



 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

Thursday, February 21, 2019
 WELL WORK PERMIT
 Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC
 700 CHERRINGTON PARKWAY

CORAOPOLIS, PA 15108

Re: Permit approval for HICKS M16H
 47-051-02163-00-00

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 M16H
 Farm Name: THOMAS E. HICKS
 U.S. WELL NUMBER: 47-051-02163-00-00
 Horizontal 6A New Drill
 Date Issued: 2/21/2019

PERMIT CONDITIONS

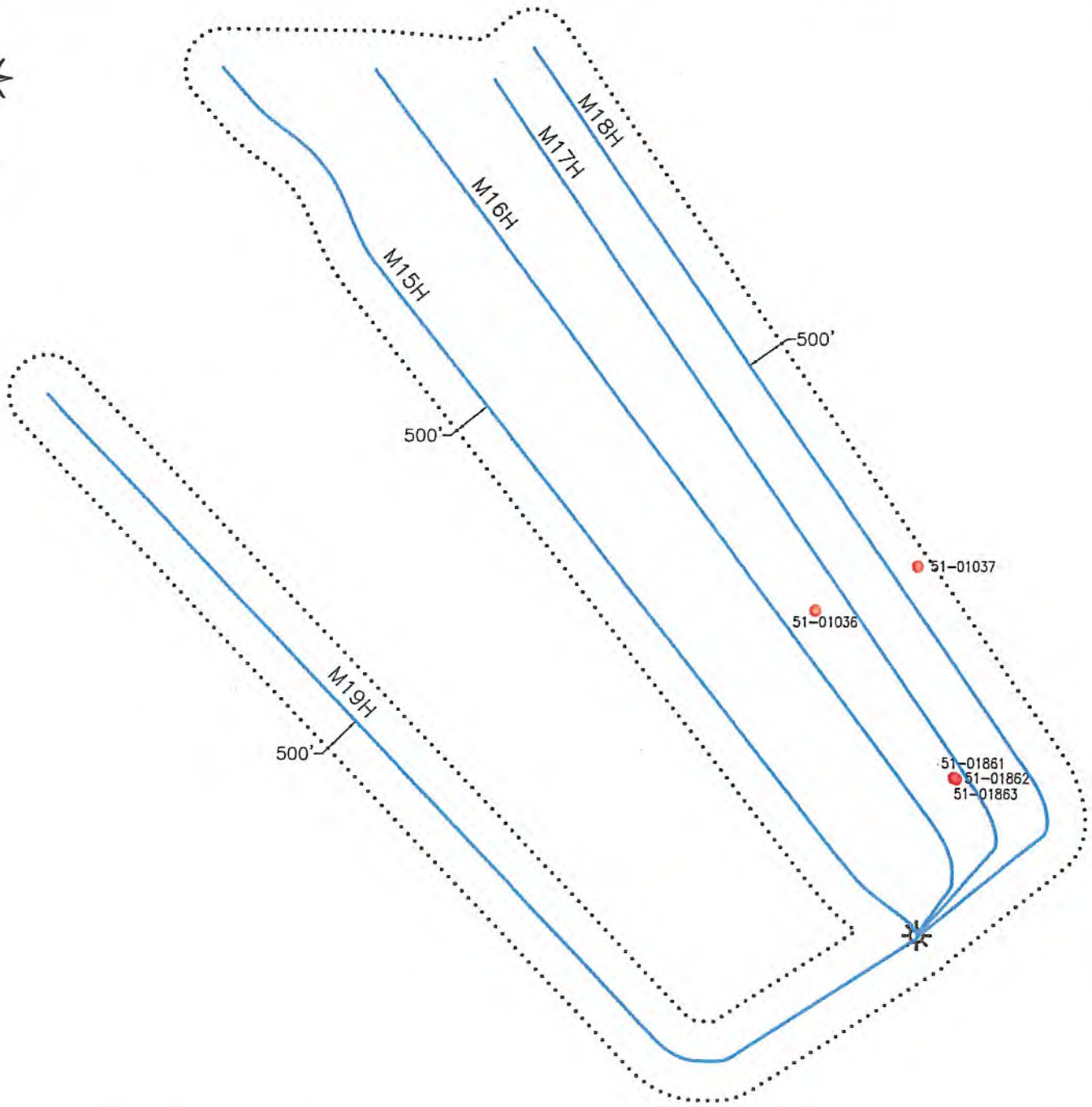
West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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.



Blue Mountain
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

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

LEGEND
 ☼ - WELL LOCATION
 ● - ACTIVE WELL

**HICKS BATCH 3
 AREA OF REVIEW MAP
 MARSHALL COUNTY
 CLAY DISTRICT
 WEST VIRGINIA**

TOPO QUAD: GLEN EASTON, WV
 SCALE: 1" = 2000'
 DATE: DECEMBER 4, 2018

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Well ID	Prior Operator/On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing/Formation	Producing Zones (NOT Perforated)
47-051-01036	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.883078	-80.723078	274'	Pittsburgh Seam	None
47-051-01037	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.884675	-80.718315	578'	Pittsburgh Seam	None
47-051-01861	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permit Issued	39.877336	-80.716485		Marcellus	
47-051-01862	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permit Issued	39.877314	-80.71642		Marcellus	
47-051-01863	Chevron Appalachia, LLC	Chevron Appalachia, LLC	Permit Issued	39.877291	-80.716355		Marcellus	

470510216019

WW-6B
(04/15)

API NO. 47- _____
OPERATOR WELL NO. M16H
Well Pad Name: Hicks

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

1) Well Operator: Chevron Appalachia, LLC

<u>49449935</u>	<u>Marshall</u>	<u>Clay</u>	<u>Glen Easton 7.5'</u>
-----------------	-----------------	-------------	-------------------------

Operator ID County District Quadrangle

2) Operator's Well Number: M16H Well Pad Name: Hicks

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

4) Elevation, current ground: 1161 Elevation, proposed post-construction: 1161

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal _____

ju
12/10/18

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6336 feet Below GL, Thickness: 50 Feet; Pore Pressure Gradient: 0.64 PSI/ft

8) Proposed Total Vertical Depth: 6336 feet below GL

9) Formation at Total Vertical Depth: Marcellus

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10) Proposed Total Measured Depth: 18,867

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11) Proposed Horizontal Leg Length: 11,963

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12) Approximate Fresh Water Strata Depths: 430 feet below GL

13) Method to Determine Fresh Water Depths: Deepest freshwater from water wells within 1 mile radius of the well

14) Approximate Saltwater Depths: 1110 ft, 1688 ft, 1755 ft.

15) Approximate Coal Seam Depths: 684 ft.

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

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

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

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	20	New			60	60	CTS
Fresh Water	13.375	New	J-55	54.5	480	480	CTS
Coal							
Intermediate	9.625	New	L-80	40	2,025	2,025	CTS
Production	5.50	New	P110	20	18,867	18,867	2358 (500' below 9.625" shoe)
Tubing							
Liners							

John
12/10/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	30					
Fresh Water	13.375	17.5	0.38	2,730	1,911	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	5,750	2,768	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14,360	9,975	Class A, G, or H	1.25
Tubing							
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill vertical depth to the Marcellus. Drill horizontal leg.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 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 & (1) per jt over coupling to surface; Intermediate: (1) on shoe track w/stop collar & (1) per 3 jts over coupling; Production String: (1) centralizer every jt in the lateral and curve & (1) every other joint from KOP to surface.

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

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For the Water String the blend will contain class A cement, 3% CaC12, and flake. The intermediate will contain class A cement, 3% CAC12, 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.

*Note: Attach additional sheets as needed.

02/22/2019

Cement Additives

The Water String the blend will contain class A cement, 3% CaCl₂, and flake.

The intermediate will contain class A cement, 10% 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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Hicks M16H

Clay Twp, Marshall Co, WV		Ground Level Elev. (ft above SL): 1,138				*All Depths Reference GL*			
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	INC	AZM			
Core Barrel / Auger		20" Conductor	60	60			26-36	Conductor 20" API 5L Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 2 ft over coupling to surface	13-3/8" Casing	480	480			17.5	Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 fts over coupling	9-5/8" Casing	2,025	2,025			12.375 - 12.25	Intermediate Casing 9-5/8" 40#L-80 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.835 Drift ID (in) 8.679 Burst (psi) 5,750 Collapse (psi) 3,080 Yield (Jt Strength 1,000 lbs) 916	Intermediate II Blend (Class A) Cement to Surface
Non-Conservation Float Equip. (2) Jts of Csg	Bow Spring: (1) per every other ft over coupling SpiraGlider or Centek: (1) per ft of csg to KOP	5-1/2" Casing	18,868	6,336			8.75 - 8.5	Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry Cement to 500' below 9-5/8" shoe RECEIVED Office of Oil and Gas DEC 20 2018 WV Department of Environmental Protection Production Tail Slurry TOC minimum 200' above Marcellus

Handwritten signature and date: 12/14/18

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. M16H

**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 KOP to TMD

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

Additives to be used in drilling medium? Barite, 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 or sent to a 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.

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I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT 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 Butchko
Company Official (Typed Name) Jenny Butchko
Company Official Title Permitting Team Lead

Subscribed and sworn before me this 28th day of November, 2018 Commonwealth of Pennsylvania
Laura Savage Notary Public
County of Allegheny

My commission expires September 17, 2022

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

Form WW-9

Operator's Well No. M16H

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed +/- 4 acres Prevegetation pH Per soils testing report

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

Fertilizer type ¹⁰⁻²⁰⁻²⁰ _____

Fertilizer amount 300 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Annual Ryegrass 50

No agricultural Upland and Hayfield, Pastureland and Cropland

Winter Wheat 75

Tall Fescue 100, Orchard Grass 80, Perennial Ryegrass 33,

Timothy 80, Ladino Clover 18, Birdsfoot- Trefoil 20,

Birdsfoot-Trefoil 18, Ladino Clover 20, Red Top 6

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Juan Hernandez*

Comments: _____

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Title: *Oil & Gas Inspector* Date: *12/10/15*

Field Reviewed? () Yes () No



Chevron

Appalachian LLC
WV Well Site Safety Plan
Pad: Hicks Pad A
Well # M16H

*Jan
12/11/18*

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

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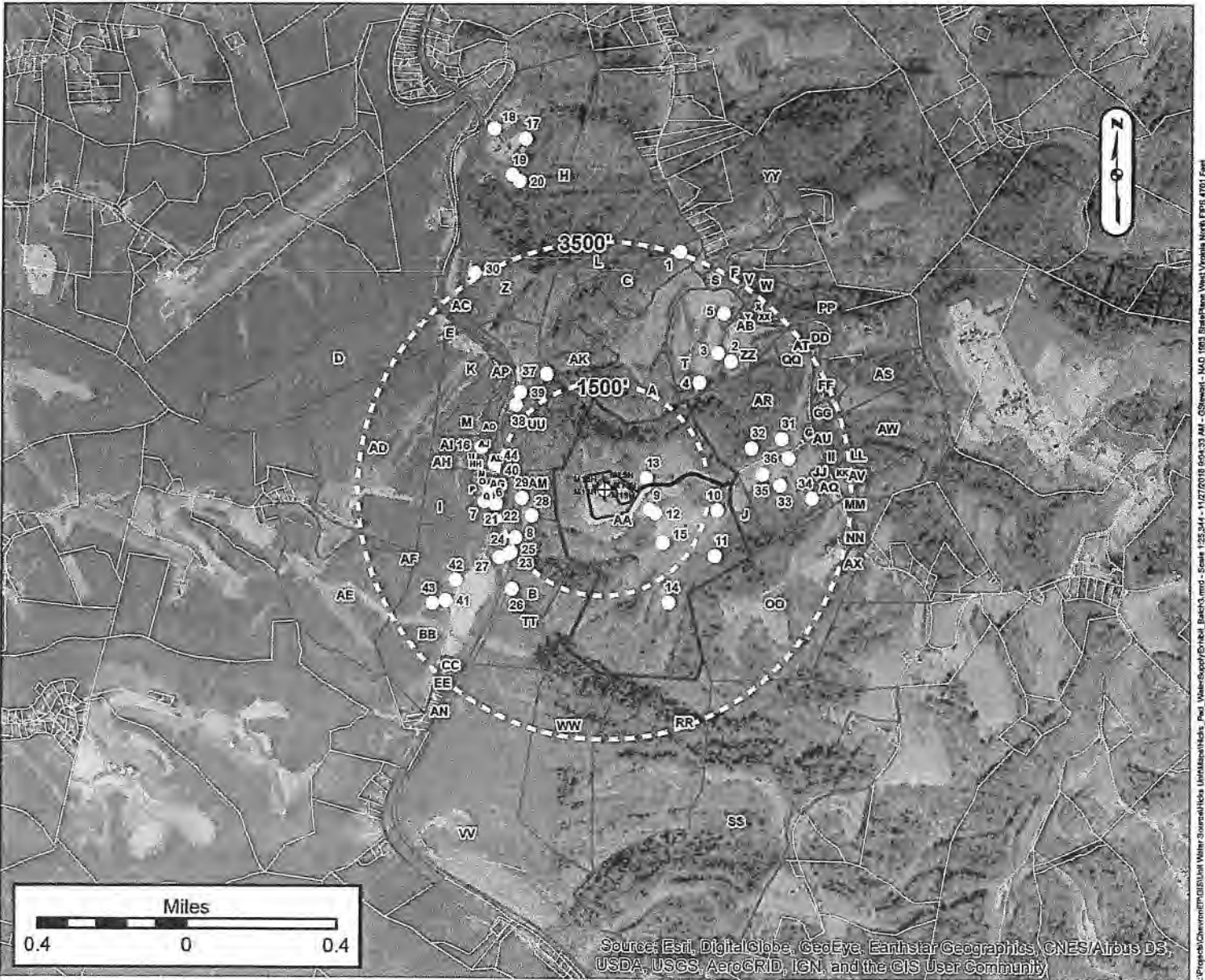
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WATER SUPPLY EXHIBIT HICKS PAD BATCH #3

02/22/2019
GEM



LOT OWNERS

Label	OWNER	TIM	Label	OWNER	TIM	Label	OWNER	TIM	Label	OWNER	TIM
A	SCHAFER LESLIE B & LORI	25-04 800340000000	Q	CLAYTON RALPH L ET UX	25-04 800750000000	GV	SCHEJNMAN GLENN J & SUZANNE K	25-04 900270000000	HW	COSTER EDWARD B ET UX ESTS -	25-04 100002000000
B	POND SIDNEY P ET UX	25-04 800360000000	R	POND SIDNEY P & VICKI L	25-04 8003500019000	HY	WYNNE VAL ANDREW ET UX	25-04 800290000000	FZ	FERRILL ROBERT F ET UX	25-04 4005800010000
C	ADKINS JASON B & DAWN R	25-04 4007900000000	S	RICKNEY ROBERT L ET AL	25-04 4005800130000	II	LOSH ROGER W & JODY L	25-04 9000700110000	VY	OCH JOHN W III ET UX	25-04 4005900100000
D	MERCER CHARLES W JR & JUDY	25-04 8003400000000	T	CHAMBERS MONTE J ET UX	25-04 8003800010000	JJ	HENRY MENNIE L - LIFE	25-04 9000200000000	ZZ	CHAMBERS JELINDA & MONTE	25-04 4005800110000
E	CLARK PATSY ANN	25-04 8003300000000	U	LITTMAN RICHARD E JR ET UX	25-04 8003900010000	KF	MCNICE MARTHA J & JAMES L	25-04 9000200100000	AB	CARPENTER DONALD T ET UX	25-04 4005800200000
F	LITTLETON HARRY LEBBOY ET UX	25-04 4005800000000	V	BRIDG JAMES E ET UX	25-04 4005800180000	II	MENCK CAROL LYNN ET VIR	25-04 9000200000000	AC	CONSOLIDATION COAL COMPANY	25-04 4007400000000
G	HICKS TERESA M	25-04 8003200100000	W	TRIPLETT JASON L & TRICIA L	25-04 4005800190000	IAAM	LYONS CHRISTINA S	25-04 8000900000000	AD	ASTON HENRY W & LINDA M - LIFE	25-04 8001700000000
H	BAUNTAINEER ENTERTAINMENT LLC	25-04 4003000000000	X	STERN JAMES MARTIN ET UX	25-04 4005800190000	IV	MILLER ROBERT D ET UX	25-04 9001100000000	AF	WILLIAMS MABEL SUZANNE	25-04 8003100000000
I	LITTMAN RICHARD E SR	25-04 8003200000000	Y	CARPENTER DONALD T JR	25-04 4005800120000	CSO	RUCHANAN JAMES B ET UX	25-04 8003900000000	AG	POND SIDNEY P & VICKI L	25-04 8003200000000
J	HICKS LUCILLE E	25-04 8003200000000	Z	BUCHANAN JANE ELOWISE	25-04 8003900000000	PP	FERRILL ROBERT F ET UX	25-04 4005900000000	AM	POND SIDNEY P & VICKI L	25-04 8003200000000
K	MORRIS DORNIIE ET UX	25-04 8003500010000	AA	HICKS THOMAS E	25-04 8003700000000	OQ	MCGARY RUBY LAVERNE ET AL - LIFE	25-04 9000200040000	AH	LITTMAN RICHARD E SR	25-04 8003100000000
L	GOONCHOP JOSEPH	25-04 4005700000000	BB	WILLIAMS MABEL SUZANNE	25-04 8003900000000	AR	COSTER EDWARD B ET UX ESTS -	25-04 1000030000000	AJ	LITTMAN RICHARD E SR	25-04 8003100000000
M	THOMAS DENVER D ET UX	25-04 8003200000000	CC	SMITH MARGIE TH	25-04 8003400000000	SS	WYBRIGT DENNIS D ET UX	25-04 8003600000000	AK	SCHAFER LESLIE B & LORI D	25-04 8003400000000
N	WHEELATCH RICHARD P & JAMIE L	25-04 8002700000000	DD	DAK GROVE M L CHURCH	25-04 8000100000000	TT	POND SIDNEY P & VICKI L	25-04 8003500000000	AV	LITTMAN RICHARD E SR	25-04 8003100000000
O	TAGG KENNETH B	25-04 8002700000000	EE	ALLMAN MICHAEL RAY	25-04 8002800000000	UU	STERN RONALD B WOOD ET UX	25-04 8003500000000	AW	RUCHANAN GLENN J & SUZANNE K	25-04 9000200150000
P	CLAYTON RALPH L ET UX	25-04 8002600010000	FF	HENNERMAN JASON C & CHRISTINA M	25-04 9000200170000	VV	MOUNDSVILLE CITY OF	25-04 3000010000000	AX	BUCHANAN JAMES B ET UX	25-04 9001300010000

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.

L:\Projects\ChromEB\GIS\Water\300m\Hicks\Batch3.mxd - Scale 1:25,344 - 11/27/2018 6:04:33 AM - G:\West - MCD 1003 State\West\Virginia\North\PPS 4701 Foot



WATER SUPPLY EXHIBIT
HICKS PAD BATCH #3

02/22/2019

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
1*	ADKINS JASON B & DAWN R	Spring	1,214	148 Nathan Lane	304-845-9456
2	CHAMBERS JELINDA & MONTE	Spring	1,123	3389 Fork Ridge Road	304-218-8647
3	CHAMBERS JELINDA & MONTE	Spring	1,108	3389 Fork Ridge Road	304-218-8647
4	CHAMBERS MONTE J ET UX	Spring	1,121	3389 Fork Ridge Road	304-218-8647
5	CHAMBERS MONTE J ET UX	Pond	1,176	3389 Fork Ridge Road	304-218-8647
6	CLAYTON RALPH L ET UX	Well	734	3307 Big Grave Creek Road	304-845-3507
7	CLAYTON RALPH L ET UX	Stream	736	3307 Big Grave Creek Road	304-845-3507
8	POND SIDNEY P & VICKI L	Well	539	119 Labrador Lane	304-843-1522
9	HICKS THOMAS E	Well	1,112	353 Arbor Lane	304-559-7031
10	HICKS THOMAS E	Well	1,158	353 Arbor Lane	304-559-7031
11	HICKS THOMAS E	Stream	1,116	353 Arbor Lane	304-559-7031
12	HICKS THOMAS E	Stream	1,111	353 Arbor Lane	304-559-7031
13	HICKS THOMAS E	Stream	1,117	353 Arbor Lane	304-559-7031
14	HICKS THOMAS E	Pond	1,112	353 Arbor Lane	304-559-7031
15	HICKS THOMAS E	Pond	1,111	353 Arbor Lane	304-559-7031

No.	SUPPLY COORDINATES	M15H	M16H	M17H	M18H	M19H									
1	39°52'51.56400"N 80°42'52.07400"W	3,470	3,483	3,496	3,509	3,522									
2	39°52'36.41880"N 80°42'42.33960"W	2,518	2,526	2,534	2,542	2,551									
3	39°52'37.48800"N 80°42'44.78400"W	2,469	2,478	2,487	2,497	2,506									
4	39°52'33.37320"N 80°42'48.02040"W	1,989	1,998	2,007	2,016	2,025									
5	39°52'43.06080"N 80°42'43.80120"W	2,966	2,976	2,987	2,997	3,008									
6	39°52'17.70240"N 80°43'26.01840"W	1,633	1,635	1,638	1,640	1,643									
7	39°52'16.34520"N 80°43'26.69160"W	1,700	1,701	1,702	1,704	1,705									
8	39°52'11.42040"N 80°43'20.97120"W	1,443	1,438	1,434	1,429	1,425									
9	39°52'15.61800"N 80°42'56.61880"W	722	713	703	695	686									
10	39°52'15.67920"N 80°42'44.41320"W	1,644	1,639	1,633	1,627	1,622									
11	39°52'09.33240"N 80°42'44.70120"W	1,857	1,847	1,836	1,826	1,816									
12	39°52'15.11040"N 80°42'55.73160"W	821	811	802	793	784									
13	39°52'19.97760"N 80°42'57.50640"W	606	606	606	607	608									
14	39°52'02.75520"N 80°42'53.05680"W	1,874	1,860	1,846	1,832	1,817									
15	39°52'11.07840"N 80°42'54.26280"W	1,150	1,138	1,126	1,114	1,102									

*WATER SOURCE PREVIOUSLY LOCATED IN 2016.



WATER SUPPLY EXHIBIT
HICKS PAD BATCH #3

02/22/2019

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
16	LITMAN RICHARD EARL SR JR	Well	733	34 Litman Drive	304-810-2404
17	MOUNTAINEER ENTERPRISES LLC	Well	692	Big Grave Creek Road	304-845-7537
18	MOUNTAINEER ENTERPRISES LLC	Well	663	Big Grave Creek Road	304-845-7537
19	MOUNTAINEER ENTERPRISES LLC	Pond	697	Big Grave Creek Road	304-845-7537
20	MOUNTAINEER ENTERPRISES LLC	Pond	711	Big Grave Creek Road	304-845-7537
21	POND SIDNEY P & VICKI L	Well	729	119 Labrador Lane	304-845-6520
22	POND SIDNEY P & VICKI L	Stream	733	119 Labrador Lane	304-845-6520
23	POND SIDNEY P & VICKI L	Well	733	119 Labrador Lane	304-845-6520
24	POND SIDNEY P ET UX	Well	733	119 Labrador Lane	304-845-6520
25	POND SIDNEY P ET UX	Stream	729	119 Labrador Lane	304-845-6520
26	POND SIDNEY P ET UX	Stream	734	119 Labrador Lane	304-845-6520
27	POND SIDNEY P ET UX	Stream	716	119 Labrador Lane	304-845-6520
28	POND VICKIE L & SIDNEY P	Spring	716	119 Labrador Lane	304-845-6520
29	POND VICKIE L & SIDNEY P	Spring	725	119 Labrador Lane	304-845-6520
30	RICHMOND, LESTER A.	Spring	713	350 Falls Creek Lane	304-231-7656

No.	SUPPLY COORDINATES	M15H	M16H	M17H	M18H	M19H								
16	39°52'23.84760"N 80°43'27.50980"W	1,819	1,827	1,834	1,841	1,849								
17	39°53'06.90360"N 80°43'20.49600"W	5,015	5,030	5,045	5,060	5,075								
18	39°53'08.20680"N 80°43'26.22000"W	5,265	5,280	5,295	5,310	5,324								
19	39°53'01.81320"N 80°43'22.71360"W	4,565	4,580	4,595	4,610	4,625								
20	39°53'00.99240"N 80°43'21.41040"W	4,456	4,471	4,486	4,501	4,516								
21	39°52'16.07880"N 80°43'24.79080"W	1,558	1,559	1,559	1,560	1,561								
22	39°52'16.09680"N 80°43'24.59280"W	1,542	1,543	1,544	1,545	1,546								
23	39°52'09.12000"N 80°43'22.12680"W	1,647	1,641	1,635	1,630	1,624								
24	39°52'09.12000"N 80°43'22.12680"W	1,647	1,641	1,635	1,630	1,624								
25	39°52'09.37560"N 80°43'21.80280"W	1,612	1,606	1,600	1,594	1,588								
26	39°52'04.21680"N 80°43'21.55080"W	1,953	1,944	1,935	1,926	1,917								
27	39°52'08.58720"N 80°43'23.84040"W	1,787	1,782	1,776	1,770	1,765								
28	39°52'14.48400"N 80°43'18.15960"W	1,106	1,103	1,101	1,098	1,096								
29	39°52'16.92840"N 80°43'19.92720"W	1,170	1,171	1,172	1,173	1,174								
30	39°52'48.08280"N 80°43'29.22960"W	3,511	3,525	3,539	3,553	3,567								

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WATER SUPPLY EXHIBIT
HICKS PAD BATCH #3

02/22/2019

No.	WATER PURVEYOR	SUPPLY	ELEV.	ADDRESS	PHONE #
31*	RYAN JEFFREY L	Spring	1,218	Arbor Lane	304-845-3267
32*	RYAN JEFFREY L	Spring	1,206	Arbor Lane	304-845-3267
33*	RYAN JEFFREY L	Spring	1,187	Arbor Lane	304-845-3267
34*	RYAN JEFFREY L	Spring	1,219	Arbor Lane	304-845-3267
35*	RYAN JEFFREY L	Pond	1,211	Arbor Lane	304-845-3267
36*	RYAN JEFFREY L	Well	1,251	Arbor Lane	304-845-3267
37	STERN RONALD ELWOOD ET UX	Stream	716	850 Falls Creek Lane	304-845-0925
38	STERN RONALD ELWOOD ET UX	Pond	717	850 Falls Creek Lane	304-845-0925
39	STERN RONALD ELWOOD ET UX	Pond	716	850 Falls Creek Lane	304-845-0925
40	TAGG KENNETH B	Well	575	3303 Big Grave Creek Road	304-845-0280
41	WILLIAMS MABEL JUANITA	Well	758	3649 Big Grave Creek Road	304-845-9499
42	WILLIAMS MABEL JUANITA	Spring	730	3649 Big Grave Creek Road	304-845-9499
43	WILLIAMS MABEL JUANITA	Spring	776	3649 Big Grave Creek Road	304-845-9499
44	WINER, VAL	Well	689	3209 Big Grave Creek Road	304-845-4573

No.	SUPPLY COORDINATES	M15H	M16H	M17H	M18H	M19H												
31	39°52'25.74120"N 80°42'32.81040"W	2,615	2,616	2,617	2,618	2,620												
32	39°52'24.38040"N 80°42'38.32920"W	2,164	2,165	2,166	2,167	2,168												
33	39°52'19.25400"N 80°42'32.95440"W	2,508	2,505	2,502	2,500	2,497												
34	39°52'17.52240"N 80°42'27.14760"W	2,963	2,959	2,956	2,952	2,948												
35	39°52'20.74440"N 80°42'36.21240"W	2,262	2,260	2,259	2,257	2,256												
36	39°52'23.03040"N 80°42'31.56120"W	2,651	2,651	2,650	2,649	2,649												
37	39°52'34.17960"N 80°43'15.74760"W	1,765	1,779	1,794	1,808	1,823												
38	39°52'29.81640"N 80°43'21.30600"W	1,685	1,697	1,709	1,722	1,734												
39	39°52'31.56960"N 80°43'20.56800"W	1,768	1,781	1,794	1,807	1,820												
40	39°52'18.70320"N 80°43'23.80080"W	1,457	1,460	1,463	1,467	1,470												
41	39°52'02.46720"N 80°43'33.52080"W	2,762	2,756	2,750	2,744	2,738												
42	39°52'05.32560"N 80°43'31.72080"W	2,481	2,476	2,470	2,465	2,460												
43	39°52'02.01720"N 80°43'35.95440"W	2,842	2,937	2,931	2,925	2,920												
44	39°52'21.57240"N 80°43'25.11480"W	1,584	1,590	1,596	1,602	1,608												

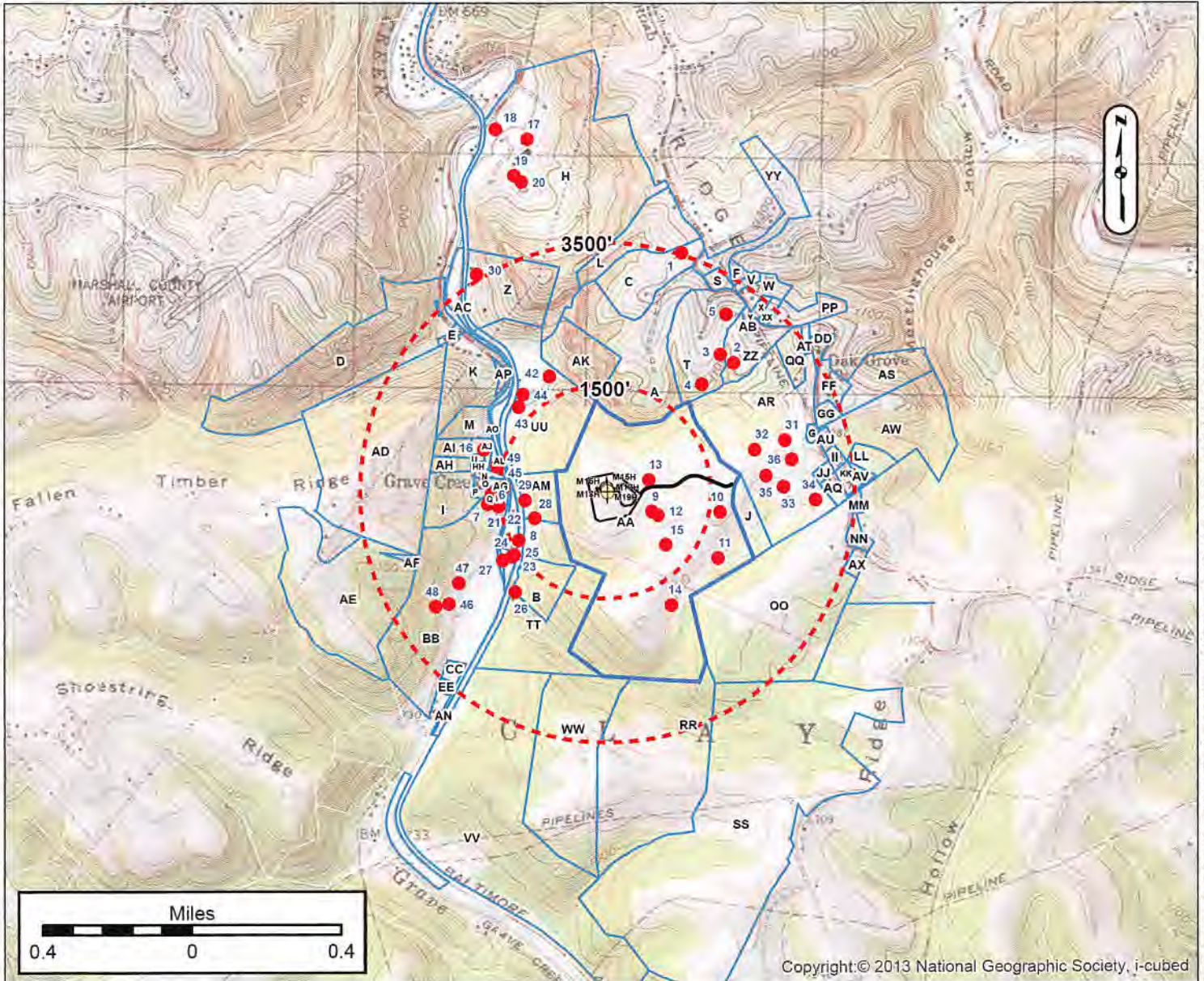
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*WATER SOURCE PREVIOUSLY LOCATED IN 2016.



WATER SUPPLY EXHIBIT HICKS PAD BATCH #3

02/22/2019
GESM



LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM			
A	SCHABER LESLIE B & LORI	25-04 800350000000	CI	CLAYTON RALPH L ET UX	25-04 800250000000	GG	SCHUMAN GUERRY J & SUZANNE K	25-04 900020000000	WW	COSTER EDWARD B ET UX ESTS.	25-04 100002000000	AN	CONSOLIDATION COAL COMPANY	25-04 800300000000
B	POND SIDNEY P ET UX	25-04 800360000000	RI	POND SIDNEY P & VICKI L	25-04 800250010000	HH	WINNER VAL ANDREW ET UX	25-04 800300000000	IX	FERRILL ROBERT V ET UX	25-04 400580000000	AD		25-04 899900000000
C	ADAMS JASON B & DAWN R	25-04 400700000000	S	RICHEY ROBERT L ET AL	25-04 400520010000	II	LOAN ROGER W & GODYE	25-04 900020010000	YY	COLE JOHN W III ET UX	25-04 400580010000	AP		25-04 899900000000
D	MERCER CHARLES W JR & JUDY	25-04 800150000000	T	CHAMBERS MONTE E ET UX	25-04 8003800010000	IJ	HENRY MINNIE L - LIFE	25-04 900020000000	ZZ	CHAMBERS JELINDA & MONTE	25-04 400580010000	AQ	HENRY MINNIE L - LIFE	25-04 9000200010000
E	CLARK PATSY ANN	25-04 800310000000	U	LITMAN RICHARD E JR ET UX	25-04 8002800010000	KK	KOONCE MARTHA J & JAMES I	25-04 9000200010000	AB	CARPENTER DONALD T ET UX	25-04 400580000000	AR	RYAN JEFFREY L	25-04 9000200050000
F	LITTLETON HARRY LEROY ET UX	25-04 4005800080000	V	KIDD JAMES E ET UX	25-04 4005800170000	LL	MINOR CAROL LYNN ET VIR	25-04 9000200050000	AC	CONSOLIDATION COAL COMPANY	25-04 4007400000000	AS	SCHUMAN GUERRY J & SUZANNE K	25-04 9000200070000
G	HICKS TERESA M	25-04 9000200150000	W	TRIPLETT JASON L & TRICIA L	25-04 4005800180000	MM	LYONS CHRISTINA S	25-04 9000900000000	AD	ASTON HENRY W & LINDA M-LIFE	25-04 8003700000000	AT	RYAN JEFFREY L	25-04 9000200120000
H	MOUNTAINEER ENTERPRISES LLC	25-04 4003000000000	K	STERN JAMES MARTIN ET UX	25-04 4005800190000	NN	MILLER ROBERT D ET UX	25-04 9001000000000	AE	BONHAR FAMILY IRREVOCABLE TR	25-04 8003800000000	AU	LOSH ROGER W & JODY L	25-04 8000200130000
I	LITMAN RICHARD E SR	25-04 8003200000000	Y	CARPENTER DONALD T JR	25-04 4005800120000	OO	BUCHANAN JAMES R ET UX	25-04 8003100000000	AF	WILLIAMS MABEL JUANITA	25-04 8003200000000	AV	HODGEE JAMES I	25-04 9000200140000
J	HICKS LUCILLE E	25-04 8003700000000	Z	RICHMOND JANET ELLOWISE	25-04 4005900000000	PP	FERRILL ROBERT V ET UX	25-04 4005900000000	AG	POND SIDNEY P & VICKI L	25-04 8002500000000	AW	SCHUMAN GUERRY J & SUZANNE K	25-04 9000200150000
K	MORRIS DONNIE ET UX	25-04 8003500010000	AA	HICKS THOMAS E	25-04 8003700000000	QQ	MCCIGARY RUBY LAVENNE ET AL-LIFE	25-04 9000200040000	AH	LITMAN RICHARD E SR	25-04 8003200000000	AX	BUCHANAN JAMES R ET UX	25-04 9000200100000
L	GDONCHOFF JOSEPH	25-04 4005700000000	BB	WILLIAMS MABEL JUANITA	25-04 8002300000000	RR	COSTER EDWARD B ET UX ESTS	25-04 1000030000000	AI	LITMAN RICHARD E SR	25-04 8003000000000			
M	THOMAS DENVER D ET UX	25-04 8003200000000	CC	MARTIN MARILYN	25-04 8002300030000	SS	WINGGROVE DENNIS D ET UX	25-04 1000040000000	AJ	LITMAN RICHARD EARL SR	25-04 8003100000000			
N	WHITLATCH RICHARD P & JAMIE L	25-04 8002800000000	DD	OAK GROVE M E CHURCH	25-04 8002100000000	TT	POND SIDNEY P & VICKI L	25-04 8003600000000	AK	SCHABER LESLIE B & LORI D	25-04 8003400000000			
O	TAGG KENNETH B	25-04 8002700000000	EE	OAK GROVE MICHAEL RAY	25-04 8002300020000	UU	STERN RONALD ELWOOD ET UX	25-04 8003500000000	AL	LITMAN RICHARD E SR	25-04 8003100000000			
P	CLAYTON RALPH L ET UX	25-04 80031000010000	FF	HINERMAN JASON C & CHRISTINA M	25-04 9000200170000	VV	INDUSTRVILLE CITY OF	25-04 100001000000000	AM	POND VICKI L & SIDNEY P	25-04 8003500030000			

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: MOUNDVILLE, 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.

BHL is located on topo map 5,469 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 1,150 feet south of Latitude: 39° 52' 30"

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL



BHL is located on topo map 9,960 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 2,735 feet west of Longitude: 80° 42' 30"

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4413571.33 E:524109.72 NAD83, WV NORTH N:501988.070 E:1626630.060	UTM 17-NAD83(M) N:4414010.43 E:524153.92 NAD83, WV NORTH N:503426.550 E:1626799.190	UTM 17-NAD83(M) N:4416873.16 E:521897.42 NAD83, WV NORTH N:512944.400 E:1619551.510



	SURFACE OWNER	DIST-TM/PAR
1	THOMAS E. HICKS	4-8/37
2	CHEVRON USA INC	4-8/38
3	CHEVRON USA INC	4-8/34
4	MOUNTAINEER ENTERPRISES LLC	4-4/30
5	LESTER ALLEN & JANET E. RICHMOND	4-4/29
6	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-4/74
7	VERNON L. HYDE	4-4/71
8	JANET ELOWISE RICHMOND - LIFE	4-4/72
9	WILLARD L. ATWELL ET UX	4-4/73
10	VERNON L. HYDE	4-4/70
11	DANIEL L. & REBECCA L. WILLIAMS	4-4/70.1
12	CARL E., JR. & CARLENE LUCAS	4-4/4.5
13	DANIEL MARK TURKLEY	4-4/4.6
14	ERIC M. ROBERTS ET AL	4-4/4.4
15	THOMAS E., JR. & CRYSTAL M. ROGERSON	4-4/4.10
16	THOMAS E. ROGERSON JR.	4-4/4.12
17	ROBERT HAYWOOD MCCARTNEY ET UX	4-4/4.9
18	THOMAS E. ROGERSON JR.	4-4/4.3
19	SABRINA RENEE RUDISH	4-4/4
20	*CHARLES JOSEPH DARMAFALL - TOD	4-4/4.2
21	JON D. WAYT ET UX	4-4/4.7
22	RAYMOND V. CLAYTON	4-4/4.1
23	NANCY L. PARKS	4-4/6.1
24	JOHN T. PARKS EST	4-4/6
25	JOHN T. PARKS EST	4-4/5
26	LYLE R. MCMASTERS	4-4/7
27	GLEN MICHAEL SCHMID ET UX	4-4/8
28	GLEN MICHAEL SCHMID ET UX	4-4/9
29	ROBERT LEE HALL	4-4/10
30	JOS W. GOULDSBERRY JR. ET UX	4-4/11
31	JOS W. GOULDSBERRY JR. ET UX	4-4/12
32	SHERRI J. & GEORGE C. ANDERSON	4-4/13
33	GEORGE C. & SHERRI J. ANDERSON	4-4/14
34	WILLIAM J. FRITZMAN	4-4/15
35	ROBERT L. & PATSY CLARK	4-4/16
36	ROBERT L. CLARK	4-4/17.1
37	GEORGE R. FINNEGAN	4-4/17
38	PAUL WAYNE LIGHTNER	4-4/1.1
39	JOHN D. & CATHY L. LIGHTNER	4-4/1.7
40	JOHN D., JR. & CATHY L. LIGHTNER	4-4/1.2
41	JOHN D. & CATHY L. LIGHTNER	4-4/1.5
42	PAUL W. & AMANDA LIGHTNER	4-4/1.6
43	PAUL W. & AMANDA LIGHTNER	4-4/1.4
44	MARSHALL COUNTY HUNTING & FISHING	4-3/8
45	CHAPLIN REAL ESTATE CO	4-2/49

02/22/2019

	LESSOR	DIST-TM/PAR
A	CHRISTA DAWN HICKS ET AL	4-8/37
B	MARGARET E. HOSTUTLER, TRUSTEE	4-8/38
C	LESLIE SCHABER ET AL	4-8/34
D	CNX GAS COMPANY LLC	4-4/30
E	LESTER ALLEN RICHMOND ET AL	4-4/29
F	CNX GAS COMPANY LLC	4-4/74
G	ANDREW L. JACOBS JR.	4-4/71
H	JANET RICHMOND ET VIR	4-4/72
J	VERNON L. HYDE	4-4/70
K	VERNON L. HYDE	4-4/4.9
	ROBERT H. MCCARTNEY, ET UX	
L	THOMAS E. ROGERSON JR., ET UX	4-4/4.3
M	JOSEPH CHARLES RUDISH	4-4/4
N	*CHARLES J. DARMAFALL, ET UX	4-4/4.2
P	PAUL WAYNE LIGHTNER	4-4/1.7
Q	JOHN D. LIGHTNER JR. ET UX	4-4/1.2
R	PATRICIA A. BUNGARD	4-4/1.5
S	PATRICIA A. BUNGARD	4-4/1.6
T	DOUGLAS J. HUDSON ET UX	4-4/1.4
U	MARSHALL COUNTY HUNTING AND FISHING CLUB INC.	4-3/8
	THE HEIRS OF E. S. RICHARDON	
V	CHAPLIN REAL ESTATE CO	4-2/49

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE



FILE #: HICKS M16H
 DRAWING #: HICKS M16H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

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



PLACE SEAL HERE

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



DATE: OCTOBER 24, 2018
 OPERATOR'S WELL #: HICKS M16H
 API WELL #: 47 51 02163 ^{HGA}
 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: 886.388±

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

(SPECIFY): _____

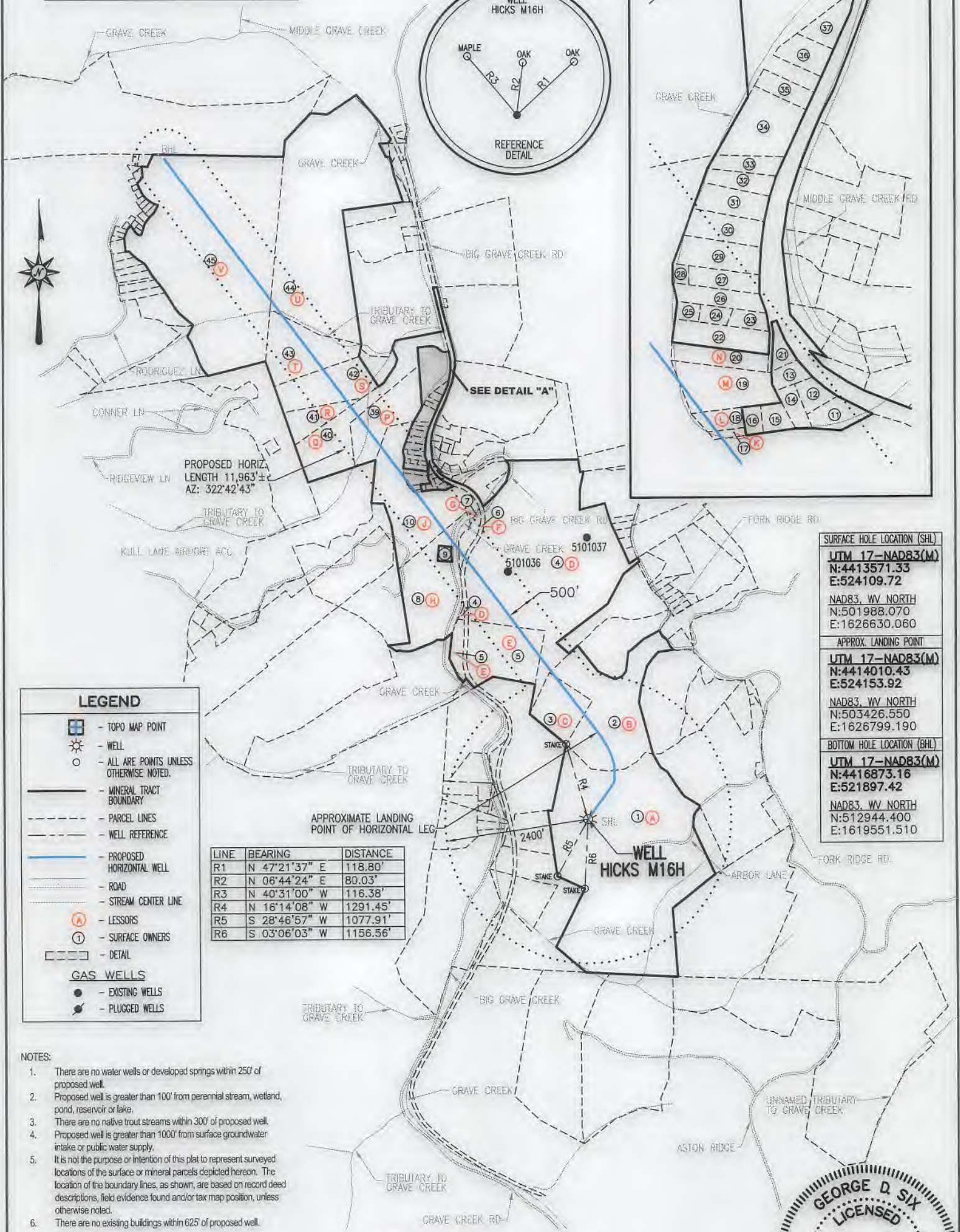
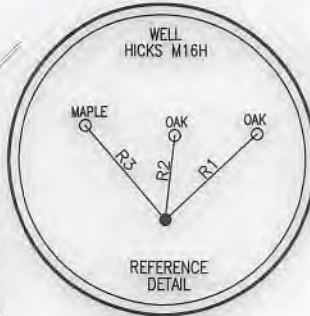
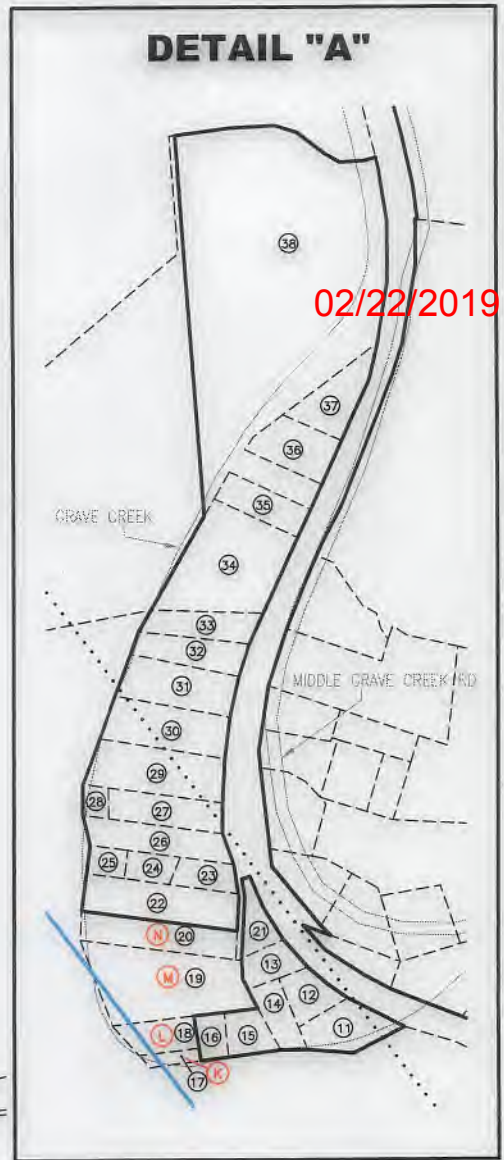
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,336'± TMD: 18,867.72'±

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 M16H PAGE 2 OF 2

WELL PAD ORIENTATION DETAIL

N.T.S.



SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4413571.33
E:524109.72
NAD83, WV NORTH
N:501988.070
E:1626630.060
APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4414010.43
E:524153.92
NAD83, WV NORTH
N:503426.550
E:1626799.190
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4416873.16
E:521897.42
NAD83, WV NORTH
N:512944.400
E:1619551.510

LEGEND

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

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS

LINE	BEARING	DISTANCE
R1	N 47°21'37" E	118.80'
R2	N 06°44'24" E	80.03'
R3	N 40°31'00" W	116.38'
R4	N 16°14'08" W	1291.45'
R5	S 28°46'57" W	1077.91'
R6	S 03°06'03" W	1156.56'

- NOTES:**
- There are no water wells or developed springs within 250' 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 surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
 - There are no existing buildings within 625' of proposed well.

OCTOBER 24, 2018

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

George D. Six



WW-6A1
(5/13)

Operator's Well No. M16H

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

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

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

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

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

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

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

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

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

Hicks Unit #16H

Plat ID	Parcel Number	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2
1	4-8-37	Hicks, Christa Dawn et al	Chevron U.S.A. Inc.	0.18	841/246	n/a	n/a
2	4-8-38	Hostutler, Margaret E. Trustee	Chevron U.S.A. Inc.	0.16	828/346	n/a	n/a
3	4-8-34	Schaber, Leslie et al	TriEnergy Holdings, LLC	0.18	704/16	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.
4	4-4-30	CNX Gas Company LLC	Chevron U.S.A. Inc.	0.2	818/549	n/a	n/a
5	4-4-29	Richmond, Lester Allen et al	Chevron U.S.A. Inc.	0.18	860/249	n/a	n/a
6	4-4-74	CNX Gas Company LLC	Chevron U.S.A. Inc.	0.2	818/549	n/a	n/a
7	4-4-71	Hyde, Vernon L. - SFX	Chevron U.S.A. Inc.	0.16	791/212	n/a	n/a
8	4-4-72	Jacobs, Andrew L., Jr. - SFX	Chevron U.S.A. Inc.	0.18	847/194	n/a	n/a
10	4-4-70	Richmond, Janet et vir	Chevron U.S.A. Inc.	0.18	860/240	n/a	n/a
17	4-4-4.9	Hyde, Vernon L. - SFX	Chevron U.S.A. Inc.	0.16	791/212	n/a	n/a
		McCartney, Robert H. et ux	Chevron U.S.A. Inc.	0.14	835/261	n/a	n/a
18	4-4-4.3	Rogerson, Thomas E., Jr.	Chesapeake Appalachia, L.L.C.	0.18	760/432	30/461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a
19	4-4-4	Rudish, Joseph Charles	Chevron U.S.A. Inc.	0.16	903/198	n/a	n/a
39	4-4-1.7	Lightner, Paul Wayne	Chevron U.S.A. Inc.	0.18	861/643	n/a	n/a
40	4-4-1.2	Lightner, John D Jr. et ux	Chevron U.S.A. Inc.	0.18	862/1	n/a	n/a
41	4-4-1.5	Bungard, Patricia A.	NPAR, LLC	0.1875	700/467	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
42	4-4-1.6	Bungard, Patricia A.	NPAR, LLC	0.1875	700/467	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
43	4-4-1.4	Hudson, Douglas J. et ux	NPAR, LLC	0.1875	700/462	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
		Marshall County Hunting and Fishing Club Inc.	Chevron U.S.A. Inc.	0.16	795/358	n/a	n/a
		Pierce, Jo Ann L. - SFX	Chevron U.S.A. Inc.	0.14	806/51	n/a	n/a
		Stewart, Vicki L. - SFX	Chevron U.S.A. Inc.	0.14	806/381	n/a	n/a
		Miller, Mary V. - SFX	Chevron U.S.A. Inc.	0.14	811/414	n/a	n/a
		Hayes, William Wayne - SFX	Chevron U.S.A. Inc.	0.14	805/263	n/a	n/a
		Berdine, Shirley Jean - SFX	Chevron U.S.A. Inc.	0.14	805/363	n/a	n/a
		Cutlip, Charlotte - SFX	Chevron U.S.A. Inc.	0.14	804/622	n/a	n/a

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Plat ID	Parcel Number	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2
		Dennison, Clifton Gary - SFX	Chevron U.S.A. Inc.	0.14	804/629	n/a	n/a
		Dennison, Kevan D. - SFX	Chevron U.S.A. Inc.	0.14	807/313	n/a	n/a
		McCullough, Nancy Irene - SFX	Chevron U.S.A. Inc.	0.14	805/370	n/a	n/a
		Robinson, Glenna A. - SFX	Chevron U.S.A. Inc.	0.14	814/406	n/a	n/a
		Gill, Glenda - SFX	Chevron U.S.A. Inc.	0.14	811/421	n/a	n/a
		Tait, Betty J. - SFX	Chevron U.S.A. Inc.	0.14	811/433	n/a	n/a
		Stevens, Albert D. - SFX	Chevron U.S.A. Inc.	0.14	813/84	n/a	n/a
		Linde, Janis K. - SFX	Chevron U.S.A. Inc.	0.14	813/127	n/a	n/a
		Stevens, John F. - SFX	Chevron U.S.A. Inc.	0.14	807/170	n/a	n/a
		Gilbert, Allan E. - SFX	Chevron U.S.A. Inc.	0.14	813/640	n/a	n/a
		Skidmore, Jeanette - SFX	Chevron U.S.A. Inc.	0.14	814/582	n/a	n/a
		Bee, Sharon - SFX	Chevron U.S.A. Inc.	0.14	814/446	n/a	n/a
		Hatcher, Willie V. - SFX	Chevron U.S.A. Inc.	0.14	815/169	n/a	n/a
		Haslett, Pamela J. - SFX	Chevron U.S.A. Inc.	0.14	815/400	n/a	n/a
		Dotson, Naomi - SFX	Chevron U.S.A. Inc.	0.14	815/451	n/a	n/a
		Hart, Donald Andrew - SFX	Chevron U.S.A. Inc.	0.14	817/555	n/a	n/a
		Hart, Daniel A. - SFX	Chevron U.S.A. Inc.	0.14	817/548	n/a	n/a
		Wood, Sharon F. - SFX	Chevron U.S.A. Inc.	0.14	817/499	n/a	n/a
		Hickman, Kenneth A. - SFX	Chevron U.S.A. Inc.	0.14	818/113	n/a	n/a
		Smith, Donna Marie - SFX	Chevron U.S.A. Inc.	0.14	818/130	n/a	n/a
		Dennison, James F. - SFX	Chevron U.S.A. Inc.	0.14	817/608	n/a	n/a
		Snyder, Colleen K. - SFX	Chevron U.S.A. Inc.	0.14	817/582	n/a	n/a
		Hayes, Janice L. - SFX	Chevron U.S.A. Inc.	0.14	816/449	n/a	n/a
		Greene, Emma - SFX	Chevron U.S.A. Inc.	0.14	822/383	n/a	n/a
		Rosenlieb, Tammy - SFX	Chevron U.S.A. Inc.	0.14	822/333	n/a	n/a
		Price, Kimberly C. - SFX	Chevron U.S.A. Inc.	0.14	822/113	n/a	n/a
		Cain, Joseph L. et ux - SFX	Chevron U.S.A. Inc.	0.14	822/83	n/a	n/a
		Cain, Royce D. - SFX	Chevron U.S.A. Inc.	0.14	822/103	n/a	n/a
		Byard, William - SFX	Chevron U.S.A. Inc.	0.14	829/218	n/a	n/a
		Nolan, Janice E. - SFX	Chevron U.S.A. Inc.	0.14	829/585	n/a	n/a
		Metz, Mary M. et vir - SFX	Chevron U.S.A. Inc.	0.14	829/356	n/a	n/a
		Lancaster, Brenda R. - SFX	Chevron U.S.A. Inc.	0.14	828/381	n/a	n/a

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Plat ID	Parcel Number	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2
44	4-3-8	Crum, Carolyn - SFX	Chevron U.S.A. Inc.	0.14	828/437	n/a	n/a
		Hatcher, Delores M. - SFX	Chevron U.S.A. Inc.	0.14	828/409	n/a	n/a
		Fluharty, Elva V. - SFX	Chevron U.S.A. Inc.	0.14	828/416	n/a	n/a
		Hatcher Revocable Living Trust 2008	Chevron U.S.A. Inc.	0.14	838/348	n/a	n/a
		Larimore, Rosemarie - SFX	Chevron U.S.A. Inc.	0.14	836/186	n/a	n/a
		Quinn, Patricia - SFX	Chevron U.S.A. Inc.	0.16	834/442	n/a	n/a
		Dennison, Byron G. - SFX	Chevron U.S.A. Inc.	0.18	847/499	n/a	n/a
		Stewart, Janice F. - SFX	Chevron U.S.A. Inc.	0.18	847/594	n/a	n/a
		Woods, Thelma J. - SFX	Chevron U.S.A. Inc.	0.14	847/271	n/a	n/a
		Cunningham, Joann L. - SFX	Chevron U.S.A. Inc.	0.18	847/546	n/a	n/a
		Sumner, Martha - SFX	Chevron U.S.A. Inc.	0.18	894/256	n/a	n/a
		Sypher, William E. - SFX	Chevron U.S.A. Inc.	0.18	847/541	n/a	n/a
		Ensminger, Carolyn J. - SFX	Chevron U.S.A. Inc.	0.18	852/414	n/a	n/a
		Ensminger, Gerald R. - SFX	Chevron U.S.A. Inc.	0.18	848/396	n/a	n/a
		Dennison, Brenda F. - SFX	Chevron U.S.A. Inc.	0.18	859/69	n/a	n/a
		Dennison, Tracee L. - SFX	Chevron U.S.A. Inc.	0.18	848/415	n/a	n/a
		Robinson, Delbert - SFX	Chevron U.S.A. Inc.	0.14	859/27	n/a	n/a
		Manning, Melissa - SFX	Chevron U.S.A. Inc.	0.18	848/457	n/a	n/a
		Parsons, Eileen K. - SFX	Chevron U.S.A. Inc.	0.18	848/424	n/a	n/a
		Cottrell, Aretta - SFX	Chevron U.S.A. Inc.	0.18	852/418	n/a	n/a
		Dennison, Robin - SFX	Chevron U.S.A. Inc.	0.18	858/16	n/a	n/a
		Shaw, Bernard L. - SFX	Chevron U.S.A. Inc.	0.14	897/228	n/a	n/a
		Dennison, Patricia - SFX	Chevron U.S.A. Inc.	0.18	897/583	n/a	n/a
		Harrison, Penny - SFX	Chevron U.S.A. Inc.	0.18	897/586	n/a	n/a
		Dennison, Harold Vaughn Jr.	Chevron U.S.A. Inc.	0.18	897/589	n/a	n/a
		Goldstein, Crystal Marie - SFX	Chevron U.S.A. Inc.	0.14	897/231	n/a	n/a
Mansour, Melissa - SFX	Chevron U.S.A. Inc.	0.14	898/113	n/a	n/a		
Hayes, Alan D. - SFX	Chevron U.S.A. Inc.	0.15	899/264	n/a	n/a		
Dennison, Rick Lane	Fee	-	911/197	n/a	n/a		
Dennison, David A.	Fee	-	911/200	n/a	n/a		
Dennison, Steven W.	Fee	-	911/203	n/a	n/a		
Hart, David Gene	Fee	-	926/429	n/a	n/a		

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Plat ID	Parcel Number	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2
		Kilcoyne, John Michael - SFX	Chevron U.S.A. Inc.	0.20	906/188	n/a	n/a
		Burr, Thomas M. - SFX	Chevron U.S.A. Inc.	0.20	907/21	n/a	n/a
		Manny, Pamela - SFX	Chevron U.S.A. Inc.	0.14	901/401	n/a	n/a
		Nicholson, David M. - SFX	Chevron U.S.A. Inc.	0.14	903/152	n/a	n/a
		Robinson, Jennifer - SFX	Chevron U.S.A. Inc.	0.14	900/70	n/a	n/a
		Cronin, Penelope - SFX	Chevron U.S.A. Inc.	0.14	900/73	n/a	n/a
		Shawley, Patricia - SFX	Chevron U.S.A. Inc.	0.14	902/547	n/a	n/a
		Barthel, Jolene E. - SFX	Chevron U.S.A. Inc.	0.16	902/529	n/a	n/a
		Beck, Louis J. Jr. - SFX	Chevron U.S.A. Inc.	0.14	899/261	n/a	n/a
		Richardson, Debra - SFX	Chevron U.S.A. Inc.	0.18	909/459	n/a	n/a
		Robinson, James - SFX	Chevron U.S.A. Inc.	0.14	898/504	n/a	n/a
		Ensminger, William - SFX	Chevron U.S.A. Inc.	0.14	898/507	n/a	n/a
45	4-2-49	Chaplin Real Estate Co	NPAR, LLC	0.1875	706/396	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a

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02/22/2019

Luke Slagel
Land Representative

December 18, 2018

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

RE: Hicks 15H, 16H, 17H, 18H, 19H

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,

Luke Slagel
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 1426
Luke.Slagel@chevron.com

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

Date of Notice Certification: 12/18/18

API No. 47- _____
Operator's Well No. M16H
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>524109.72</u>
County:	<u>Marshall</u>		Northing:	<u>4413571.33</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Rd/WV-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.

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:		OOG OFFICE USE ONLY
*PLEASE CHECK ALL THAT APPLY		
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input type="checkbox"/> RECEIVED
<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 <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<input type="checkbox"/> RECEIVED

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.

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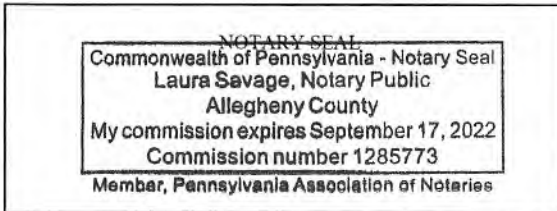
Certification of Notice is hereby given:

THEREFORE, I _____, 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.

Jenny Butchko

Well Operator: Chevron Appalachia, LLC
By: Jenny Butchko
Its: Permitting Team Lead
Telephone: 412-865-1533

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



Commonwealth of Pennsylvania
County of Allegheny
Subscribed and sworn before me this 18th day of December, 2018
Laura Savage Notary Public
My Commission Expires September 17, 2022

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@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: 11/9/18 Date Permit Application Filed: 12/19/18

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 Corp.
Address: 46226 National Road
St. Clairsville, OH 43950

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

Name: See Attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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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 where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

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.**

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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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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

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.

Jenny Buthko

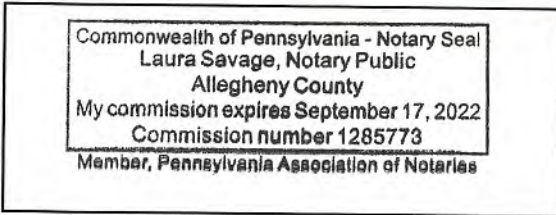
*Commonwealth of Pennsylvania
County of Allegheny*

Subscribed and sworn before me this 20th day of November, 2018.

Laura Savage

Notary Public

My Commission Expires September 17, 2022



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Attachment

API No. 47- _____ - _____

OPERATOR WELL NO. M16H

Well 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: 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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Environmental Protection

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

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

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

Date of Notice: 1/19/18 Date Permit Application Filed: 12/19/18

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

- HAND DELIVERY
 CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

Name: Jeffrey Ryan
Address: 141 Clover Lane
Moundsville, WV 26041

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 524109.72
County: Marshall Northing: 4413571.33
District: Clay Public Road Access: Fork Ridge Rd/WV-17
Quadrangle: Glen Easton, WV 7.5' Generally used farm name: Hicks
Watershed: Middle Grave Creek - Grave Creek

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 700 Cherrington Parkway
Coraopolis, PA 15108
Telephone: 412-865-1533
Email: JZYK@chevron.com
Facsimile: 412-865-2403

Authorized Representative: _____
Address: _____
Telephone: _____
Email: _____
Facsimile: _____

Oil and Gas Privacy Notice:

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

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: 1/19/18 **Date Permit Application Filed:** 12/19/18

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 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>524109.72</u>
County:	<u>Marshall</u>		Northing:	<u>4413571.33</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Rd/WV-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>			

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
Coraopolis, PA 15108
 Facsimile: 412-865-2403

Oil and Gas Privacy Notice:

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

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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, Mason Smith, 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>524109.823</u>
County:	<u>Marshall</u>	Northing:	<u>4413571.256</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road</u>
Quadrangle:	<u>Glen Easton 7.5'</u>	Generally used farm name:	<u>Hicks</u>
Watershed:	<u>Upper Ohio-Beaver</u>		

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

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>Consolidation Coal Company</u></p> <p>By: <u>Mason Smith</u></p> <p>Its: <u>Coal, Oil and Gas Relations Manager</u></p> <p>Signature: </p> <p>Date: <u>08/23/2018</u></p>
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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, 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 _____, 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>524109.72</u>
County:	<u>Marshall</u>		Northing:	<u>4413571.33</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Rd/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.

<p>*Please check the box that applies</p> <p><input checked="" type="checkbox"/> SURFACE OWNER</p> <p><input checked="" type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Kenneth B Tagg</u></p> <p>Print Name: <u>KENNETH B TAGG</u></p> <p>Date: <u>11-25-18</u></p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
---	--

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
DEC 20 2018
WV Department of
Environmental Protection

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

Instructions to Persons Named on Page WW-6A

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

Comment and Waiver Provisions

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

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

VOLUNTARY STATEMENT OF NO OBJECTION

I, Vickie L Pond
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>524109.72</u>
County:	<u>Marshall</u>		Northing:	<u>4413571.33</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Rd/WV-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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p style="text-align: center;">FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>[Signature]</u></p> <p>Print Name: <u>Sidney P or Vickie L Pond</u></p> <p>Date: <u>12-9-18</u></p> <hr/> <p style="text-align: center;">FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
---	---

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our Office of Oil and Gas 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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Office of Oil and Gas
DEC 20 2018
WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Jill M. Newman
Deputy Commissioner

November 1, 2018

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 M16H

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: Nikolai Softcheck
Chevron North America Exploration and Production Company
CH, OM, D-6
File

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DEC 20 2018

WV Department of
Environmental Protection

Hydraulic Fracturing Fluid Additives

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

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Office of Oil and Gas

DEC 20 2018

WV Department of
Environmental Protection

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY



SITE LOCATION MAP
SCALE IN FEET
0 2000 4000

REFERENCE
U.S.G.S. 7.5' TOPOGRAPHIC MAP, BOWSDALE QUADRANGLE, WV-54 DATED: 1969, PHOTOGRAPHIC: 1972 AND 1976.

Clift & Environmental Consultants, Inc.
4600 Temples Lane, Suite 200 - Exeter, PA 17022
717-237-2200 FAX 717-237-9676
www.clift.com



REVISION RECORD

Date	By	Reason
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT

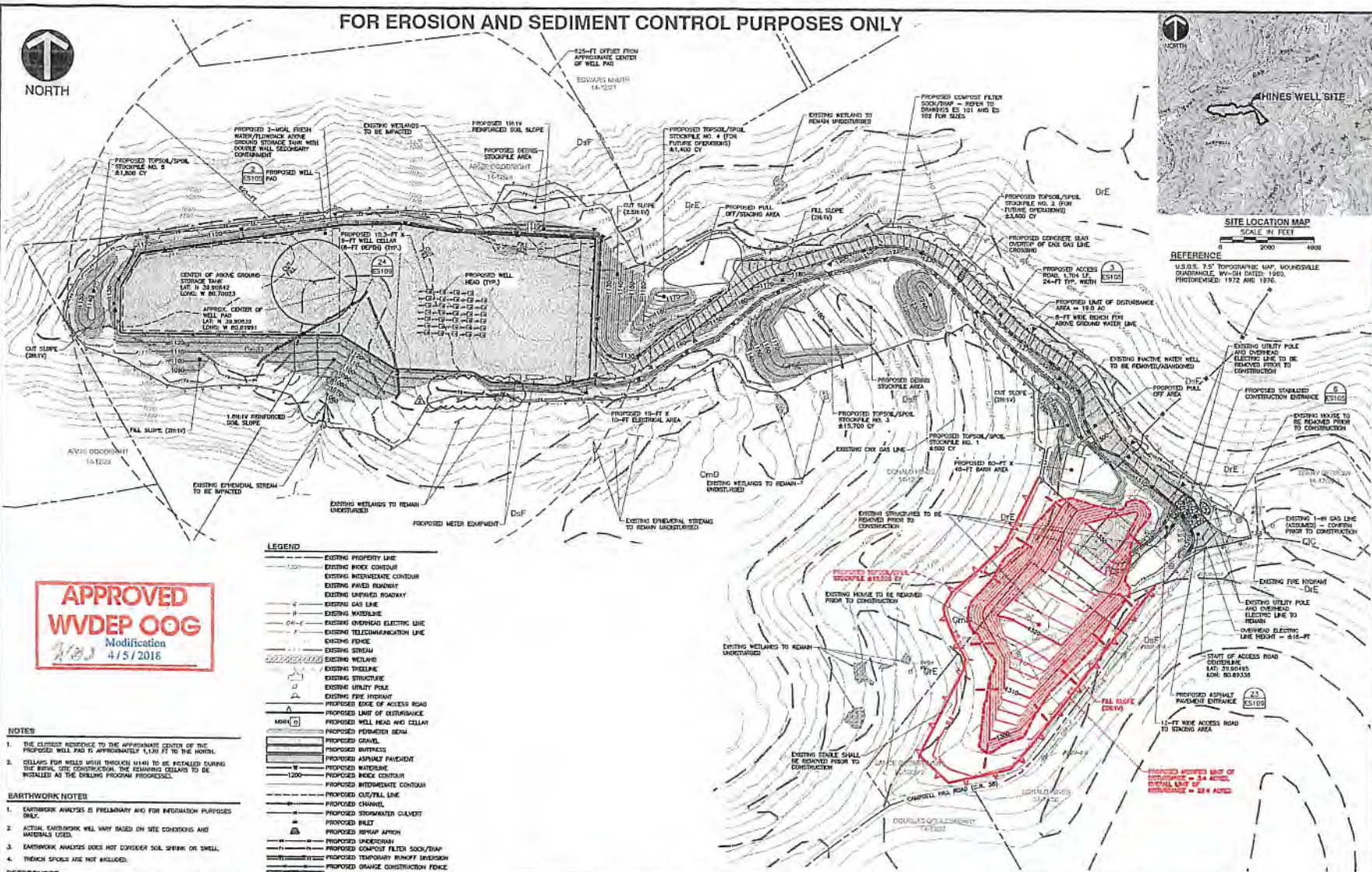
REVISION RECORD

Date	By	Reason
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
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08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT
08/23/18	ES	ISSUE FOR PERMIT

HINES WELL SITE
WASHINGTON DISTRICT
MARSHALL COUNTY, WEST VIRGINIA
PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15473

OVERALL EROSION AND SEDIMENT CONTROL PLAN
Project Number: 18-022040
Drawing Scale: 1"=100'
Date Issued: 08/23/2018
Issue Number: 1.0
Drawn By: JMM
Checked By: JMM
Project Manager: JMM

ES 100



APPROVED WVDEP OOG
Modification
4/5/2018

- LEGEND**
- EXISTING PROPERTY LINE
 - EXISTING ROCK CONTOUR
 - EXISTING INTERMEDIATE CONTOUR
 - EXISTING PAVED ROADWAY
 - EXISTING UNPAVED ROADWAY
 - EXISTING GAS LINE
 - EXISTING WATERLINE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING TELECOMMUNICATION LINE
 - EXISTING FENCE
 - EXISTING CEMETERY
 - EXISTING WETLAND
 - EXISTING TIE LINE
 - EXISTING STRUCTURE
 - EXISTING UTILITY POLE
 - EXISTING FIRE HYDRANT
 - PROPOSED EDGE OF ACCESS ROAD
 - PROPOSED LINE OF DISTURBANCE
 - PROPOSED WELL HEAD AND CELLAR
 - PROPOSED PERIMETER BERM
 - PROPOSED CHANGEL
 - PROPOSED DRIVEWAY
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED WATERLINE
 - PROPOSED ROCK CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - PROPOSED CUT/FILL LINE
 - PROPOSED CHANGEL
 - PROPOSED STOP/WATER CLAVDIT
 - PROPOSED INLET
 - PROPOSED BERM/APRON
 - PROPOSED UNDERDRAIN
 - PROPOSED COMPOST FILTER SOCK/TWY
 - PROPOSED TEMPORARY RUNOFF DIVERSION
 - PROPOSED ORANGE CONSTRUCTION FENCE
 - PROPOSED ROCK CONSTRUCTION ENTRANCE
 - EXISTING SOIL TYPE
 - PROPOSED EROSION CONTROL BLANKET
 - PROPOSED MOORED LIMIT OF DISTURBANCE
 - PROPOSED TIE-WAY
 - PROPOSED TIE-WAY CULVERT STRUCTURE
 - EXISTING HAZARD
 - EXISTING OBSTRUCTION

- NOTES**
1. THE CLOSED RESIDENCE TO THE APPROXIMATE CENTER OF THE PROPOSED WELL PAD IS APPROXIMATELY 1.1 MI TO THE NORTH.
 2. CELLARS FOR WELLS WITH THROUGH SHAFTS TO BE INSTALLED DURING THE SURVEY SITE CONSTRUCTION. THE REMAINING CELLARS TO BE INSTALLED AS THE DRILLING PROGRESS.
- EARTHWORK NOTES**
1. EARTHWORK ANALYSIS IS PRELIMINARY AND FOR INFORMATION PURPOSES ONLY.
 2. ACTUAL EARTHWORK WILL VARY BASED ON SITE CONDITIONS AND MATERIALS USED.
 3. EARTHWORK ANALYSIS DOES NOT CONSIDER SOIL SWELL OR SHRINK.
 4. TREES SHOULD BE NOT REMOVED.
- REFERENCES**
1. TOPOGRAPHY AND PROPERTY INFORMATION PROVIDED BY BLUE MOUNTAIN INC. AERIAL PHOTOGRAPHY DATED 2/31/2014.
 2. UNDERGROUND UTILITIES LOCATED BY A GEOPHYSICAL SURVEY CONDUCTED BY THE EDWARDS INC. DATED 10/15/2014 TO 10/20/2014.
 3. HAZARDOUS UTILITY FEATURES LOCATED BY C&E ENVIRONMENTAL CONSULTANTS, INC. DATED 10/20/2014.
 4. STREAM AND WETLANDS SHOWN ARE PER C&E FIELD OBSERVATION PERFORMED ON 10/18/2014.

Feature	Northing	Easting	Latitude (North)	Longitude (West)
Approx. Center of Well Pad	514841.051	163385.912	39.9049	80.6991
Beginning of Access Road Centerline	514482.028	163226.312	39.9049	80.6926

Well Site Limit of Disturbance: 24 ACRES

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

SCALE IN FEET
0 100 200

FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY

APPROVED
WVDEP OOG
Modification
4/5/2018

LEGEND

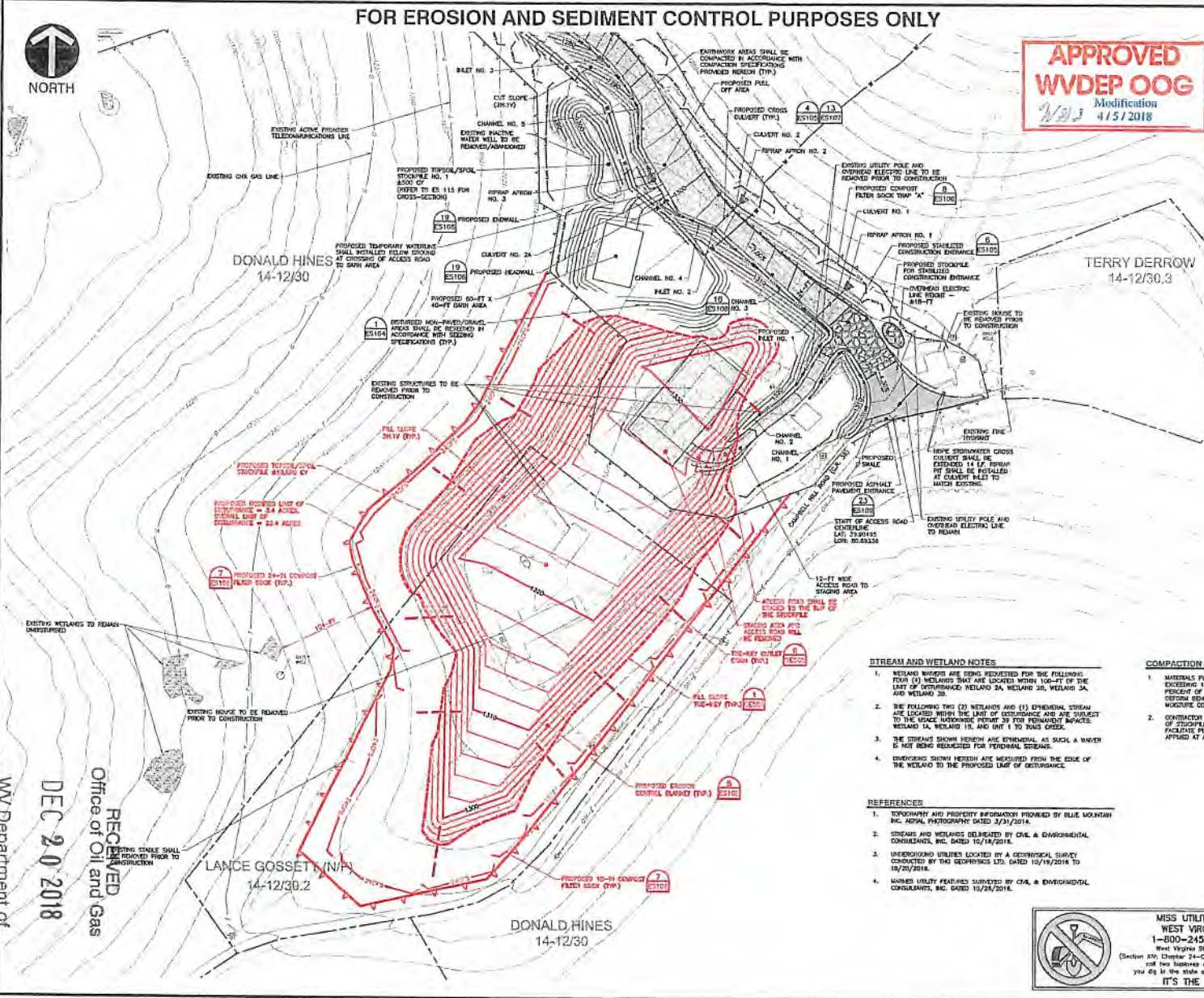
---	EXISTING PROPERTY LINE
---	EXISTING INDEX CONTOUR
---	EXISTING INTERMEDIATE CONTOUR
---	EXISTING PAVED ROADWAY
---	EXISTING UNPAVED ROADWAY
---	EXISTING GAS LINE
---	EXISTING WATERLINE
---	EXISTING OVERHEAD ELECTRIC LINE
---	EXISTING TELECOMMUNICATIONS LINE
---	EXISTING FENCE
---	EXISTING STREAM
---	EXISTING WETLAND
---	EXISTING TIELINE
---	EXISTING STRUCTURE
---	EXISTING UTILITY POLE
---	EXISTING FIRE HYDRANT
---	PROPOSED EDGE OF ACCESS ROAD
---	PROPOSED LIMIT OF DISTURBANCE
---	PROPOSED WELL HEAD AND CELLAR
---	PROPOSED FERTILIZER BERM
---	PROPOSED GRAVEL
---	PROPOSED BUILTUP
---	PROPOSED ASPHALT PAVEMENT
---	PROPOSED WETLINE
---	PROPOSED ROCK CONTOUR
---	PROPOSED INTERMEDIATE CONTOUR
---	PROPOSED CUT/FILL LINE
---	PROPOSED SPOT ELEVATION
---	PROPOSED CHANNEL
---	PROPOSED STORMWATER CHANIT
---	PROPOSED BALET
---	PROPOSED REPAIR APRON
---	PROPOSED UNDERDRAIN
---	PROPOSED COMPOST FILTER SOCK TRAP
---	PROPOSED 18-IN COMPOST FILTER SOCK
---	PROPOSED 24-IN COMPOST FILTER SOCK
---	PROPOSED 32-IN COMPOST FILTER SOCK
---	PROPOSED TEMPORARY FLIGHT DIVERSION
---	PROPOSED CHANGE CONSTRUCTION FENCE
---	PROPOSED ROCK CONSTRUCTION ENTRANCE
---	PROPOSED BALET PROTECTION
---	PROPOSED EROSION CONTROL BLANKET
---	PROPOSED MODIFIED LIMIT OF DISTURBANCE
---	PROPOSED TIE-KEY
---	TIE-KEY OUTLET DRING
---	CEGAL NUMBER
---	GRANITE DESIGNATION

Civil & Environmental Consultants, Inc.
1600 Triangle Lane, Suite 200 - Export, PA 15622
724-277-4200 - 800-899-3810
www.cecinc.com



REVISION RECORD

Date	By	Reason
01/15/18	CEG	ISSUED FOR PERMIT
02/15/18	CEG	ISSUED FOR PERMIT
03/15/18	CEG	ISSUED FOR PERMIT
04/15/18	CEG	ISSUED FOR PERMIT
05/15/18	CEG	ISSUED FOR PERMIT
06/15/18	CEG	ISSUED FOR PERMIT
07/15/18	CEG	ISSUED FOR PERMIT
08/15/18	CEG	ISSUED FOR PERMIT
09/15/18	CEG	ISSUED FOR PERMIT
10/15/18	CEG	ISSUED FOR PERMIT
11/15/18	CEG	ISSUED FOR PERMIT
12/15/18	CEG	ISSUED FOR PERMIT



STREAM AND WETLAND NOTES

1. WETLAND BOUNDARIES ARE BEING REDEFINED FOR THE FOLLOWING: FROM (1) WETLANDS THAT ARE LOCATED WITHIN 100-FT OF THE LIMIT OF DISTURBANCE WETLAND 2A, WETLAND 2B, WETLAND 2A, AND WETLAND 2B.
2. THE FOLLOWING TWO (2) WETLANDS AND (1) Ephemeral Stream ARE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND ARE SUBJECT TO THE WACE WETLANDS PERMIT 39 FOR PERMANENT IMPACT: WETLAND 1A, WETLAND 1B, AND UNIT 1 TO TONG CREEK.
3. THE STREAM SHOWN HEREIN ARE Ephemeral AS SUCH A WATER IS NOT BEING REQUESTED FOR PERMANENT STREAMS.
4. DIMENSIONS SHOWN HEREIN ARE MEASURED FROM THE EDGE OF THE WETLAND TO THE PROPOSED LIMIT OF DISTURBANCE.

REFERENCES

1. TOPOGRAPHY AND PROPERTY INFORMATION PROVIDED BY BLUE MOUNTAIN INC. AERIAL PHOTOGRAPHIC DATED 3/21/2014.
2. STREAMS AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/18/2016.
3. UNDERGROUND UTILITIES LOCATED BY A GEOTECHNICAL SURVEY CONDUCTED BY THE GEOTECHNICAL LTD. DATED 10/19/2014 TO 10/25/2014.
4. MARKED UTILITY FEATURES SURVEYED BY CIA & ENVIRONMENTAL CONSULTANTS, INC. DATED 10/28/2014.

COMPACTION SPECIFICATIONS

1. MATERIALS PLACED IN THE PERMANENT SPILL PILES SHALL BE PLACED IN LIFTS NOT EXCEEDING 18 INCHES THICK. SHALL NOT BE EXCEEDED WET DENSITY WITHIN A 2 PERCENT OF THE OPTIMAL WET DENSITY CONTROL AND SHALL NOT EXCEED OPTIMAL DENSITY THE WEIGHT OF CONSTRUCTION EQUIPMENT DURING PLACEMENT. MOISTURE CONTENT OF SPILL MATERIALS MAY BE REQUIRED.
2. CONTRACTOR SHALL ASSUME FOR PLACING PURPOSES APPROXIMATELY 10 PERCENT OF STOCKPILE MATERIAL WILL NEED GROUND, OR TREATED WITH LIME OR CEMENT TO FACILITATE PLACEMENT. CONSTRUCTION SHALL ASSUME LIME OR CEMENT SHOULD BE APPLIED AT A RATE OF 5 PERCENT BY WEIGHT.

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

HINES WELL SITE
WASHINGTON DISTRICT
JACKSONVILLE COUNTY, WEST VIRGINIA
PROPOSED FOR
CHEVRON APPALACHIA, LLC
880 MOUNTAIN VIEW DRIVE
SOUTHFIELD, PA 15478

MAJOR MOD. EROSION AND SEDIMENT CONTROL PLAN
Project Number: 154535049
Drawing Date: 12/20/18
Date Issued: 02/28/2019
Issue Number:
Drawn By: JGB
Checked By: JGB
Print Manager: JGB

ES 101A

WV Department of
Office of Oil and Gas
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