.05
NAD83, WV NORTH N:501981.837 E:1626601.011	NAD83, WV NORTH N:502079.256 E:1624780.237	NAD83, WV NORTH N:511670.000 E:1616240.000

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

APRIL 24, 2018

HICKS U13H PAGE 3 OF 8

	SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
1	THOMAS E. HICKS	CHRISTA DAWN HICKS ET AL	4-8/37
2	RONALD ELWOOD STERN ET UX	CHESAPEAKE APPALACHIA, L.L.C.	4-8/35
3	VICKIE L. & SIDNEY P. POND	SIDNEY P. POND ET UX	4-8/36.1
4	LILLIE LAVERN GAREY	LILLIE LAVERN GAREY	4-8/38
5	SIDNEY P. POND ET UX	NOT IN UNIT	4-8/36.2
6	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	CNX GAS COMPANY LLC	4-12/25
7	MABEL JUANITA WILLIAMS	MABEL J. WILLIAMS	4-8/23
8	SIDNEY P. & VICKIE L. POND	SIDNEY P. & VICKIE L. POND	4/8-25.1
9	RALPH L. CLAYTON ET UX	RALPH L. CLAYTON ET UX	4-8/25
10	SIDNEY P. & VICKIE L. POND	SIDNEY P. & VICKIE L. POND	4-8/26
11	VAL ANDREW WINER ET UX	JAMES A. LOGWOOD	4-8/29.2
		JONATHAN P. LOGWOOD	
		TINA BARINGER	
		DONALD HENDERSON	
		CARMEN SWARTZ	
		TIMOTHY A. LOGWOOD	
		VERONICA E. REEVES	
		JOSEPH M. LOGWOOD	
		GARY R. LOGWOOD ET UX	
		JOHN H. MCCLENDON	
		DIANA M. PAYTON ET VIR	
		RONALD S. MCCLENDON	
		REMY P. MCCLENDON	
		JAMES E. PRESLUICKA	
		VERONICA E. RICE	
		CHARLES A. LOGWOOD ET UX	
		CYNTHIA J. SIMPSON	
		PHYLIS M. MACK ET VIR	
		ANNETTE G. SPEAR	
		JUDITH DIANE HAMLIN	
		BRENDA F. BLANCHARD	
		GARY N. UNDERWOOD	
		LISA R. EARLEY	
		TERRI M. THOMAS	
		KATHY J. CRAWFORD ET VIR	
		TIMOTHY P. LOGWOOD	
		YOLANDA L. KOPASKY ET VIR	
		MICHAEL C. WEST	
		TAMARA WILLIAMS	
		TONI R. WATSON ET VIR	
		CHARLES R. SIMPSON ET UX	
		KIMBERLY S. WHITE	
		DELORES L. SMITH	
		BETHEL YVONNE WINSTON BY AIF EDWARD WINSTON	
		NICOLE L. JEFFRIES	
		CLYDE E. SIMPSON JR.	
		JEAN D. SIMPSON	
		THOMAS W. JOHNSON	
		SHEILA J. ROBINSON ET VIR	
		MARCIA K. GADD ET VIR	
		TERRI YOUNG	
		MAURICETTA JETER	
		KENT WEST	
		ROSLYN E. LETT-RENTY ET VIR	
		SUE ANN STRAUGHTER	
		PRISCILLA ANN CHAMBERS	
		RICHARD HENDERSON	
		VAL ANDREW WINER ET UX	
		LINDA CHANDLER	
		RICHARD E. LITMAN ET UX	
		ALGEA RENEE HAMLIN	
		CHRISTOPHER L. LOGWOOD	
		KEVIN D. LAMBERT	
		GINGER LEE RUSH AIF PATRICIA ANN SMITH	
		CONSTANCE DANAE BETTS	
		JEREMIE BETTS	
		ALLEN HENDERSON	
		JOANN BETTS	
		EDITH P. FRENZLEY	
		CONSTANCE J. BELT	
		ROBERT LETT	
		SHELLY R. LOGWOOD	
		SHERRY A. SMITH	
		RICHARD E. LITMAN ET UX	
12	VAL ANDREW WINER SR.	CHESAPEAKE APPALACHIA, L.L.C.	4-8/35.2
13	RICHARD E. LITMAN JR. ET UX	JAMES A. LOGWOOD	4-8/29.1
		JONATHAN P. LOGWOOD	
		TINA BARINGER	
		DONALD HENDERSON	
		CARMEN SWARTZ	
		TIMOTHY A. LOGWOOD	
		VERONICA E. REEVES	
		JOSEPH M. LOGWOOD	

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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413589.281 E:524100.898	UTM 17-NAD83(M) N:4413589.89 E:523545.70	UTM 17-NAD83(M) N:4416468.05 E:520895.05
NAD83, WV NORTH N:501981.837 E:1626601.011	NAD83, WV NORTH N:502079.256 E:1624780.237	NAD83, WV NORTH N:511670.000 E:1616240.000

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SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
13 CONTINUED	GARY R. LOGWOOD ET UX	
	JOHN H. MCCLENDON	
	DIANA M. PAYTON ET VIR	
	RONALD S. MCCLENDON	
	REMY P. MCCLENDON	
	JAMES E. PRESLICKA	
	VERONICA E. RICE	
	CHARLES A. LOGWOOD ET UX	
	CYNTHIA J. SIMPSON	
	PHYLIS M. MACK ET VIR	
	ANNETTE G. SPEAR	
	JUDITH DIANE HAMLIN	
	BRENDA F. BLANCHARD	
	GARY N. UNDERWOOD	
	LISA R. EARLEY	
	TERRI M. THOMAS	
	KATHY J. CRAWFORD ET VIR	
	TIMOTHY P. LOGWOOD	
	YOLANDA L. KOPASKY ET VIR	
	MICHAEL C. WEST	
	TAMARA WILLIAMS	
	TONI R. WATSON ET VIR	
	CHARLES R. SIMPSON ET UX	
	KIMBERLY S. WHITE	
	DELORES L. SMITH	
	BETHEL YVONNE WINSTON BY AIF EDWARD WINSTON	
	NICOLE L. JEFFRIES	
	CLYDE E. SIMPSON JR.	
	JEAN D. SIMPSON	
	THOMAS W. JOHNSON	
	SHEILA J. ROBINSON ET VIR	
	MARCIA K. GADD ET VIR	
	TERRI YOUNG	
	MAURICETTA JETER	
	KENT WEST	
	ROSLYN E. LETT-RENTY ET VIR	
	SUE ANN STRAUGHTER	
	PRISCILLA ANN CHAMBERS	
	RICHARD HENDERSON	
	VAL ANDREW WINER ET UX	
	LINDA CHANDLER	
RICHARD E. LITMAN ET UX		
ALGEA RENEE HAMLIN		
CHRISTOPHER L. LOGWOOD		
KEVIN D. LAMBERT		
GINGER LEE RUSH AIF PATRICIA ANN SMITH		
CONSTANCE DANAE BETTS		
JEREMIE BETTS		
ALLEN HENDERSON		
JOAN BETTS		
EDITH P. FRENZLEY		
CONSTANCE J. BELT		
ROBERT LEFT		
SHELLY R. LOGWOOD		
SHERRY A. SMITH		
RICHARD E. LITMAN ET UX		
14 RICHARD E. LITMAN JR.	JAMES A. LOGWOOD	4-B/29
	JONATHAN P. LOGWOOD	
	TINA BARINGER	
	DONALD HENDERSON	
	CARMEN SWARTZ	
	TIMOTHY A. LOGWOOD	
	VERONICA E. REEVES	
	JOSEPH M. LOGWOOD	
	GARY R. LOGWOOD ET UX	
	JOHN H. MCCLENDON	
	DIANA M. PAYTON ET VIR	
	RONALD S. MCCLENDON	
	REMY P. MCCLENDON	
	JAMES E. PRESLICKA	
	VERONICA E. RICE	
	CHARLES A. LOGWOOD ET UX	
	CYNTHIA J. SIMPSON	
	PHYLIS M. MACK ET VIR	
	ANNETTE G. SPEAR	
	JUDITH DIANE HAMLIN	
	BRENDA F. BLANCHARD	
	GARY N. UNDERWOOD	
	LISA R. EARLEY	
	TERRI M. THOMAS	
	KATHY J. CRAWFORD ET VIR	
	TIMOTHY P. LOGWOOD	
	YOLANDA L. KOPASKY ET VIR	

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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413589.261 E:524100.898	UTM 17-NAD83(M) N:4413589.69 E:523545.70	UTM 17-NAD83(M) N:4416468.05 E:520895.05
NAD83, WV NORTH N:501981.837 E:1626601.011	NAD83, WV NORTH N:502079.256 E:1624780.237	NAD83, WV NORTH N:511670.000 E:1616240.000

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	SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
14	CONTINUED	MICHAEL C. WEST TAMARA WILLIAMS TONI R. WATSON ET VIR CHARLES R. SIMPSON ET UX KIMBERLY S. WHITE DELORES L. SMITH BETHEL YVONNE WINSTON BY AIF EDWARD WINSTON NICOLE L. JEFFRIES CLYDE E. SIMPSON JR. JEAN D. SIMPSON THOMAS W. JOHNSON SHEILA J. ROBINSON ET VIR MARCIA K. GADD ET VIR TERRI YOUNG MAURICETTA JETER KENT WEST ROSLYN E. LETT-RENTY ET VIR SUE ANN STRAUGHTER PRISCILLA ANN CHAMBERS RICHARD HENDERSON VAL ANDREW WINER ET UX LINDA CHANDLER RICHARD E. LITMAN ET UX ALGEA RENEE HAMLIN CHRISTOPHER L. LOGWOOD KEVIN D. LAMBERT GINGER LEE RUSH AIF PATRICIA ANN SMITH CONSTANCE DANAE BETTS JEREMIE BETTS ALLEN HENDERSON JOANN BETTS EDITH P. FRENZLEY CONSTANCE J. BELT ROBERT LETT SHELLY R. LOGWOOD SHERRY A. SMITH RICHARD E. LITMAN ET UX	
15	ROBERT L., JR. & PATSY ANN CLARK	CHESAPEAKE APPALACHIA, L.L.C.	4-8/35.1
16	RALPH L. CLAYTON ET UX	RALPH L. CLAYTON ET UX	4-8/26.1
17	RALPH & SARA L. CLAYTON	RALPH L. CLAYTON ET UX	4-8/26.2
18	KENNETH B. TAGG	KENNETH B. TAGG ET UX	4-8/27
19	WILLIAM K. & KAYLA M. KIDD	RICHARD P. WHITLATCH ET UX	4-8/28
20	RICHARD E. LITMAN JR.	RICHARD E. LITMAN ET UX	4-8/23.4
21	RICHARD E. LITMAN JR.	JAMES A. LOGWOOD JONATHAN P. LOGWOOD TINA BARINGER DONALD HENDERSON CARMEN SWARTZ TIMOTHY A. LOGWOOD VERONICA E. REEVES JOSEPH M. LOGWOOD GARY R. LOGWOOD ET UX JOHN H. MCCLENDON DIANA M. PAYTON ET VIR RONALD S. MCCLENDON REMY P. MCCLENDON JAMES E. PRESLICKA VERONICA E. RICE CHARLES A. LOGWOOD ET UX CYNTHIA J. SIMPSON PHYLIS M. MACK ET VIR ANNETTE G. SPEAR JUDITH DIANE HAMLIN BRENDA F. BLANCHARD GARY N. UNDERWOOD LISA R. EARLEY TERRI M. THOMAS KATHY J. CRAWFORD ET VIR TIMOTHY P. LOGWOOD YOLANDA L. KOPASKY ET VIR MICHAEL C. WEST TAMARA WILLIAMS TONI R. WATSON ET VIR CHARLES R. SIMPSON ET UX KIMBERLY S. WHITE DELORES L. SMITH BETHEL YVONNE WINSTON BY AIF EDWARD WINSTON NICOLE L. JEFFRIES CLYDE E. SIMPSON JR. JEAN D. SIMPSON THOMAS W. JOHNSON SHEILA J. ROBINSON ET VIR MARCIA K. GADD ET VIR	4-8/30

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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413569.281 E:524100.898	UTM 17-NAD83(M) N:4413589.69 E:523545.70	UTM 17-NAD83(M) N:4416468.05 E:520895.05
NAD83, WV NORTH N:501981.837 E:1626601.011	NAD83, WV NORTH N:502079.256 E:1624780.237	NAD83, WV NORTH N:511670.000 E:1616240.000

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SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
21 CONTINUED	TERRI YOUNG MAURICETTA JETER KENT WEST ROSLYN E. LETT-RENTY ET VIR SUE ANN STRAUGHTER PRISCILLA ANN CHAMBERS RICHARD HENDERSON VAL ANDREW WINER ET UX LINDA CHANDLER RICHARD E. LITMAN ET UX ALGEA RENEE HAMLIN CHRISTOPHER L. LOGWOOD KEVIN D. LAMBERT GINGER LEE RUSH AIF PATRICIA ANN SMITH CONSTANCE DANAE BETTS JEREMIE BETTS ALLEN HENDERSON JOANN BETTS EDITH P. FRENZLEY CONSTANCE J. BELT ROBERT LETT SHELLY R. LOGWOOD SHERRY A. SMITH RICHARD E. LITMAN ET UX	
22 BRIAN A. & MELISSA A. GUNN	DENVER O. THOMAS, ET UX	4-8/32
23 RICHARD E. LITMAN JR.	RICHARD E. LITMAN ET UX	4-8/31
24 CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	CNX GAS COMPANY LLC	4-8/39
25 HENRY W. & LINDA M. ASTON - LIFE	HENRY ASTON ET UX LEO GAMBLE BILLIE D. BRENNAN BARBARA RIGGLE NOREEN G. MILLER ET VIR ANNE LONG HAND ET VIR JOHN M. GAMBLE MARGARET M. VERRALL LARRY MCCULLOUGH MARK CARTER GAMBLE CHARLES PAUL GAMBLE ET UX CLARICE BURT DONALD CARMICHAEL JANE ANN DAY PEGGY FILLMORE BILLIE JO GARNER ARDITH HOLMES ELEANOR HOLMES GENE LAWSON HOLMES JANICE A. HOLMES MARY HOLMES MITCHELL R. HOLMES RONALD LEMOYNE HOLMES TIM HOLMES VIRGINIA HOLMES MYRNA LOUANN HOLSTINE LYLA LORRAINE HUBBS BONNIE LIBRIZZI MARY LOUISE LIPSKY KAREN V. MAAS VERA MARIE MIDCAP MAVARENE L. REDD EULA RICHARDS BY AIF CAROYLN THOMPSON HELEN M. RINE MARILYN LAVONDA RULONG VIOLET P. STANDIFORD CHRISTINE A. CIOCCIA SHIRLEY DULANEY WILLIAM EARNEST JANE ANN GAMBLE JULIA GAMBLE BY AIF MARY JO DOMBROWSKI HOWARD MCCARDLE JOAN MILLIKEN SHERWIN LEE RUCKMAN BOBBI JO STARK BELINDA S. WEST MARY ELLEN WHIPKEY ROBIN WILLIAMS LLOYD ELWOOD HOLMES	4-8/17
26 CHARLES W. JR., & JUDY MERCER	SANDRA KAY WARNER PATSY SUE BAYHA HALLIE LU PETERSON LUCRETIA LEE DELLA K. BOONE DENNIS PARSONS DR. CASPER E. CLINE CHARLOTTE L. STROMSLAND	4-8/16

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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413569.281 E:524100.898	UTM 17-NAD83(M) N:4413589.69 E:523545.70	UTM 17-NAD83(M) N:4416468.05 E:520895.05
NAD83, WV NORTH N:501981.837 E:1626601.011	NAD83, WV NORTH N:502079.256 E:1624780.237	NAD83, WV NORTH N:511670.000 E:1616240.000

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	SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
27	MARY E. PERSINGER & JANET C. HUNNELL ET AL	JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY A. ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA MARY E. PERSINGER JANET C. HUNNELL MICHAEL PERSINGER BETH BLAKE WILLIAM B. FOX LINDA SMITH ANN MILLER KAREN FOX EVANS	4-5/54.1
28	MARSHALL CO AIRPORT AUTHORITY	JOHN LEONARD FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY A. ARGENTA JOAN E. KRESS WILLIAM P. ARGENTA PAUL T. ARGENTA MARY E. PERSINGER JANET C. HUNNELL MICHAEL PERSINGER BETH BLAKE KAREN FOX EVANS BRAD FOX LINDA S. SMITH ANN MILLER	4-5/54.3
29	MARSHALL CO AIRPORT AUTHORITY	MARSHALL COUNTY AIRPORT AUTHORITY	4-4/2.1
30	MARSHALL CO AIRPORT AUTHORITY	MARSHALL COUNTY AIRPORT AUTHORITY	4-4/2
31	LENEE J. & SHARON L. CURITTI	LENEE CURITTI ET UX	4-5/54.6
32	LENEE J. CURITTI ET UX	JOHN L. FOX KAREN M. FOX CHRISTI F. PRESTON JOHN L. FOX II CYNTHIA S. HAMILTON DOROTHY A. ARGENTA MARY E. PERSINGER KAREN FOX EVANS BRAD FOX LINDA SMITH ANN MACHELE MILLER JANET C. HUNNELL MICHAEL PERSINGER BETH BLAKE WILLIAM P. ARGENTA PAUL T. ARGENTA JOAN E. KRESS	4-5/54.5
33	BRADLEY C. RINE	LINDSEY E. RACKLEY ERIC HATHAWAY ET UX ERINE HATHAWAY NANCY D. RACKLEY ET VIR KIMBERLY HATHAWAY GOBLE ET VIR GARY LEE HATHAWAY ET UX JUDITH KULL TRST DTD 7/31/1985 ELIZABETH G. KULL REV TRST DTD 10/21/1997 DOROTHY SEDOSKY GENE DAKAN ET UX DOLLYE GUZEK ET VIR	4-5/50.5
34	JAMES L. & KATHY L. DRAKE	JAMES L. DRAKE ET UX	4-5/46.2
35	ROGER W. GATTS ET UX	ROGER W. GATTS ET UX	4-5/50.2
36	TEDDY H. PARSONS ET UX	TEDDY PARSONS ET UX	4-5/49.3
37	TEDDY H. PARSONS ET UX	TEDDY PARSONS ET UX	4-5/49
38	TEDDY HOWARD PARSONS ET UX	TEDDY PARSONS ET UX	4-5/49.2
39	ROGER W. GATTS ET UX	ROGER W. GATTS ET UX	4-5/50.1
40	BETH ANN & MARK ALAN BAKER	MARK BAKER ET UX	4-5/49.1
41	MICHAEL W. THOMAS ET UX	MICHAEL W. THOMAS	4-5/46.3
42	SAMUEL D. ROBINSON	SAMUEL D. ROBINSON ET UX	4-5/47.1
43	ROBERT L. & JANIS R. MALSON	ROBERT MALSON ET UX	4-5/48
44	SAMUEL D. ROBINSON	SAMUEL D. ROBINSON ET UX	4-5/47
45	ELDWIN O. & MARY L. RINE	GLEN RICHARD WELLS MARY LOU CAMPBELL ET VIR KELLER DUDLEY WELLS JOHN WESLEY WELLS ET UX PHILLIP E. MINOR DAVID MICHAEL MINOR MILLARD MINOR ET UX	4-5/50.3

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SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413569.281 E:524100.898	UTM 17-NAD83(M) N:4413589.69 E:523545.70	UTM 17-NAD83(M) N:4416468.05 E:520895.05
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	SURFACE OWNER	OIL & GAS OWNER	DIST-TM/PAR
45	CONTINUED	KATHERINE CHAPPELL ET VIR DENIS J. MINOR CHRISTOPHER MINOR TIMOTHY MINOR SCOTT MINOR MARK MINOR JOHN MINOR GERALD MINOR ET UX EDWARD MINOR JAMES W. PURTIMAN ET UX CAROLE SCHMIDLIN ET VIR NANCY PURTIMAN ELIZABETH STAVISCHECK ELAINE MINOR LESLIE RINCON JOHN F. KREUTZER JR., ET UX DENISE KREUTZER MARY LOU CAMPBELL ET VIR JORDAN CHRISTOPHER MINOR	
46	JANET L. TASKER	GLEN RICHARD WELLS MARY LOU CAMPBELL ET VIR KELLER DUDLEY WELLS JOHN WESLEY WELLS ET UX PHILLIP E. MINOR DAVID MICHAEL MINOR MILLARD MINOR ET UX KATHERINE CHAPPELL ET VIR DENIS J. MINOR CHRISTOPHER MINOR TIMOTHY MINOR SCOTT MINOR MARK MINOR JOHN MINOR GERALD MINOR ET UX EDWARD MINOR JAMES W. PURTIMAN ET UX CAROLE SCHMIDLIN ET UX NANCY PURTIMAN ELIZABETH STAVISCHECK ELAINE MINOR LESLIE RINCON JOHN F. KREUTZER JR., ET UX DENISE KREUTZER MARY LOU CAMPBELL ET VIR JORDAN CHRISTOPHER MINOR	4-5/31
47	GLENN M. RINE ET UX	NANCY KNIGHT	4-5/31.1
48	KYE E. BAKER	NANCY KNIGHT	4-5/32.2
49	JOYCE L. RINE	NANCY KNIGHT	4-5/32
50	JOHN S. CONDIT	JOHN S. CONDIT	4-5/33.1
51	JOHN SHELDON CONDIT	JOHN S. CONDIT	4-5/33
52	MICHAEL A. WALKER	MICHAEL A. WALKER	4-5/33.3
53	MICHAEL A. WALKER	MICHAEL A. WALKER	4-5/33.2
54	DONNA L. MAINE	DONNA L. MAINE	4-5/33.4
55	ERIC M. & SAVANNAH L. ANDERSON	BRENT L. SHIPLEY ET UX	4-5/46.4
56	ERIC M. & SAVANNAH L. ANDERSON	BRENT L. SHIPLEY ET UX	4-5/46.1
57	LINDA LEOA MILLER	ROBERT C. MILLER ET UX	4-5/46
58	MATTHEW C. GRAY & HOLLY PORTER	MATTHEW W. GRAY ET UX	4-5/34
59	JOYCE L. RINE	PAUL RINE ET UX	4-5/32.1
60	KEVIN E. GROSE ET UX	KEVIN GROSE ET UX	4-5/30.1
61	JEREMY S. ADKINS	TOBI JO FAHNESTOCK MICHAEL JASON FAHNESTOCK JOHN ROGER FAHNESTOCK DONALD LEROY FAHNESTOCK ALISHA JO KENDRICK BOBBI JO STRICKLAND	4-5/30
62	LOREN F. CECIL ET UX - LIFE	LOREN CECIL ET AL	4-5/24
63	DAVID S. & LEAH J. ALLMAN	JERRY ALLMAN ET UX	4-2/52.11
64	DAVID S. & LEAH J. ALLMAN	JERRY ALLMAN ET UX	4-2/52.9
65	CLIFFORD R. CRAMER ET UX	CLIFFORD R. CRAMER ET UX	4-2/52.16
66	DAVID S. & LEAH J. ALLMAN	JERRY ALLMAN ET UX	4-2/52.3
67	GEORGE D. & LAURIE E. BUMGARDNER	GEORGE D. BUMGARDNER II ET UX	4-2/50.9
68	GREGORY SNIDER	GREGORY SNIDER	4-2/50.7
69	GARY IRWIN NELSON ET UX	GARY NELSON ET UX	4-2/50.4
70	GEORGE D. II & LAURIE BUMGARDNER	GEORGE D. BUMGARDNER II ET UX	4-2/52.18
71	GEORGE DONALD II & LAURIE ELLEN BUMGARDNER	GEORGE D. BUMGARDNER II ET UX	4-2/52.15
72	GEORGE DONALD BUMGARDNER II ET UX	GEORGE D. BUMGARDNER II ET UX	4-2/52.13
73	GEORGE DONALD BUMGARDNER II ET UX	GEORGE D. BUMGARDNER II ET UX	4-2/52.14
74	GARY I. NELSON ET UX	GARY NELSON ET UX	4-2/66
75	DEREK T. REED	DEREK T. REED	4-2/85
76	GREGORY K. WOOD	GREGORY K. WOOD ET UX	4-2/50
77	GREGORY K. & BONNIE J. WOOD	GREGORY K. WOOD ET UX	4-2/52.19
78	ALAN L. HOWARD ET UX	ALAN HOWARD ET UX	4-2/52.4
79	ERIC C. & JENNIFER L. MILLER	ERIC MILLER ET UX	4-2/52.17
80	RONNIE D. HOWE	RONNIE HOWE ET UX	4-2A/10
81	RONALD L. LANCH ET UX - LIFE	RONALD LANCH ET AL	4-2A/1
82	RONALD L. LANCH ET UX - LIFE	RONALD LANCH ET AL	4-2A/2
83	JEANIE HELLER	FRANKLIN HELLER	4-2/52.8
84	SHANE R. & JOY A. VAN SCYOC	SHANE R. VAN SCYOC ET UX	4-2/29.17
85	SHANE R. & JOY A. VAN SCYOC	SHANE R. VAN SCYOC ET UX	4-2/29.21
86	MICHAEL S. ULLOM & KIMBERLY A. NAMATH	MICHAEL S. ULLOM ET UX	4-2/29.16
87	GREGORY K. WOOD	GREGORY K. WOOD ET UX	4-2/52
88	MICHAEL S. & KIMBERLY A. ULLOM	DAVID A. KAYLOR ET UX	4-2/29.15
89	CHAD E. & ASHLEY R. LUCAS	CHADEA LUCAS ET UX	4-2/29.20
90	ROBERT G. & BETH A. THOMAS	DAVID M. ALLENDER	4-2/29.14
91	JULIE C. KLUG	MARY C. KLUG	4-2/38
92	BRENDA L. ESTEL & TIMOTHY E. TASKER	BRENDA L. ESTEL ET AL - NOT IN UNIT	4-2/50.8

51-0.2003 HkA
06/01/2018

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413569.281 E:524100.898	UTM 17-NAD83(M) N:4413589.69 E:523545.70	UTM 17-NAD83(M) N:4416468.05 E:520895.05
NAD83, WV NORTH N:501981.837 E:1826601.011	NAD83, WV NORTH N:502079.256 E:1624780.237	NAD83, WV NORTH N:511670.000 E:1616240.000

APRIL 24, 2018

WW-6A1
(5/13)

Operator's Well No. Hicks U13H

**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

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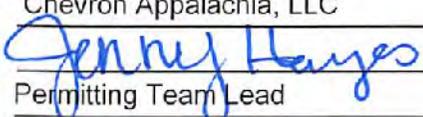
WV Department of
Environmental Protection

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

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

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

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

Well Operator: Chevron Appalachia, LLC
 By: 
 Its: Permitting Team Lead



4705102003

Madeline Fitzgerald
Land Representative

November 20, 2017

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

RE: Hicks 11H, 12H, 13H, 14H

To whom it may concern:

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

Sincerely,

Madeline Fitzgerald
Land Representative

Appalachian Mountain Business Unit
Chevron North America Exploration and Production Company
A Division of Chevron U.S.A. Inc.
700 Cherrington Parkway, Coraopolis, PA 15108
Tel 412 865 1584 Mobile 719 859 0110
MadelineFitzgerald@chevron.com

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06/01/2018

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

Date of Notice Certification: 11/28/17

API No. 47- _____
Operator's Well No. U13H
Well Pad Name: Hicks

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>524100,898</u>
County: <u>Marshall</u>	UTM NAD 83 Northing: <u>4413569.281</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WW-17</u>
Quadrangle: <u>Glen Easton, WV 7.5'</u>	Generally used farm name: <u>Hicks</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 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 type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

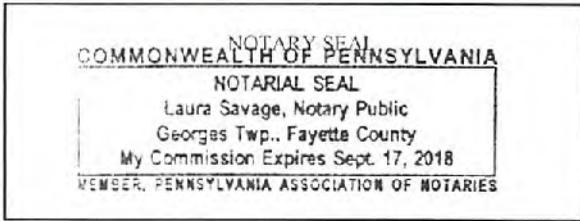
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Certification of Notice is hereby given:

THEREFORE, I 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: 412-865-1533

Address: 700 Cherrington Parkway
Coraopolis, PA 15108
Facsimile: 412-865-2403
Email: jzyk@chevron.com



Subscribed and sworn before me this 3rd day of January, 2018.

Laura Savage Notary Public

My Commission Expires September 17, 2018

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 11/28/2017 Date Permit Application Filed: 1/4/18

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: Thomas E. Hicks
Address: 353 Arbor Lane
Moundsville, WV 26041

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance) /
Name: Jeffrey Ryan
Address: 141 Clover Lane
Moundsville, WV 26041

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE /
Name: Consol Mining Company, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR
Name: Murray Energy
Address: 46228 National Road
St. Clairsville, OH 43950

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SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) WV Department of Environmental Protection
Name: see attached
Address: _____

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

*Please attach additional forms if necessary

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.depr.wv.gov/oil-and-gas/pages/default.aspx.

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Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

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 5th St. SE
Charleston, WV 25304
(304) 926-0450

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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.**

06/01/2018

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A
(8-13)

API NO. **4705102003**
OPERATOR WELL NO. U13H
Well Pad Name: Hicks

Notice is hereby given by:

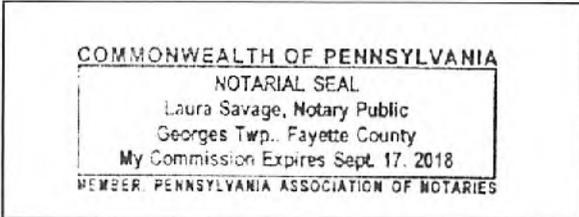
Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: jzyk@chevron.com

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

Jenny Hayes

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 28th day of November, 2017.

Laura Savage

Notary Public

My Commission Expires September 17, 2018

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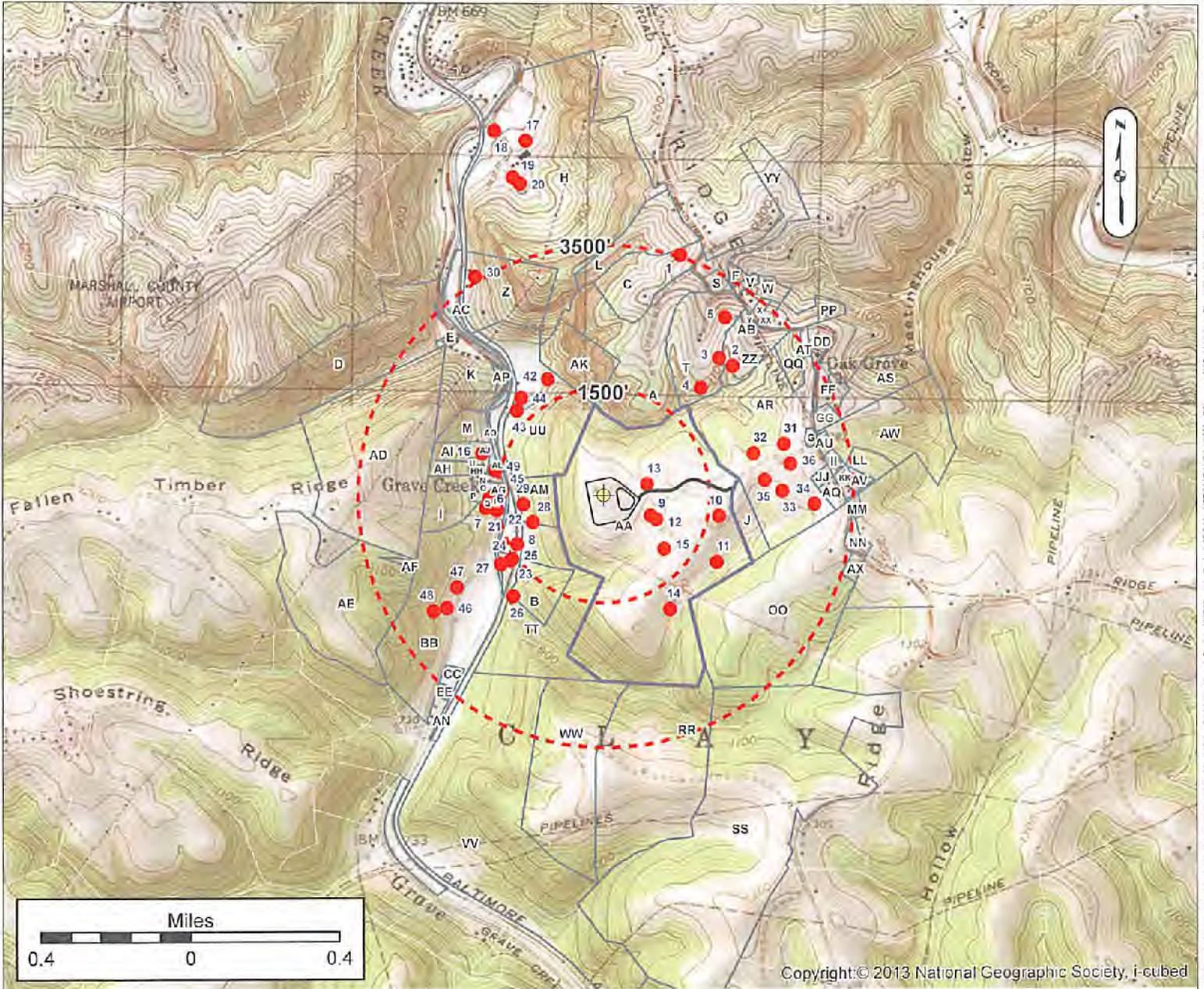
WV Department of
Environmental Protection

06/01/2018



WATER SUPPLY EXHIBIT HICKS PAD

4705102003
ESM



LOT OWNERS

Label	OWNER	TAX	Label	OWNER	TAX	Label	OWNER	TAX	Label	OWNER	TAX
A	SCHAEFFER BEATE B & CON	25-04 400400000000	CL	CLAYTON RALPH L ET UX	25-04 800150000000	CG	SCHULMAN SUZANNE E & SUZANNE E R	25-04 900000000000	WW	COSTE F EDWARD B ET WIFE S	25-04 10000000000000
B	POND SIDNEY P ET UX	25-04 800400000000	K	POND SIDNEY P & VICKI L	25-04 800150000000	III	WINTER VAL ANDREW W ET UX	25-04 800200000000	RR	FURRELL ROBERT W ET UX	25-04 40050000000000
C	ATKINS JASON B & TAWAN R	25-04 800350000000	S	RICHIE ADERST L ET AL	25-04 400500000000	I	LUSH ROGER W & BODY L	25-04 900000000000	VV	LEUJAHN W H ET UX	25-04 40050000000000
D	MENCER CHARLES W III & JUDY	25-04 800600000000	T	CHAMBERS MARVIN J ET UX	25-04 800180000000	H	HENRY MINNIE L - LIFE	25-04 800200000000	ZZ	PHIPPS HENRY W & MARY P	25-04 40070000000000
E	ELANK DASTY ANN	25-04 800100000000	U	LITMAN RICHARD E JR ET UX	25-04 800170000000	KK	STOFFET KATHA L & JAMES L	25-04 900000000000	AB	CARRETER DONALD J ET UX	25-04 40050000000000
F	LITTON HENRY HENRY ET UX	25-04 800700000000	V	DELO DAVIS E ET UX	25-04 400500000000	LL	SLIMON CAROL L WIFE ET UX	25-04 900000000000	AL	KENDRICK LUTHER COAL COMPANY	25-04 40070000000000
G	HICKS THOMAS E	25-04 800100000000	N	TRIPLETT JASMIN S & THOMAS	25-04 400500000000	MW	LYONS CHRISTINA S	25-04 900000000000	AD	ATTON HENRY W & INSMAR LIFE	25-04 80017000000000
H	MOUNTAINVIEW ENTERPRISES LLC	25-04 800600000000	X	SPERIN JAMES MARTIN ET UX	25-04 400500000000	NV	MULLER ROBERT D ET UX	25-04 900150000000	AT	EDNAR FANIE (S REVOCABLE TR)	25-04 80010000000000
I	LITMAN RICHARD E SR	25-04 800130000000	Y	CARPENTER DONALD T JR	25-04 800500000000	DD	BUEHMAN JAMES B ET UX	25-04 900100000000	GI	WILLIAMS MARIE BUNATA	25-04 80010000000000
J	HICKS LUCILLE B	25-04 800170000000	Z	REHMUND JAVEL ELIOWISE	25-04 800100000000	PP	FURRELL ROBERT V ET UX	25-04 400500000000	AG	POND SIDNEY P & VICKI E	25-04 80010000000000
K	MORRIS DONALD ET UX	25-04 800150000000	AA	HICKS THOMAS E	25-04 800100000000	DJ	MCCARY B JRY LAURIE ET AL LIFE	25-04 900000000000	AH	LITMAN RICHARD E SR	25-04 80010000000000
L	CONCEPT JOSEPH	25-04 800170000000	BB	WILLIAMS MADEIRA IVANITA	25-04 800130000000	PR	COSTE F EDWARD B ET WIFE S	25-04 10000000000000	AI	LITMAN RICHARD E SR	25-04 80010000000000
M	THOMAS DENVER O ET UX	25-04 800120000000	CC	MARTIN MORRIS J	25-04 800180000000	SS	WENCK QUE DELORIS O ET UX	25-04 10000000000000	AJ	LITMAN RICHARD E SR	25-04 80010000000000
N	WHEELER RICHARD E & JANNIE B	25-04 800200000000	DD	CAR GROVE MFC ONE INC	25-04 900000000000	TT	GARY L LEE LAURIN	25-04 800100000000	AK	SCHAEFFER ESTHER B & LOUI B	25-04 80010000000000
O	PAGE WYNATHA R	25-04 800120000000	EE	ALL MAN SUE ELIZABETH	25-04 800100000000	UU	STERN DONALD D WIDOW ET UX	25-04 800100000000	AL	LITMAN RICHARD E SR	25-04 80010000000000
P	CLAYTON RALPH L ET UX	25-04 800120000000	FF	HICKS THOMAS E & THOMAS M	25-04 900000000000	VV	MULLEN LEE CITY SR	25-04 80010000000000	AM	POND VICKI E & SIDNEY P	25-04 80010000000000

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

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

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

Attachment

API No. 47- _____

OPERATOR WELL NO. U13HWell Pad Name: Hicks

- COAL OWNER OR LESSEE**
Name: Christa Dawn Hicks
Address: 65 Clover Lane
Moundsville, WV 26041
- COAL OWNER OR LESSEE**
Name: Leslie Mae Hicks
Address: 1611 Skye Drive
Chapel Hill, NC 27516
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Lillie Lavern Garey (deceased, March 20, 2017)
c/o Vickie Pond (daughter)
Address: 119 Labrador Lane
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Vickie L. & Sidney P. Pond
Address: 119 Labrador Lane
Moundsville, WV 26041
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR**
Name: Kenneth B. Tagg
Address: 3303 Big Grave Creek Road
Moundsville, WV 26041

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06/01/2018

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

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

Date of Notice: 11/01/2017 **Date Permit Application Filed:** 1/4/18

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

CERTIFIED MAIL **HAND**
RETURN RECEIPT REQUESTED **DELIVERY**

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

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

Name: Thomas E. Hicks
Address: 353 Arbor Lane
Moundsville, WV 26041

Name: Jeffrey L. Ryan
Address: 141 Clover Lane
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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>524100.898</u>
County: <u>Marshall</u>		Northing: <u>4413569.281</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WV-17</u>	
Quadrangle: <u>Glen Easton, 7.5'</u>	Generally used farm name: <u>Hicks</u>	
Watershed: <u>Middle Grave Creek - Grave Creek</u>		

This Notice Shall Include:

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

Well Operator: Chevron Appalachia, LLC
Telephone: 412-865-1533
Email: jzyk@chevron.com

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

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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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524100.898</u>
County:	<u>Marshall</u>		Northing:	<u>4413569.281</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WW-17</u>	
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>	
Watershed:	<u>Middle Grave Creek-Grave Creek</u>			

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

*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: 
Print Name: Vickie L Pond
Date: 12-2-17

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

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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

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VOLUNTARY STATEMENT OF NO OBJECTION

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

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>524100.898</u>
County:	<u>Marshall</u>	UTM NAD 83 Northing:	<u>4413569.281</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WW-17</u>
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>
Watershed:	<u>Middle Grave Creek-Grave Creek</u>		

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

*Please check the box that applies

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

FOR EXECUTION BY A NATURAL PERSON

Signature: [Signature]
Print Name: Sidney P Pond/Vickiel
Date: 12-2-17

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

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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

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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, Kenneth B. Tagg, 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 12, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524100.898</u>
County:	<u>Marshall</u>		Northing:	<u>4413569.281</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WW-17</u>	
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>	
Watershed:	<u>Middle Grave Creek-Grave Creek</u>			

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

*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: Kenneth B. Tagg

Print Name: KENNETH B. TAGG

Date: 12-4-17

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____

By: _____

Its: _____

Signature: _____

Date: _____

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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

Jim Justice
Governor

Thomas J. Smith, P. E.
Secretary of Transportation/
Commissioner of Highways

November 16, 2017

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 Hicks Pad A Well Site, Marshall County
Hicks A U13H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2016-0504 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: Mandy Fordyce
Chevron Appalachia, LLC
CH, OM, D-6
File

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OIL AND GAS ROAD STATEWIDE BONDING AGREEMENT

THIS AGREEMENT, executed in duplicate, made and entered into this 19th day of January, 2012, by and between the **WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS**, hereinafter called "DEPARTMENT," and **CHEVRON APPALACHIA, LLC**, a Pennsylvania Limited Liability company, hereinafter called "COMPANY."

WITNESSETH:

WHEREAS, Company has horizontal gas well drilling operations in certain areas of West Virginia; and

WHEREAS, the Department believes that the frequent and repetitive use of certain sections of highways in the State by Company, its contractors, agents, independent contractors or suppliers of drilling materials or drilling equipment, and employees contributes to increased wear and tear to public roads in the state road system in the State, including local roads ("State Owned Roads"); and,

WHEREAS, the Department and Company have entered into this Agreement to satisfy the requirements of the Department's policy entitled "Oil & Gas Road Policy" dated February 1, 2011, as issued by Paul A. Mattox, Jr., Secretary of Transportation / Commissioner of Highways, and any subsequent related policies, hereinafter called "Policy", a copy of which is made a part of this Bonding Agreement and is identified as Attachment 1.

NOW, THEREFORE, for and in consideration of the mutual agreements hereinafter set forth, the parties agree as follows:

I. For purposes of this Bonding Agreement, "Project Transportation Usage" of the Company shall be understood to mean use of one or more State Owned Roads for the delivery and removal of drilling materials and drilling equipment at the site or location of one or more of Company's horizontal gas well pad locations. To the extent reasonably practical, prior to commencing use of a State Owned Road for Project Transportation Usage after January 1, 2011, the Company shall submit to the Department a section or sections of current official WVDOH County Highway maps identifying the exact location of the proposed project and the State Owned Roads that the Company will utilize for the Project Transportation Usage.

II. Company and Department shall within 14 days of the Company's submittal, agree to a list of these sections of State Owned Roads, hereinafter called "Project Roads List", to be utilized for each of Company's projects, identified by route number and milepost; at a time to be mutually agreed to by the parties prior to initial commencement of Project Transportation Usage of a particular State Owned Road on a Project Roads List, the Company and Department will jointly review the condition of the roads and bridges on the Project Roads List. The Department will document the road type and surface condition and general right-of-way width of each section of road on the Project Road List. Either party may supplement this documentation with photographs, video or other evidence of the present condition of the road surface, shoulders, and the structure or soundness of roads on the Project Road List.

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both parties prior to, during and after the operator has completed well fracturing..

IV. In the Project Agreement/Project Permit, the Department shall not require the use of State Owned Roads other than the roads proposed by Company unless the Department has safety concerns as to the Company's proposed roads. A failure to agree on roads that may otherwise be lawfully used for a particular Project Transportation Usage shall result in the designation of the State Owned Roads proposed by Company, with milepost determinations as designated by Department. This Agreement shall only cover portions of State Owned Roads designated on the Project Roads List.

V. For the duration of Company's Project Transportation Usage of the Stated Owned Roads on the Project Roads List, whether by the Company, its contractors (while working on behalf of Company), agents, independent contractors or suppliers of drilling materials or drilling equipment, or employees, the Company agrees to pay for all reasonable maintenance and repair costs incurred by the Department to repair areas of the State Owned Roads included in the Project Roads List that were directly damaged by Company's Project Transportation Usage, as determined to be reasonably necessary and appropriate by the Department. The Department shall keep a record of all labor performed by Department employees and contractors for such maintenance and repairs and shall send an invoice for the same to Company.

VI. Company shall be responsible for the cost of all maintenance and repairs reasonably necessary to put the existing roadways, bridges and appurtenances on the Project Roads List utilized for the Project Transportation Usage in the condition that existed immediately prior to the Project Transportation Usage. Company shall not be required to pay for maintenance or repairs to put any areas of such roadways, bridges and appurtenances on the Project Roads List in a condition better than the condition that existed immediately prior to the Project Transportation Usage. Company shall also not be required to pay for maintenance or repairs to any areas of these roadways, bridges or appurtenances on the Project Roads List that are not actually utilized for the Project Transportation Usage or for damage not caused by Project Transportation Usage.

VII. Company shall notify the Department in writing of Company's final completion of Project Transportation Usage for particular roadways, bridges and appurtenances on the Project Roads List. Within fourteen days after its receipt of written notification of the completion of the Project Transportation Usage for all roads on a Project Roads List, the Department will review the condition of the roadways, bridges and appurtenances on the Project Roads List actually utilized for the Project Transportation Usage and advise Company of any final repairs reasonably necessary to leave these roads, bridges and appurtenances in a condition reasonably deemed by Department to be equal to their condition prior to commencement of Project Transportation Usage; and, upon completion of all such final repairs by or on behalf of Company and acceptance by Department, the Company shall be released from all further liability for maintenance or repairs to roads, bridges, or appurtenances on said Project Roads List. Any maintenance or repair work under the Project Agreement/Project Permit for roads, bridges or appurtenances on the Project Roads List may be performed by a contractor directly chosen by the Company as approved by the Department, the Department's workforce, or a private contractor hired by the Department through the public bid process in accordance with state law, all of which work shall be subject to the standards and specifications of the Department.

VIII. In order to ensure performance of Company's performance and payment obligations under this Bonding Agreement, the Company shall post a corporate surety bond, hereinafter called "Master Bond", with the Department named as the beneficiary, which form of bond shall be subject to the consent of the Department. not to be unreasonably withheld. The

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IX. Company shall maintain Commercial General Liability Insurance in the amount of two million dollars, with a minimum coverage of one million dollars per occurrence, for personal injury or death to persons, or for property damage, resulting from Company's Project Transportation Usage and shall present evidence of such insurance to Department upon request.

X. Company's usage of State Owned Roads under the Project Agreement/Project Permit shall comply with all applicable Federal, State and local laws and regulations including, but not limited to, to the extent applicable, the National Environmental Policy Act, Section 404 of the Clean Water Act, Section 106 of the National Historic Preservation Act, Rare, Threatened and Endangered Species Act, Section 401 Water Quality Certification, and hazardous waste requirements. Further, upon reasonable written request of Department, Company shall furnish Department with acceptable documentation of such compliance which is in the possession of the Company.

XI. Company shall defend, indemnify and hold Department harmless from and against any and all losses, damage, and liability, and from all claims for damages on account of or by reason of bodily injury, including death, which may be sustained, or claimed to be sustained, by any person or persons, including employees of Department, and from and against any and all claims, losses or liabilities for damages to property, arising out of the negligent or willful acts or omissions of Company, its agents, independent contractors and suppliers of drilling materials or drilling equipment, employees and contractors, in the performance of all Project Transportation Usage activities undertaken pursuant to this Agreement (collectively, "claims"). The Company shall not be responsible to indemnify, defend or hold harmless Department for any claims caused by the negligent or willful acts or omissions of the Department or its agents, employees and contractors or third parties not performing work at the direction of Company or delivering drilling equipment or drilling materials, including water, for use by or for company.

XII. If a provision of this Agreement is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the validity or enforceability of any other provision of this Agreement; or the validity or enforceability in other jurisdictions of that or any other provision of this Agreement.

XIII. Department shall give Company a minimum of thirty days written notice of default under the terms of this Bonding Agreement and the opportunity to cure this default during such thirty-day period. If a default is not cured to the satisfaction of Department, or provision acceptable to Department is not made for a cure, Department may then elect to terminate this Bonding Agreement in whole or in part, and may in addition exercise its rights under the Master Bond or seek any other lawful relief available. Company may terminate this Bonding Agreement upon thirty days written notice to Department for any reason. In the event Company terminates this Agreement for any reason, it shall be liable for the repair and maintenance costs set forth above for prior Project Transportation Usage.

XIV. Nothing herein shall be construed to mean that Company shall have any jurisdiction or control over any public roads in the state road system.

XV. Company, its contractors, agents, employees and suppliers shall at all times be subject to applicable provisions of state and federal law, including without limitation laws requiring operation of vehicles in accordance with legal size and weight restrictions and weight limits. Oversize/overweight permits for vehicle or loads not otherwise conforming with law must be obtained in accordance with law: Department agrees to work in good faith with

RECEIVED
Office of Oil and Gas
JAN 5 2018
WV Department of
Environmental Protection

08/01/2018

IN WITNESS WHEREOF, the parties hereto have caused this Bonding Agreement to be executed by their duly authorized officers effective as of the date first above written.

WEST VIRGINIA DEPARTMENT OF
TRANSPORTATION,
DIVISION OF HIGHWAYS

Doreen Baria
Witness "Executive Secretary"

By: [Signature]
State Highway Engineer

CHEVRON APPALACHIA, LLC

[Signature]
Witness Michael A. Frazer
Supply Chain Manager

By: John F. Hammond
John F. Hammond
Title: Assistant Secretary

(To be executed in duplicate)

APPROVED AS TO FORM THIS
11th DAY OF Jan 20 12
[Signature]
ATTORNEY LEGAL DIVISION
WEST VIRGINIA DEPARTMENT
OF HIGHWAYS

~~WEST VIRGINIA DEPARTMENT
OF HIGHWAYS
ATTORNEY LEGAL DIVISION
JAN 5 2018
RECEIVED
West Virginia Oil and Gas
WV Department of
Environmental Protection~~
APPROVED AS TO FORM THIS
DAY OF 20



Know what's below
Call before you dig

HICKS WELL PAD

EROSION AND SEDIMENT CONTROL PLANS

FORK RIDGE ROAD (C.R. 17)
CLAY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA



PREPARED FOR:

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

CONSULTANTS

800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478
TEL: 724.335.1234
WWW.CHEVRONAPPALACHIA.COM

HICKS WELLS DISTURBED AREA (AC)	
TOTAL SITE	
ACCESS ROADS	7.7
WELL PAD	10.2
TOTAL AFFECTED AREA	17.9
TOTAL WOODED AREAS DISTURBED	8.1
IMPACTS TO DOWNSTREAM	
ACCESS ROADS	7.7
WELL PAD	0.0
TOTAL AFFECTED AREA	7.7
TOTAL WOODED AREAS DISTURBED	0.0
IMPACTS TO HICKS LOCAL EE	
ACCESS ROADS	0.1
WELL PAD	0.0
TOTAL AFFECTED AREA	0.1
TOTAL WOODED AREAS DISTURBED	0.0
IMPACTS TO HICKS TOWNSHIP	
ACCESS ROADS	5.2
WELL PAD	10.0
TOTAL AFFECTED AREA	15.2
TOTAL WOODED AREAS DISTURBED	0.1

STATE OF ARBOR LANE AT FORK RIDGE ROAD
LATITUDE: 38 8750 N LONGITUDE: 80 7941 W

START OF ACCESS ROAD AT ARBOR LANE
LATITUDE: 38 8721 N LONGITUDE: 80 7925 W

WELL PAD 101
LATITUDE: 38 8711 N LONGITUDE: 80 7920 W

WELL PAD 102
LATITUDE: 38 8721 N LONGITUDE: 80 7921 W

BRIDGE OVER BRIDGE OF VIRGINIA STATE PLANE NORTH ZONE
U.S. FOOT

WATERSHED NAME: WATERSHED PLAN: UPPER OHIO WATERSHED

PERKINS STREAM (SOUTH BRANCH) OF KANAWHA RIVER
DISTANCE TO NEAREST WATERSHED LINE: 0.75 MILES (1.21 KI)
NO ANTICIPATED WETLAND SUBJECT



SITE LOCATION MAP
USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP
MOUNDVILLE & GLEN EASTON, WV 1957

SYMBOL	DESCRIPTION	EXISTING	PROPOSED
1	TOP OF DIRT	---	---
2	TOP OF ROCK	---	---
3	TOP OF SAND	---	---
4	TOP OF CLAY	---	---
5	TOP OF SILT	---	---
6	TOP OF GRAVEL	---	---
7	TOP OF COBBLES	---	---
8	TOP OF Boulders	---	---
9	TOP OF BEDROCK	---	---
10	TOP OF WATER TABLE	---	---
11	TOP OF SAND	---	---
12	TOP OF CLAY	---	---
13	TOP OF SILT	---	---
14	TOP OF GRAVEL	---	---
15	TOP OF COBBLES	---	---
16	TOP OF BEDROCK	---	---
17	TOP OF WATER TABLE	---	---
18	TOP OF SAND	---	---
19	TOP OF CLAY	---	---
20	TOP OF SILT	---	---
21	TOP OF GRAVEL	---	---
22	TOP OF COBBLES	---	---
23	TOP OF BEDROCK	---	---
24	TOP OF WATER TABLE	---	---
25	TOP OF SAND	---	---

NO.	TITLE	SHEET NO.
05.000	COVER SHEET	
05.050	EXISTING TOPOGRAPHY PLAN	
05.100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	
05.101	EROSION AND SEDIMENT CONTROL PLAN	
05.102	EROSION AND SEDIMENT CONTROL PLAN	
05.103	EROSION AND SEDIMENT CONTROL PLAN	
05.104	EROSION AND SEDIMENT CONTROL PLAN	
05.105	EROSION AND SEDIMENT CONTROL PLAN	
05.106	EROSION AND SEDIMENT CONTROL PLAN	
05.107	EROSION AND SEDIMENT CONTROL PLAN	
05.108	EROSION AND SEDIMENT CONTROL PLAN	
05.109	EROSION AND SEDIMENT CONTROL PLAN	
05.110	EROSION AND SEDIMENT CONTROL PLAN	
05.111	EROSION AND SEDIMENT CONTROL PLAN	
05.112	EROSION AND SEDIMENT CONTROL PLAN	
05.113	WELL PAD CROSS SECTION PLAN	
05.114	WELL PAD CROSS SECTIONS A AND B	
05.115	STAKEOUT CROSS SECTIONS C, D, E AND F	
05.116	ARBOR LANE PLAN AND PROFILE	
05.117	ACCESS ROAD PLAN AND PROFILE	
05.118	ROAD CROSS SECTIONS	
05.100	GEOTECHNICAL SUBSURFACE SUMMARY	
05.101	GEOTECHNICAL SUBSURFACE SUMMARY	
05.102	GEOTECHNICAL SUBSURFACE SUMMARY	
05.103	GEOTECHNICAL TEST BORING INFORMATION	
05.104	GEOTECHNICAL SUBSURFACE DETAILS AND NOTES	
05.105	RECLAMATION PLAN WITH SERIAL	
05.106	RECLAMATION PLAN	

John
12/16/17

Michael Baker International
INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
CONSULTING ENGINEERS
MOON TOWNSHIP, PENNSYLVANIA

HICKS WELL PAD
FORK RIDGE ROAD - C.R. 17
CLAY DISTRICT, MARSHALL COUNTY
PREPARED FOR
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

COVER SHEET

Project Number: 15304
Drawing Scale: AS SHOWN
Date Plotted: 01/11/2017
Drawn By: JAC
Checked By: JAC
Project Manager: TMB

CSC000

